

7 North Dixie Highway Lake Worth Beach, FL 33460 **561.586.1600**

AGENDA CITY OF LAKE WORTH BEACH ELECTRIC UTILITY CITY COMMISSION MEETING CITY HALL COMMISSION CHAMBER TUESDAY, NOVEMBER 30, 2021 - 6:00 PM

ROLL CALL:

PLEDGE OF ALLEGIANCE: led by Commissioner Kimberly Stokes

AGENDA - Additions / Deletions / Reordering:

PRESENTATIONS: (there is no public comment on Presentation items)

- A. Community Solar Presentation by Katie Chiles Ottenweller
- B. <u>An Industry Perspective on Community Solar presented by Brion Fitzgerald and Eric</u> <u>Misbach of NexAmp</u>

PUBLIC PARTICIPATION OF NON-AGENDAED ITEMS AND CONSENT AGENDA:

APPROVAL OF MINUTES:

A. <u>October 26, 2021</u>

UNFINISHED BUSINESS:

- A. <u>Change in the Convenience Fee model to include all customer payments made using</u> <u>the Paymentus Payment Portal</u>
- B. Establishing new Electric Utility Rates and Charges to be Effective on either January 1, 2022 or April 1, 2022

NEW BUSINESS:

- A. <u>Eighth Amendment to the Professional Services Agreement with Vantage Services</u> <u>Consulting LLC</u>
- B. <u>Task Order No. 10 with E.C. Fennell, PA., for Distribution System Planning services</u> for the 6th Avenue Substation Circuits and Southeast Quadrant of the City's Electrical <u>Service Area</u>
- C. Agreement for Call Center Support Services with ENCO Utility Services, LLC
- D. <u>Second Amendment to Agreement with G&W Electric Company for the purchase of</u> <u>38kV Reclosers</u>
- E. <u>Second Amendment to Agreement with ABB Inc. for the purchase of magnetically</u> <u>actuated 38kV vacuum circuit breakers</u>
- F. <u>Agreement with Trench Limited for the purchase of 138kV Coupling Capacitor Voltage</u> <u>Transformers</u>

ADJOURNMENT:

The City Commission has adopted Rules of Decorum for Citizen Participation (See Resolution No. 25-2021). The Rules of Decorum are posted within the City Hall Chambers, City Hall Conference Room, posted online at: https://lakeworthbeachfl.gov/government/virtual-meetings/, and available through the City Clerk's office. Compliance with the Rules of Decorum is expected and appreciated.

If a person decides to appeal any decision made by the board, agency or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. (F.S. 286.0105)

Community Solar

Katie Chiles Ottenweller Southeast Director katie@votesolar.org

November 2021



VOTE SOLAR

Energy U.S. Utility Solar PPA Prices versus Average Natural Gas Prices, \$/MWh



VOTE SOLAR

Levelized Cost of Energy Comparison—Unsubsidized Analysis

Selected renewable energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances



Americans Want Solar. Overwhelmingly.



» 89% of Americans favor expanding solar as an energy source

(2018) <u>Pew Research Center</u>

- » Strong bipartisan support for increased use of solar
- » 71% of Americans support increasing reliance on renewable energy (2018) <u>Pew Research Center</u>
- » Interest in community solar soars from 14% to 47% when people learn about it (2016) <u>SEPA Report</u>

U.S. Community Solar Nears 1 GW of Total Capacity Operating Nationwide



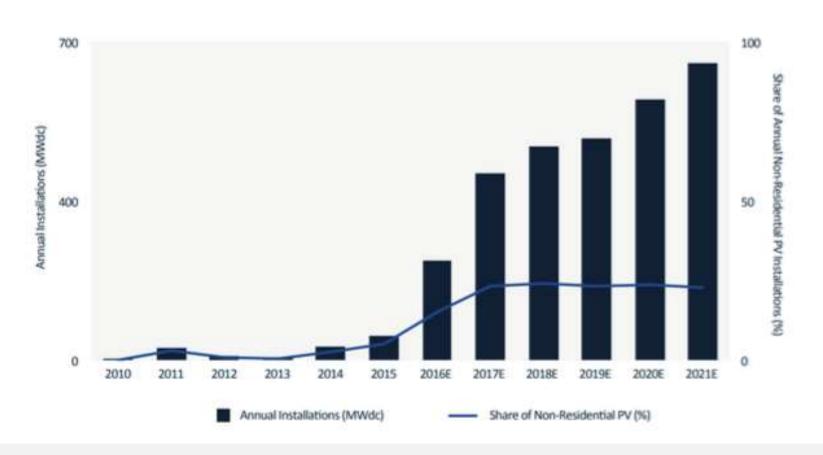
Cumulative U.S. Community Solar Installed Capacity

U.S. community solar is growing at a quicker pace than the overall U.S. solar deployments

Driven in large part by policy commitments in Minnesota and Massachusetts, new deployments of community solar have grown at a rapid pace, achieving a five-year compound annual growth rate of 53% (vs. 26% for all solar).

Still, community solar represents less than 2% of all operating U.S. solar to date. As we explore further, most barriers to community solar stem from program design and market maturity rather than the inherent model.

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Source: GTM Research Wood Mackenzie

Ownership Options



- » **Third-party owned:** A developer owns a project and allows participation on a voluntary basis. Third-party owned projects are typically only allowed in states that have created a statewide community solar program.
- » Utility-owned: A utility owns a community solar project and allows participation on a voluntary basis. Utilities are able to create their own community solar program on a voluntary basis, or can be required to do-so through a statewide community solar program.
- » **Community-owned:** In a community-owned solar projects, individuals, nonprofits, and other community-based organizations can come together to own a community-solar facility.

But Access to On-Site Solar is Limited



150,000 customer-sited solar energy systems by the end of 2010

2 million customer-sited solar energy systems by the end of 2018

36 million to 74 million residences and businesses without solar but suitable for onsite solar

75 million to 113 million households and businesses without onsite solar access

The Solution: Community Solar



What is community solar? Community solar refers to local solar arrays shared by individual community members, who receive credits on their electricity bills for their portion of the power produced.





Community Solar 101



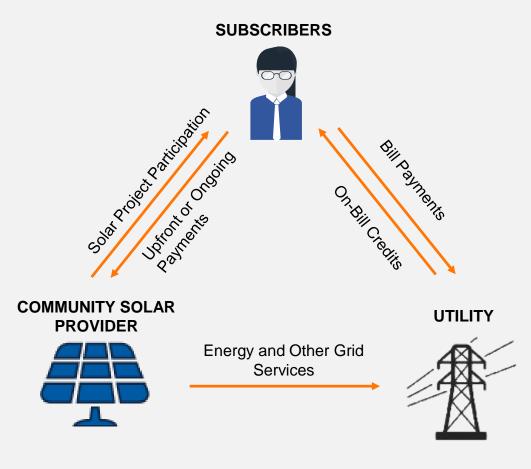
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Defining Community Solar

Over the years, many projects have been labeled community solar, but we define community solar as a solar project with multiple subscribers that receive on bill benefits directly attributable to the community solar project.

- Subscribers receive a credit on their electric bill for their share in a community solar
- Subscribers must be tied to a specific solar project





VOTE SOLAR



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Community Solar Guiding Principles



- » Develop new solar assets
- » Expand consumer access
- » Offer tangible economic benefits
- » Put consumers first
- » Promote fair market competition
- » Complement existing programs





How do community solar customers pay for their clean energy?

Participants can subscribe to a portion of a local community solar facility and get a share of the electricity that system produces. There are generally two ways to sign up:

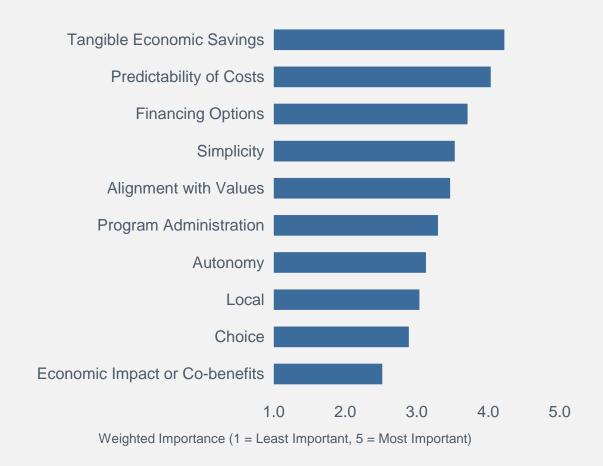
- 1. Upfront per-panel payment: This model allows participants to pay a one-time fee for panels that make up part of a larger solar project. In exchange, participants receive all of the electricity produced by their panels (or share) and see that as a credit on their normal electricity bill.
- 2. Ongoing "pay-as-you-go" subscription payment: This model eliminates the upfront cost to going solar. It allows individuals to pay a lower price for the electricity they receive from a community solar facility. The end result is a percent-reduction in a customers monthly electricity expenditures.

The "pay as you go" subscription option is becoming the dominant model, and as community solar continues to scale, the product offerings are becoming more and more user friendly -- with the goal of becoming as easy as ordering a product on amazon, or purchasing Netflix or Direct TV.

Community Solar Subscribers Value a Breadth of Financial and Non-Financial Benefits



Average Score to "Rate the Importance of the Following Attributes to You / Customer Constituencies You Work With"—All Subscriber Segments



From a survey of over two dozen community solar operators and subscriber organizations, we find that:

Community solar economics are important...

- » Subscribers overwhelmingly chose community solar due to financial options and benefits:
 - Over 60% of responses ranked "tangible economic savings" as the most important factor of a community solar subscription
 - The second and third most important factors were, respectively, a predictable cost of electricity and compelling finance options (e.g., zerodown leases and pay-as-you-go models)

...but non-financial benefits need to be included

- Simplicity is the highest rated non-financial benefit identified, referencing an easy-to-subscribe and intuitive process to procure solar energy
- Subscribers also care about *who* is administering the program, meaning trust is important. But that can mean local organizations, private developers or a local utility, depending on the party.
- While subscribers may not universally value economic co-benefits highly (e.g., workforce development), other stakeholders, such as community leaders, policymakers and regulators, will.

Community Solar 101

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The roof may be too

shaded or will need



A homeowner may be restricted from installing solar by their homeowners association



Renters may be prohibited from installing solar on the property



Drives private investment into a state



Some commercial buildings have equipment on the roof, obstructing an installation



The customer is not eligible for standard financing solutions

VOTE SOLAR



Creates local, well-paying



Creates new local property tax revenues



The size, type, or orientation of the roof may be improper for on-site solar



A homeowner or business is concerned about maintaining their rooftop system



A homeowner is planning to move in the near to mid-future

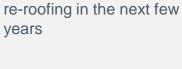


An affordable housing property owner cannot provide on-site solar energy to multiple individually-metered tenants



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Multi-tenant dwellings or businesses may not own their rooftop





solar jobs

Why Choose Community Solar?



Customer Benefits

- » Equal Access: Gives <u>ALL</u> consumers equal access to solar energy, regardless of housing type or income level.
- Tangible Economic Savings: Customers should save money on their electric utility bill, and receive stable energy bills and predictable energy prices
- » Hassle free clean energy: Customers can sign up to participate in a community solar project without having to worry about on-site contractors, permits, or maintenance.
- Flexibility: Community solar allows customers to move within the utility territory and still retain their participation in the community solar project, making it an easy, portable energy solution.

Why Choose Community Solar?



Socio-Economic Benefits

- » **New investments:** Economic development strategy that spurs new development and impacts local economies.
- » **Job creation:** Local workers gain new employment opportunities and in some cases, job training.
- » Economies of scale: Larger projects provide a lower cost per watt than other types of solar projects.
- » Energy burden: Low-income families, households of color, multifamily and renting households spend a much larger percentage of their income on energy bills than the average family.
- » Community engagement and ownership: Community involvement, ownership and participation in local solar

Why Choose Community Solar?



Grid and Environmental Benefits

- » Environmental goals: Community solar allows multiple people to benefit from clean energy, helping to expedite the transition away from fossil fuel.
- » Local and Resilient Grid Resource: community solar is clean and reliable resource located directly within communities, with opportunities to pair with community storage solutions

Community Solar: BARC Electric Cooperative



16,000,000 kWhs 180 Homes / 25 Businesses

11,000 Metric Tons of CO2 Avoided



BARC Electric Cooperative Community Solar

\$1.3 million project

3 acres

20 Years

www.barcelectric.com

Subscribe up to 25% of your energy needs Fix a quarter of your electric bill for the next 20 years for just \$1 per block more than you pay today. For the average BARC customer, that is just \$5 more per month.

> By subscribing you are also supporting future growth. A portion of the revenue from every subscription will be set aside for project expansion.

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Community Solar 101

Resources



- » Interstate Renewable Energy Council Guiding Principles:
 - > <u>http://www.irecusa.org/publications/guiding-principles-for-shared-renewable-energy-programs/</u>
- » Coalition for Community Solar Access Resource and Policy Decision Matrix:
 - > <u>http://www.communitysolaraccess.org/wp-content/uploads/2016/03/CCSA-Policy-Decision-Matrix-Final-11-15-2016.pdf</u>
- » Low Income Solar Policy Guide, Community Solar
 - > <u>http://www.lowincomesolar.org/practices/community-solar/</u>
- » Shared Renewables HQ
 - > <u>http://www.sharedrenewables.org/</u>

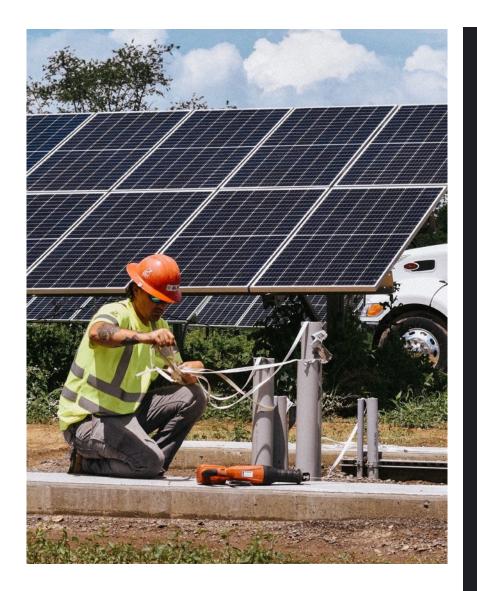
nexamp

Revolutionizing the future of clean energy.

We're making decarbonization easy and accessible for generations to come.

NEXAMP.COM

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Get To Know Us

Nexamp is harnessing positive power and funneling it back into communities across the country, maximizing our social and environmental impact daily.

- National company headquartered in Boston •
- Vertically integrated solar energy and storage company
- Develop, manage, and maintain community solar farms nationally •
- Lead with inclusivity and equity



😡 OUR OFFICES



O U R M I S S I O N

Experienced Problem Solvers

Will Thomas and Dan Leary returned from active duty in the Middle East with a plan to alleviate America's dependency on foreign resources.

- Founded Nexamp in 2007, with now over 300 employees
- Provide a range of residential and commercial energy solutions
- Ensure equity, accessibility, and transparency through vertically integrated model

) employees al energy solutions y through vertically integrated

The Nexamp Way

We are a vertically integrated organization that manages each phase of the project to ensure total awareness and understanding.

- •Operations
- •Maintenance
- •Finance
- •Distribution
- •Storage





Dedicated Developers

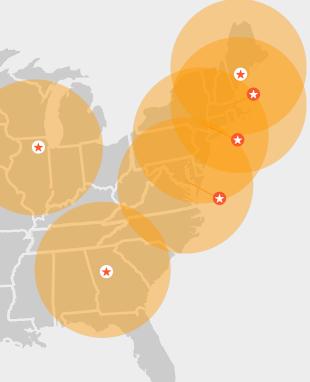
We take pride in catering to everyone. Whether you'd like to turn your rooftop into revenue or land into a reliable source of power, Nexamp makes it easy.

- Individual landowners
- Renters
- Municipalities
- Commercial buildings











C O M M U N I T Y S O L A R

Community Solar Farms

We're lowering barriers and unlocking clean energy for communities across the country. We believe that access to clean energy is a right, not a privilege, and are committed to making solar power flexible and accessible to all.

- ✓ No rooftop panels
- $\checkmark\,$ No upfront cost
- ✓ No credit checks
- $\checkmark\,$ No long-term contracts
- $\checkmark\,$ No need to own your home
- $\checkmark\,$ Savings for everyone





OUR COMMUNITY SOLAR REVIEWS

Building trust, one review at a time.

Thousands of Nexamp community solar customers are supporting solar in their local communities. We make it easy for anyone to tap into clean energy, and we want to share that opportunity with communities and businesses across the country, no matter their background.

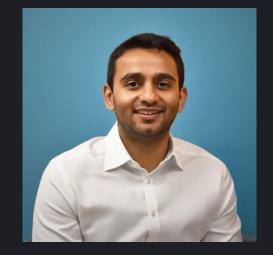
Nexamp believes that everyone should have access to clean energy.

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Hear what our customers have to say about us.



ALDO & ELAINE "The sign up was easy. The flexibility is fantastic."



RYAN - GIRI HOTELS "We really love working with Nexamp because [it] really is a win-win scenario and that's what we look for in a company.."







DAN & MARILYN

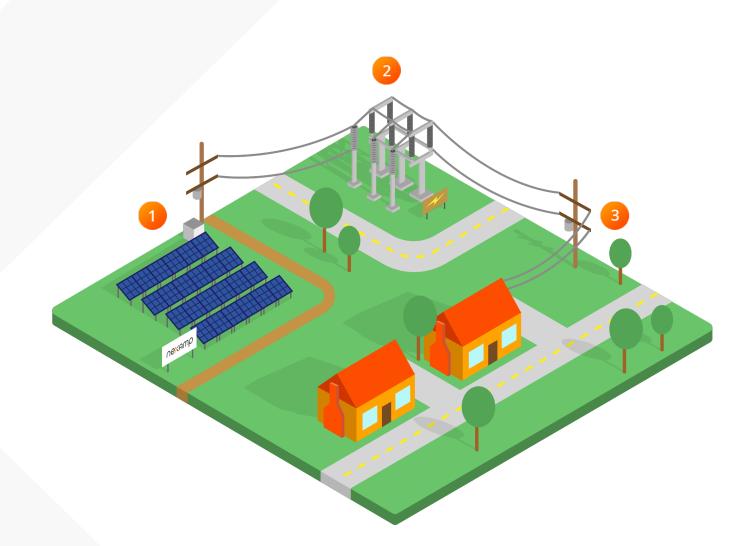
"There's no maintenance for us. We don't have to worry about anything."



COMMUNITY SOLAR HOWIT WORKS

How it Works

We get solar from 93 million miles away. If you're eligible, we make it easy to get it from a solar farm near you.

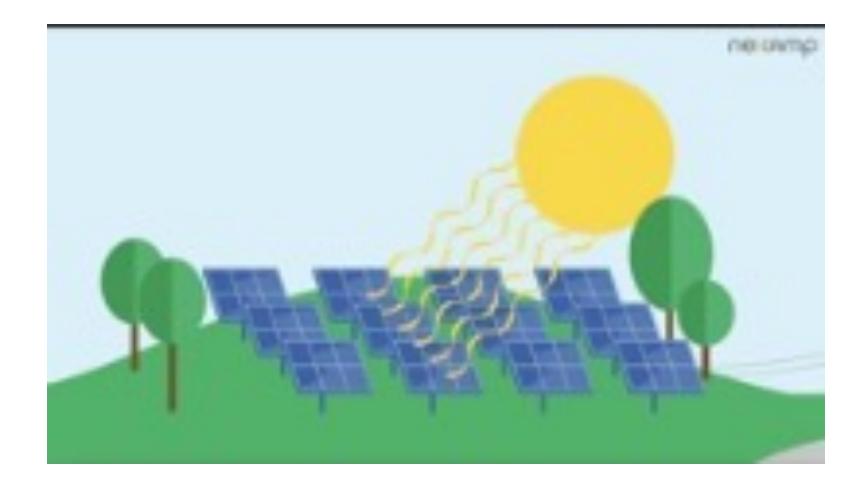


You and your neighbors subscribe to a share of one of our solar farms in your state. The solar farm feeds clean power into your community's electric grid while earning energy credits for you.



You purchase these energy credits at a discount, reducing your electricity costs,

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That's it. Easy, right?

No catch. No hidden fees. Just a smart way to reduce your electric bills and do right by your home and community.

COMMUNITY SOLAR BILLING

Your Power Bill + Nexamp Bill

Your current bill

Delivery Charges Customer Charge (Flat Fee)......\$8

Distribution & Various Charges (per kWh)......\$60

Supply Charges

Standard Service & Transmission Charges (per kWh)......\$40

Total Electric Charges.....\$108

Your utility bill with Nexamp

Customer Charge (Flat Fee)......\$8

Delivery Charges

Distribution & Various Charges (per kWh)......\$60

Supply Charges

Standard Ser	vice & Transmission
Charges (per	kWh)\$40

Solar Credits.....-(\$100)

Total Electric Charges.....\$8



Your new Nexamp bill



COMMUNITY SOLAR BILLING

Sample Nexamp Invoice

Current Invoice Total: \$67.02 Prev		Previo	us Account Balance: \$0.0	0	Total Account Balance:	
Bill To:					TOTA	
	Doe treet Rd ury, MD 2180	4			56 DUE 09/1	
Utility	Production P	eriod	Utility Account Info	Solar Energy Credit	Discount on Solar Credits	A D
Delmarva Power	6/5/2017 to 7/5/2017		04033-12345 44 Address Lane Salisbury, MD	\$74.47	10%	\$6
				Current	Invoice Total	\$6
	Lifetir	ne Sav	ings	~		
	(+)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		M		
	\$305 Value of Credits urchased to Date	10% Savings Rate	5295 Savings to Date	CO, Emissions	155 Equivalent Trees Planted	

I have no credits on my utility bill. What do I do?

If there are credits missing from your utility bill, your utility bill was likely generated before the utility was able to transfer the credits. Customers have two options: I) check your online utility bill, your utility bill was likely generated before the utility was able to transfer the credits. Customers have two next utility bill to confirm the transfer of credits. Please feel free to hold off on paying your Nexamp invoice until you have confirmed the transfer of credits to your account – we do not want our customers paying for credits they have not seen!

Does this change my relationship with the utility?

Not at all; the utility delivers electricity to your home as usual, and will continue to service all equipment and resolve all power outages. Nexamp will handle all communication with your utility regarding your enrollment in community solar. If there are any remaining charges after the Nexamp credits are applied to your utility bill, you are responsible for paying that amount to the utility.

When is it important to contact Nexamp?

If at any point you intend to move or change the details of your utility account, we need to hear from you as soon as possible! We have minimal visibility into your utility account, and therefore we rely on the customer to inform us of any impending changes that might disrupt your crediting service.





Community Approved

We're a long-term partner that's focused on making your community stronger.

- Solar Power World Top Solar Contractors
 9 Years Running
- Transparent ally in every phase
- Pursuing opportunities in low-and-moderate communities
- Friendly with local utilities



Land is acquired and assessed



Our engineers plan for the optimal solar farm design



Project is connected to the grid



Construction of solar farm begins



Constant updates given to customers during construction



Customers begin to see benefits, with added environmental benefits such as our solar grazing program



Asset Management



- We provide resiliency to the grid and can optimize the performance of your solar facilities. Our goal is to increase efficiency and cut costs for commercial customers.
- Involved in every phase
- Provide energy insights
- Offering a long-term partnership



hase ights n partnership OUR DEVELOPMENT REVIEWS

Building trust, one project at a time.

We have been meeting the demand for more clean energy for close to two decades, achieving growth across all business units.

66

Hear what our customers have to say about us.



OFFTAKER

"Community solar at this scale allows Walmart to play a direct role in spurring economic development in the communities we serve and reinforces our goal to spark collective climate action."

Mark Vanderhelm

Vice President, Energy and Facilities Management at Walmart"



Corporate Energy Solutions

From local governments and colleges to the world's largest retailers, Nexamp makes the process of reducing energy costs and achieving sustainability objectives easy for commercial users of all sizes

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...The opportunity to participate in the Nexamp community solar program fits perfectly with our long-term sustainability goals as an organization. By offsetting more of our energy consumption with clean energy, we are expanding our Green Initiative and making even more of an impact."

-Gary Kuchyt, Manager of Energy & Sustainability, Big Y

Walmark

X BerkshireBank











wheaton colleae nassãchusetts





WE′RE ΝΕΧΑΜΡ

The Team

Every day we strive to be fair and inclusive, embracing diversity at every turn. It's our mission to be the change we wish to see in the greater renewable energy space.

- 200% employee growth in the last 3 years ٠
- 80% diversity at C-Suite level ٠
- Named Boston Business Journal Best Places to • Work
- Trust Pilot Excellent, BBB A+ rating Solar Power World: Top Solar Developer •



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THE Achieving growth across all business units.

Community Solar a growing customer base of:





average annual savings per community solar customer

1,700⁺ eacres of solar farms

being produced on all Nexamp farms









OUR COMMITMENTS

Our commitment to our environment and introducing sustainable practices has no boundaries.

We are committed to:

- Offering sheep grazing on 28 of our projects to progressively improve the land by fostering a lower emissions impact on clean energy maintenance.
- Featuring 10+ sites that are National Wildlife Habitats
- Being carbon neutral by 2022, with our supply chain carbon neutral by 2030.
- Recycling all solar panels as they are decommissioned by 2022.
- Transitioning our entire fleet to all electric by 2025.

- near future.
- requirements.
- supply chain.
- sites.



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Piloting programs to deliver zero construction waste to landfills in the

Delivering on sustainable land use while following local, state and federal

Ensuring safe conditions, ethical treatment and fair labor practices throughout our business and global

Creating partnership opportunities for education and technical experience in our host communities.

Native pollinator vegetation on select



















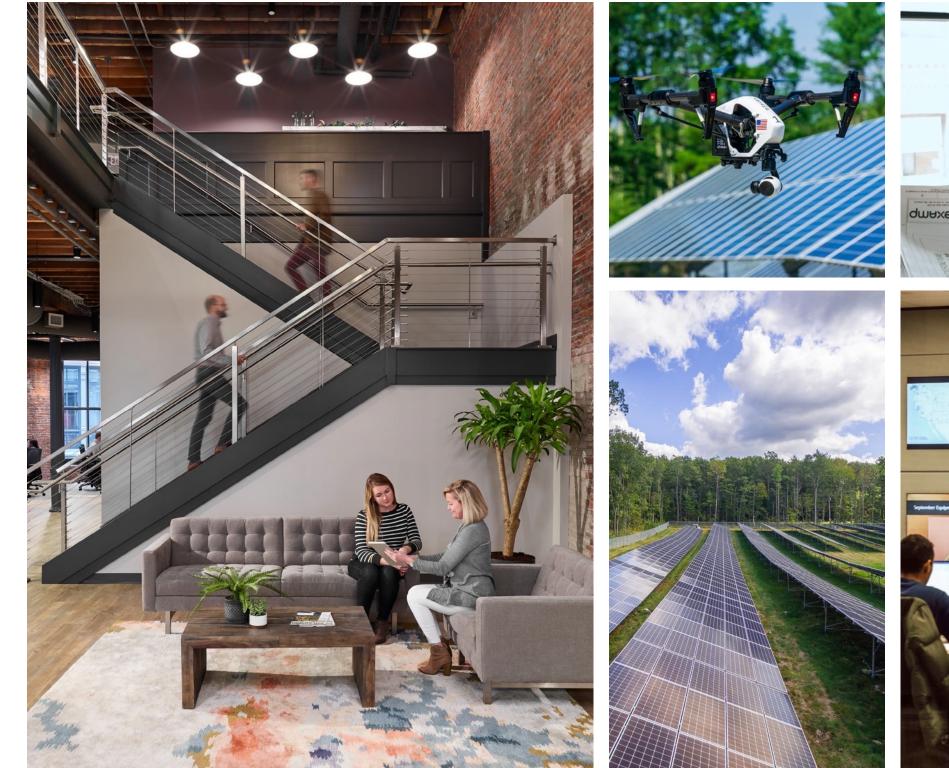




















MINUTES CITY OF LAKE WORTH BEACH ELECTRIC UTILITY CITY COMMISSION MEETING CITY HALL COMMISSION CHAMBER TUESDAY, OCTOBER 26, 2021 - 6:00 PM

The meeting was called to order by Mayor Resch on the above date at 6:10 PM in the City Commission Chamber located at City Hall, 7 North Dixie Highway, Lake Worth Beach, Florida.

<u>ROLL CALL</u>: (0:09) Present were Mayor Betty Resch; Vice Mayor Herman Robinson and Commissioners Christopher McVoy and Kimberly Stokes. Also present were Interim City Manager Juan Ruiz, City Attorney Christy L. Goddeau and City Clerk Melissa Ann Coyne. Commissioner Sarah Malega was absent.

PLEDGE OF ALLEGIANCE: (0:34) led by Commissioner Kimberly Stokes.

AGENDA - Additions/Deletions/Reordering: (0:54)

New Business D, First Amendment to Task Order No. 9 with E.C. Fennell, PA., for additional engineering design services for 6th Avenue Substation PB&Z Package, was added to the agenda. New Business A, Resolution No. 74-2021 – establishing the new Electric Utility Rates and Charges effective April 1, 2022 was deleted from the agenda.

- Action: Motion made by Commissioner McVoy and seconded by Commissioner Stokes to approve the agenda as amended.
- **Vote:** Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioners McVoy and Stokes. NAYS: None. ABSENT: Commissioner Malega.

PUBLIC PARTICIPATION OF NON-AGENDAED ITEMS AND CONSENT AGENDA:

APPROVAL OF MINUTES: (19:42)

Action: Motion made by Vice Mayor Robinson and seconded by Commissioner Stokes to approve the following minutes:

A. September 28, 2021

Vote: Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioners McVoy and Stokes. NAYS: None. ABSENT: Commissioner Malega.

<u>CONSENT AGENDA</u>: (public comment allowed during Public Participation of Non-Agendaed items)

There were no Consent Agenda items on the agenda.

PUBLIC HEARINGS:

Pg. 2, Electric Utility Meeting, October 26, 2021

There were no Public Hearings on the agenda. **UNFINISHED BUSINESS:**

There were no Unfinished Business items on the agenda.

NEW BUSINESS:

A. (deleted) Resolution No. 74-2021 – establishing the new Electric Utility Rates and Charges effective April 1, 2022 (2:21)

City Attorney Goddeau did not read the resolution.

RESOLUTION NO. 74-2021 OF THE CITY OF LAKE WORTH BEACH, FLORIDA, PROVIDING FOR RATES, FEES AND CHARGES, AND REGULATIONS FOR ALL ELECTRICITY SOLD BY THE CITY OF LAKE WORTH BEACH, FLORIDA FOR USE OF ELECTRIC LIGHT AND POWER SYSTEM; REPEALING ALL RESOLUTIONS IN CONFLICT HEREWITH; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE

B. (public comments were read, then the item was tabled) Resolution No. 75-2021 -- establishing an In Community Solar Program (35:30)

City Attorney Goddeau did not read the resolution.

RESOLUTION NO. 75-2021 OF THE CITY OF LAKE WORTH BEACH, FLORIDA, DIRECTING ITS MUNICIPALLY OWNED UTILITY TO IMPLEMENT AN "IN COMMUNITY SOLAR PROGRAM"; AND PROVIDING FOR AN EFFECTIVE DATE

- Action: Consensus for Commissioner McVoy to bring a presentation on Community Solar Programs to the next Electric Utility Commission Meeting on November 30, 2021.
- Action: Motion made by Commissioner Stokes and seconded by Vice Mayor Robinson to table Resolution No. 75-2021 -- establishing an In Community Solar Program to the next Electric Utility Commission Meeting on November 30, 2021.
- **Vote:** Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioner Stokes. NAYS: Commissioner McVoy. ABSENT: Commissioner Malega.
 - C. Resolution No. 76-2021 -- requesting development of an energy conservation and energy efficiency program (41:33)

City Attorney Goddeau did not read the resolution.

RESOLUTION NO. 76-2021 OF THE CITY OF LAKE WORTH BEACH, FLORIDA, DIRECTING ITS ELECTRIC UTILITY ADVISORY BOARD TO DEVELOP AN ENERGY CONSERVATION PROGRAM FOR ITS ELECTRIC UTILITY; AND PROVIDING FOR AN EFFECTIVE DATE

Action: Motion made by Commissioner McVoy and seconded by Commissioner Stokes to approve

Resolution No. 76-2021 -- requesting development of an energy conservation and energy efficiency program.

- **Vote:** Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioners McVoy and Stokes. NAYS: None. ABSENT: Commissioner Malega.
 - D. (added) First Amendment to Task Order No. 9 with E.C. Fennell, PA., for additional engineering design services for 6th Avenue Substation PB&Z Package (1:14:17)
- Action: Motion made by Commissioner McVoy and seconded by Vice Mayor Robinson to approve the First Amendment to Task Order No. 9 with E.C. Fennell, PA., for additional engineering design services for 6th Avenue Substation PB&Z Package.
- **Vote:** Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioners McVoy and Stokes. NAYS: None. ABSENT: Commissioner Malega.

ADJOURNMENT: (1:15:03)

- Action: Motion made by Vice Mayor Robinson and seconded by Commissioner McVoy to adjourn the meeting at 7:25 PM.
- **Vote:** Voice vote showed: AYES: Mayor Resch, Vice Mayor Robinson and Commissioners McVoy and Stokes. NAYS: None. ABSENT: Commissioner Malega.

ATTEST:

Betty Resch, Mayor

Melissa Ann Coyne, City Clerk

Minutes Approved: November 30, 2021

Item time stamps refer to the recording of the meeting which is available on YouTube.

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Change in the Convenience Fee model to include all customer payments made using the Paymentus Payment Portal

SUMMARY:

On June 29th, 2021, Amendment #2 to the contract with Paymentus Corporation was approved by the City Commission in order to change the responsibility for payment of fees from an Absorbed Fee Model (under which fees are paid by the City) to a Convenience Fee Model (under which fees are paid by the customer). The staff report provided to the City Commission omitted listing all payment methods (types) that would incur a convenience fee and instead listed only credit and debit cards even though Amendment #2 to the contract did specify under Schedule "A" that all payment methods (types) would be affected.

BACKGROUND AND JUSTIFICATION:

The City's Utility Customer Service department utilizes Paymentus Corporation ("Paymentus") for processing of electronic bill payments for City utility services under a Master Services Agreement previously negotiated and dated September 4th, 2018. Services provided by the City and paid for in this manner by Customers include utility services such as electric, water, sewer, and incidental refuse charges.

On June 29th, 2021 Amendment #2 to the contract with Paymentus Corporation was approved changing the fee structure from an Absorbed Fee Model to a Convenience Fee Model (the "Amendment"). Under the previous Absorbed Fee model, the City absorbs the transaction fees incurred when City's utility customer pay their utility bills online using the Paymentus Online Payment Portal. Under the approved Amendment, a convenience fee of \$3.75 per \$500.00 transaction will be charged by Paymentus directly to the customer when making a payment using any of the payment methods found on the portal including but not limited to Credit Card, Debit Card, E-Check, PayPal, Amazon Pay, Venmo and all other future offerings introduced by the vendor. A Convenience Fee model is used by other local electric and gas utilities as well as Palm Beach County.

Customers still have options to pay their Lake Worth Beach utility bills without incurring the convenience fee such as: mailing a check; using night depository drop box for check or money orders; or by enrolling in City's ACH Auto Draft. In addition, customers who enroll in ACH Auto Draft and elect paperless billing are eligible to receive a one-time \$25.00 credit on their utility bill.

And customers desirous of paying with cash are still be able to do so at any CVS, 7-Eleven, Family Dollar, and soon Walmart retail locations nationwide for a fee of \$1.99 per \$1,000 transaction.

MOTION:

Move to approve/disapprove the change in the Convenience Fee model to include all customer payments made using the Paymentus Payment Portal.

ATTACHMENT(S):

Fiscal Impact Analysis - N/A Payment Method Analysis Payment Staff Report June 29,2021 Second Amendment Master Service Agreement

Period Start: 2021-08-01 Period End: 2021-08-31

Payment Method	# Count of Transactions	% of Count	\$ Amount of Transactions	% of Amount	Absorbed Fee Price	Absorbed Fee Charges
CREDI	T/DEBIT C	ARDS:				
Debit Card - VISA	7582	41%	\$1,653,036	36%	\$1.68	\$12,738
Credit Card - VISA	2960	16%	\$752,889	16%	\$1.68	\$4,973
Debit Card - MasterCard	1777	10%	\$371,024	8%	\$1.68	\$2,985
Credit Card - MasterCard	1153	6%	\$324,452	7%	\$1.68	\$1,937
Sub-Total Credit/Debit Cards:	13,472	73%	\$3,101,401	67%		\$22,633

E-Check (Electronic Checking/Savings):						
E-Check - Checking Account	4340	24%	\$1,406,099	30%	\$0.45	\$1,953
E-Check - Savings Account	46	0%	\$7,105	0%	\$0.45	\$21
Sub-Total E-Check:	4,386	24%	\$1,413,204	30%		\$1,974

Advanced	Payment	Method	s:			
PayPal Credit	349	2%	\$90,497	2%	\$1.68	\$586
Credit Card - Discover	164	1%	\$29,571	1%	\$1.68	\$276
Amazon Pay	40	0%	\$10,153	0%	\$1.68	\$67
Venmo	20	0%	\$4,832	0%	\$1.68	\$34
PayPal Credit	20	0%	\$4,493	0%	\$1.68	\$34
Sub-Total Advanced Payment Methods:	593	3%	\$139,547	3%		\$996

SUB-TOTAL:	18,451	100%	\$4,654,152	100%		\$25,603
Reward Credit Cards	(1126**)		\$485,622		2.65 %	\$12,869
SUB-TOTAL (including Reward Card Charges):	18,451		\$5,139,774			\$38,472
Chargebacks / Returns	66		-\$28,490		\$5.95	\$393
GRAND TOTAL INVOICE:						\$38,865

****NOTE: 1126 Reward Cards are already included in the Credit Card Total Count above**

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: June 29, 2021

TITLE:

 $\{ (i_{i_1})_{i_2} \in \{i_{i_1}\} \mid i \in [n]\}$

Payment of Credit and Debit Card Fees associated with customer payment of utility bills

SUMMARY:

Amendment #2 to contract with Paymentus Corporation to change responsibility for payment of credit card and debit card fees from an Absorbed Fee Model (under which fees are paid by the City) to a Convenience Fee Model (under which fees are paid by the customer).

BACKGROUND AND JUSTIFICATION:

The City's Utility Customer Service department utilizes Paymentus Corporation ("Paymentus") for processing of electronic bill payments for City utility services under a Master Services Agreement previously negotiated and dated September 4th, 2018. Services provided by the City and paid for in this manner by Customers include utility services such as electric, water, sewer, and incidental refuse charges.

The City is considering amending the current agreement with Paymentus to change from an Absorbed Fee Model to a Convenience Fee Model (the "Amendment"). Under the current Absorbed Fee model, the City absorbs the transaction fees incurred when City's utility customer pay their utility bills using a credit or debit card. Under the proposed Amendment, a nominal convenience fee of \$3,75 per \$500.00 transaction will be charged by Paymentus directly to the customer when paying by credit or debit card. By comparison, customer's paying with cash pay a convenience fee of \$1.99 per transaction. Under the proposed model the City will not collect the convenience fee, rather the fee will be collected directly by Paymentus from the customer at the time of the transaction and the full amount of the customer's payment towards their utility bill will be deposited into the City's bank account nightly.

The expense to the City under the current policy of absorbing credit card fees is increasing steadily as rewards cards grow in popularity. Currently the City is absorbing the credit and debit card fees for all utility bill payments at an estimated cost to the City of approximately \$456,000 for FY2021. These fees are subsequently allocated to the City's utility departments as an operating expense, thereby placing upward pressure on rates for all City utilities customers. After surveying other municipalities in the state of Florida, it was found that approximately 75% of the municipalities surveyed utilize a Convenience Fee model when customers choose to pay their utility bill with a credit or debit card, as do investor owned electric and natural gas utilities, Palm Beach County, and other Lake Worth Beach City departments for their respective services.

Under the proposed Convenience Fee model all credit and debit cards would be accepted. Under our current Absorbed fee model the City has restricted the use of credit cards to disallow certain card(s) which charge exorbitant transaction fees. If the Amendment is approved City, Staff and Paymentus will coordinate efforts to implement the conversion to a Convenience Fee model. It is anticipated that the conversion will be effective for the new fiscal year beginning October 1, 2021.

MOTION:

Move to approve/disapprove payment of Credit and Debit Card Fees associated with customer payment of utility bills.

ATTACHMENT(S):

Fiscal Impact Analysis - N/A Amendment No.2

AMENDMENT NO. 2 TO MASTER SERVICES AGREEMENT EFFECTIVE SEPTEMBER 4, 2018

This Amendment No. 2 ("Amendment No. 2") amends the Master Services Agreement effective as of September 4, 2018 ("Effective Date") which was modified by Amending Agreement 1 dated November 20, 2018 (collectively the "Agreement") between City of Lake Worth Beach ("Client") with a principal place of business located 7 North Dixie Highway, Lake Worth Beach, FL 33460 and Paymentus Corporation, a State of Delaware Corporation with a principal place of business at 13024 Ballantyne Corporate Parkway, Suite 400, Charlotte, North Carolina 28277 ("Paymentus"). Customer and Paymentus are also referred to as "Party" and collectively as the "Parties." This Amendment No. 2 is effective at the time of the last to sign of the Parties.

STATEMENT OF PURPOSE

Customer and Paymentus entered into the Agreement for electronic bill payment services;

The Parties currently desire to amend the Agreement to replace Schedule A of the Master Services Agreement to change the fee model from an Absorbed Fee Model ("Customer Pay") to a Convenience Fee Model ("User Pay").

AGREEMENT

In consideration of mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Customer and Paymentus agree as follows:

1. <u>Amendment</u>. The Agreement is hereby amended as of the Effective Date of this Amendment No. 2 as follows:

A 197 (201)

 $M_{\rm eff} = 1_{\rm eff} M_{\rm eff}$

1.1 The existing Schedule A (Paymentus Service Fee Schedule) of the Agreement is replaced in its entirety with the new Schedule A attached.

2. Miscellaneous:

2.1 This Amendment No. 2 is binding and inures to the benefit of the Parties and their respective successors and assigns.

2.2 All other terms and conditions of the Agreement not modified by this Amendment No. 2 remain in full force and effect.

1 N N 1 1 1

2.3 This Amendment No. 2 may be executed in two or more counterparts, each of which shall be deemed to be an original, but all of which shall constitute one and the same instrument.

3. 5	SCRU	TINIZED	COMP	ANIES:
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IN WITNESS WHEREOF, the Parties hereto have caused this Amendment No. 2 to be executed by their duly authorized representatives.

CITY OF LAKE WORTH BEACH

By:		
Printed Name:	Betty Resch	
Title: Mayor Date: 8/26/202		
Date: 8/26/202	:1	<u>3</u>

PAYMENTUS CORPORATION By:

Printed Name: <u>David Shapiro</u> Title: <u>SVP</u> Date: <u>August 4, 2021</u>



ATTEST:

Melissa Ann Coynes CMC By:

Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

By: Christy Goddean

Glen J. Torcivia, City Attorney

APPROVED FOR FINANCIAL SUFFICIENCY

By: Bruce Miller

Bruce T. Miller, Financial Services Director

Paymentus <u>SCHEDULE A – PAYMENTUS FEE SCHEDULE</u> <u>TO THE MASTER SERVICES AGREEMENT</u> <u>BETWEEN [CLIENT] AND PAYMENTUS</u>

The Services will initially consist of those indicated by a check box on the following table. The Paymentus Fee will be as specified below, and will be paid by the Client, unless designated as a User paid fee.

Check to Select the Channel	Channels	Advanced Services	Payment Methods & Channels	Paymentus Fee	Check if User Paid Fee
\boxtimes	Instant Payment Network™	Ebill Presentment and Customer Engagement	All payment channels and methods offered under IPN such as PayPal, Venmo, PayPal Credit, Amazon Pay	\$3.75	
	Utility Direct Payments (Web, IVR, Recurring)	Ebill Presentment and Customer Engagement	Credit, Debit, e-Check/ACH	\$3.75	
\boxtimes	Utility Direct Payments (Agent Assisted)	Ebill Presentment and Customer Engagement	Credit, Debit	\$1.68	
	Utility Direct Payments (Agent Assisted)	Ebill Presentment and Customer Engagement	e-Check/ACH	\$0.65	
	Utility Direct Payments (Agent Assisted- Non-Qualified)	Ebill Presentment and Customer Engagement	Credit, Debit	2.65%	
	Non-Utility (Web, IVR, Recurring, Agent Assisted)	Ebill Presentment and Customer Engagement	Credit, Debit, e-Check/ACH	2.65%	

Note: Average Bill Amount: \$<u>189.00</u>. Maximum Amount per Utility Payment is \$<u>500.00</u>. Multiple payments may be made. Maximum Amount per Non-Utility payment is \$<u>900.00</u> Chargebacks and returned checks will be billed at \$<u>5.95</u> per item.



MASTER SERVICES AGREEMENT

City of Lake Worth
414 Lake Avenue Lake Worth, FL 33460
Franco Bellitto, Customer Service Manager
324,000

This Master Services Agreement ("Master Agreement") is entered into as of the Effective Date below, by and between the Client ("Client") identified above and **Paymentus Corporation**, a Delaware Corporation ("Paymentus").

WHEREAS Paymentus provides electronic bill payment services to utilities, municipalities, insurance and other businesses; and

WHEREAS the City of Lewisville, Texas, competitively solicited electronic bill payment options services under Solicitation No. 17.06-A; and

WHEREAS the City of Lewisville, Texas, awarded Solicitation No. 17.06-A to Paymentus, which submitted a proposal in response to said Solicitation; and

WHEREAS the Client desires to piggy-back Solicitation No. 17.06-A; and,

WHEREAS Paymentus desires to provide and the Client desires to receive those certain services under the terms and conditions set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, hereby covenant and agree as follows. This Agreement consists of this signature page, General Terms and Conditions, and the attachments ("**Attachments**") with schedules ("**Schedules**") listed below:

Schedule A: Paymentus Service Fee Schedule

Schedule B: Paymentus Service Fee Schedule, Enterprise Communications Manager (Optional)

Schedule C: Paymentus Provisioning of Counter Payment Hardware (Optional)

Schedule D: Paymentus E-Bill Presentment (Optional)

Schedule E: PayNearMe Integrated Services

Schedule F: Paymentus Provisioning of Additional Software from Superion (Optional)

This Agreement represents the entire understanding between the parties hereto with respect to its subject matter and supersedes all other written or oral agreements heretofore made by or on behalf of Paymentus or Client with respect to the subject matter hereof and may be changed only by agreements in writing signed by the authorized representatives of the parties.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives.

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Client: CITY OF LAKE WORTH, FLORIDA	Paymentus:
By:	Ву:
Name:	Name: Jerry Portocalis
Title:	Title: <u>Senior Vice President</u>
Date:	Date: September 4, 2018
<u>Attest:</u>	
By:	
Deborah M. Andrea, City Clerk	
Approved as to form and legal sufficiency:	
<u>By:</u>	

Glen J. Torcivia, City Attorney

GENERAL TERMS AND CONDITIONS

1 <u>Definitions:</u>

For the purposes of this Agreement, the following terms and words shall have the meaning ascribed to them, unless the context clearly indicates otherwise.

1.1 **"Agreement** "or "**Contract**" shall refer to this Agreement, as amended from time to time, which shall constitute an authorization for the term of this contract for Paymentus to be the exclusive provider of services, stated herein, to the Client

1.2 "**User**" shall mean the users of the Client's services

1.3 **"Effective Date**" shall be the last date upon which the parties signed this Agreement. The Agreement will not be effective against any party until the said date

1.4 **"Launch Date**" shall be the date on which Client launches this service to the Users

1.5 **"Payment**" shall mean Users to make payments for Client's identified utility services or Client's identified utility bills

1.6 **"Payment Amount**" shall mean the bill amount User wants to pay to the Client.

1.7 **"Non-consumer Cards"** shall mean credit cards which are issued for business use. These high-cost cards may include corporate cards, purchase cards, business cards, travel and entertainment cards.

1.8 **"Services**" shall only include the performance of the Services outlined in section 2 of this Agreement

1.9 **"Paymentus Authorized Processor"** shall mean a Paymentus authorized merchant account provider and payment processing gateway

1.10 **"Average Bill Amount**" shall mean the total amount of Payments collected through Paymentus system in a given month divided by the number of the Payments for the same month.

2 <u>Description of Services to be performed</u>

2.1 Scope of Services

Paymentus shall provide Users the opportunity to make Payments by Visa, MasterCard, Discover, E-check and other payment methods as deemed necessary by Paymentus. Payments may be made by Interactive Telephone Voice Response System ("IVR") or secure Internet interface provided at the Paymentus Corporation's web site or other websites part of Paymentus' Instant Payment Network ("WebSites"), collectively referred to as the ("System" or "Platform").

2.2 Professionalism

Paymentus shall perform in a professional manner all Services required to be performed under this Agreement.

3 <u>Compensation</u>

3.1 No Cost Installation

Paymentus will charge no fees related to the initial setup and personalization of its standard service for both Web and IVR interfaces.

3.2 Paymentus Service Fee

For each payment, Paymentus will charge a Paymentus Service Fee as per Schedule A (hereinafter called "Paymentus Service Fee").

For each payment, the Paymentus Service Fee collected will be used to pay the corresponding Credit Card transaction fees or transaction fees associated with Debit Cards or eChecks (hereinafter called "Transaction Fees") except for the return items (eCheck returns or Credit/Debit Card chargebacks).

A schedule of Paymentus Service Fee is attached hereto as Schedule A. The Paymentus Service Fee is based on the Average Bill Amount, current payment method mix (credit vs debit vs echeck) and on the assumption that the total number of payments and the total Payment Amount collected each month from the use of non-consumer cards shall be under 5% of the total per month ("Fee Assumptions"). Client shall be billed an additional Paymentus Service Fees based on the rate of 3.5% of the Payment Amount for any excess amount if the Fee Assumptions vary by more than 5%. Paymentus can amend this schedule upon thirty (30) days' prior written notice to

Master Services Agreement – Absorbed Confidential & Proprietary

the Client, if such change is required due to changes in the Visa and MasterCard regulations or changes in Credit Card fees or changes in the Average Bill Amount or changes in Fee Assumptions.

4 Payment Processing

4.1 Integration with Client's Billing System

At no cost to Client, Paymentus will develop one (1) file format interface with Client's billing system using Client's existing text file format currently used to post payments to Client's billing system. Client will be responsible to provide Paymentus with the one file format specification and will fully cooperate with Paymentus during the development of the said interface. If Client chooses to create an automated file integration process to download the posting file, due to Paymentus security requirements, Client will use Paymentus specified integration process. Paymentus platform is an independent full service fully hosted platform per PCI-DSS requirements for a fully hosted solution. As such, Paymentus platform does and can function independent of any billing system integration. A payment posting file can be emailed or downloaded from Paymentus Agent Dashboard. If Client chooses to have Paymentus platform integrated with its billing system, Paymentus offers two options:

(i) Paymentus standard integration specification that Client can use to integrate its billing systems with Paymentus platform ("Standard Integration"); (or)

(ii) Paymentus to either customize or configure its platform to integrate with Client using file specification or APIs supported by Client's billing system ("Client Specific Integration")

If Client chooses Standard Integration, Paymentus agrees to fully cooperate with Client and provide its specification to Client. Paymentus also agrees to participate in meetings with Client's software vendor to provide any information or clarifications needed to understand Standard Integration. Time is of the essence and Paymentus agrees provide all integration/interface to specifications within 30 days from the Effective Date. Client will take commercially reasonable steps to develop the integration within 60 days from the date on which Client has received all integration specifications from Paymentus. Parties agree that if Client does not cooperate fully, it can lead to Paymentus being unable to perform its duties to deliver the integration in time.

If Client chooses Client Specific Integration. Paymentus agrees to develop such integration at no cost to Client, provided however, Client agrees to fully cooperate with Paymentus and cause its software vendors to fully cooperate with Paymentus. Client agrees to provide all specification required for Client specific integration. Client further agrees to participate in testing with Paymentus and if needed, cause its billing software vendors to participate in testing. Time is of the essence and Client agrees to provide or make available all integration/interface specifications within 30 days from the Effective Date. Paymentus will take commercially reasonable steps to develop the integration within 60 days from the date on which Paymentus has received all the integration specifications from Client or its vendors. Parties agree that if Client does not cooperate fully or is unable to cause its software vendors to cooperate fully with Paymentus, it can lead to Paymentus being unable to perform its duties to deliver the integration in time.

Based on Client's use of Paymentus platform and respective modules selected under this Agreement, Paymentus will require the following integration points:

- 1. For one-time Payment Module:
 - a. Customer Information Text File or Realtime

b. Payment Posting – Text File or Real-time

- 2. For Recurring Payment Module
 - a. Text File
- 3. For E-billing Module
 - a. Billing Data Text File or Real-time link to billing data
- 4. For Outbound Notification
 - a. Audience File Text File for customer engagement messages

Each of these can be based on Standard Integration or Client Specific Integration.

4.2 PCI Compliance

For PCI Compliance, Client has two options for using Paymentus platform:

- (i) Paymentus Fully Hosted Solution; or
- (ii) Any other configuration

To substantially reduce or eliminate any PCI compliance risks and to render all Client systems out of scope from PCI compliance requirements, Client agrees to use Paymentus' fully hosted service where Paymentus uses its own platform to capture Payments and to manage the entire (end to end) user experience from all channels for Payment

acceptance: Web, Mobile, IVR, POS devices (per recommended Pavmentus setup), recurrina payments, Ebill Presentment ("Paymentus Fully Hosted Solution"). If Client chooses any other integration such as third party web pages integrated with Paymentus APIs, third party gateway pages, or its own IVR systems or POS solution not recommended by Paymentus, or a cashiering module from third party, Client expressly agrees that Client shall not be exempt from PCI requirements and shall be liable for any data breaches occurring on its own systems as Client's recognizes that Client systems are participating in the transactions and are in scope for PCI compliance. Under such circumstances, Paymentus shall not be responsible for any PCI obligations outside of Paymentus own platform and Paymentus expressly disclaims any PCI or security obligations related to Client systems or any third party systems that participate in the payment transactions that are outside of Paymentus Platform.

Paymentus highly recommends that Client uses Paymentus Fully Hosted Solution to substantially reduce its PCI compliance and data breach risks.

If Client chooses to use any other option other than Paymentus Fully Hosted Solution, Client agrees and warrants that Client shall remain PCI compliant throughout the term of this Agreement. For clarity, just because Client uses PCI compliant applications such as its billing software, it does not eliminate the need for Client to be PCI compliant. Per PCI requirements, if a party's systems participate in processing, or accepting or storing card transactions, such party is required to be PCI compliant as the systems are in scope.

4.3 Explicit User Confirmation

Paymentus shall confirm the dollar amount of all Payments to be charged to a Card and electronically obtain the User approval of such charges prior to initiating Card authorizations transaction. Paymentus will provide User with electronic confirmation of all transactions.

4.4 Merchant Account

Paymentus will arrange for the Client to have a merchant account with the Paymentus Authorized Processor for processing and settlement of the credit card transactions.

4.5 Card Authorization

For authorization purposes, Paymentus will electronically transmit all Card transactions to the appropriate card associations in real time as the transactions occur.

4.6 Settlement

Paymentus together with its authorized Card processor shall forward the payment transactions to the appropriate card organizations for settlement directly to the Client's depository bank account previously designated by the Client (hereinafter the "Client Bank Account").

Paymentus will debit the Paymentus Service Fees from Client's account on a monthly basis.

Paymentus together with Paymentus Authorized Processor will continuously review its settlement and direct debit processes for its simplicity and efficiencies. Client and Paymentus agree to fully cooperate with each other if Paymentus were to change its settlement and invoicing processes.

5 <u>General Conditions of Services</u>

5.1 Service Reports

Paymentus shall provide Client with reports summarizing use of the Services by Users for a given reporting period.

5.2 User Adoption Communication by Client

Client will make Paymentus' Services available to its residential and commercial Clients by different means of Client communication including a) through bills, invoices and other notices; b) by providing IVR and Web payment details on the Client's website including a "Pay Now" or similar link on a mutually agreed prominent place on the web site; c) through Client's general IVR/Phone system; and d) other channels deemed appropriate by the Client.

Paymentus shall provide Client with logos, graphics and other marketing materials for Client's use in its communications with its users regarding the Services and/or Paymentus.

Both parties agree that Paymentus will be presented as a payment method option. Client will communicate Paymentus option to its end residential and commercial Clients wherever Client usually communicates its other payment methods.



5.3 Independent Contractor

Client and Paymentus agree and understand that the relationship between both parties is that of an independent contractor.

5.4 **Client's Responsibilities**

In order for Paymentus to provide Services outlined in this Agreement, the Client shall co-operate with Paymentus by:

(i) Client will enter into all applicable merchant Card or cash management agreements.

(ii) For the duration of this Agreement, Client will keep a bill payment link connecting to Paymentus System at a prominent and mutually agreed location on the Client website. The phone number for the IVR payment will also be added to the web site. Client will also add the IVR payment option as part of the Client's general phone system.

(iii) User Adoption marketing as described in 5.2.

(iv) Within 30 days of the merchant account setup, Client will launch the service to the Users.

(v) For the purpose of providing Client a posting file for posting to Client's billing system, Client will provide the file format specification currently used to post its payments to the billing system. Client will fully cooperate with Paymentus and provide the information required to integrate with Client's billing system.

6 Governing Laws and Venue

This Agreement shall be governed by the laws of the state of Palm Beach County, Florida and any and all legal disputes shall be subject to venue in Palm Beach County, Florida.

7 <u>Communications</u>

7.1 Authorized Representative

Each party shall designate an individual to act as a representative for the respective party, with the authority to transmit instructions and receive information. The parties may from time to time designate other individuals or change the individuals.

7.2 Notices

All notices of any type hereunder shall be in writing and shall be given by Certified Mail or by a

national courier or by hand delivery to an individual



authorized to receive mail for the below listed individuals, all to the following individuals at the following locations:

To Client

C/O: City Manager Address: City of Lake Worth 7 N. Dixie Highway Lake Worth, FL 33460 Email:

To Paymentus

C/O: President and CEO Address: 13024 Ballantyne Corporate Place Suite 450 Charlotte, NC 28277 Email: <u>ceo@paymentus.com</u>

Notices shall be declared to have been given or received on the date the notice is physically received if given by hand delivery, or if notices given by US Post, then notice shall be deemed to have been given upon on date said notice was deposited in the mail addressed in the manner set forth above. Any party hereto by giving notice in the manner set forth herein may unilaterally change the name of the person to whom notice is to be given or the address at which the notice is to be received.

7.3 Interpretation

It is the intent of the parties that no portion of this Agreement shall be interpreted more harshly against either of the parties as the drafter.

7.4 Amendment of Agreement

Modifications or changes in this Agreement must be in writing and executed by the parties bound to this Agreement.

7.5 Severability

If a word, sentence or paragraph herein shall be declared illegal, unenforceable, or unconstitutional, the said word, sentence or paragraph shall be severed from this Agreement, and this Agreement shall be read as if said word, sentence or paragraph did not exist.

7.6 Attorney's Fees

Should any litigation arise concerning this Agreement between the parties hereto, the parties agree to bear their own costs and attorney's fees.

7.7 Confidentiality

Except as provided herein or under applicable law, Client will not disclose to any third party or use for any purpose inconsistent with this Agreement any confidential or proprietary non-public information it obtains during the term of this Agreement about Paymentus' business, operations, financial condition, technology, systems, no-how, products, services, suppliers, Clients, marketing data, plans, and models, and personnel. Paymentus will not disclose to any third party or use for any purpose inconsistent with this Agreement any confidential User information it receives in connection with its performance of the services.

7.8 Intellectual Property

In order that the Client may promote the Services and Paymentus' role in providing the Services, Paymentus grants to Client a revocable, rovalty-free, non-exclusive, license to use Paymentus' logo and other service marks (the "Paymentus Marks") for such purpose only. Client does not have any right, title, license or interest, express or implied in and to any object code, software, hardware, trademarks, service mark, trade name, formula, system, know-how, telephone number, telephone line, domain name, URL, copyright image, text, script (including, without limitation, any script used by Paymentus on the IVR or the WebSite) or other intellectual property right of Paymentus ("Paymentus Intellectual Property"). All Paymentus Marks, Paymentus Intellectual Property, and the System and all rights therein (other than rights expressly granted herein) and goodwill pertain thereto belong exclusively to Paymentus.

7.9 Force Majeure

Paymentus will be excused from performing the Services as contemplated by this Agreement to the extent its performance is delayed, impaired or rendered impossible by acts of God or other events that are beyond Paymentus' reasonable control and without its fault or judgment, including without limitation, natural disasters, war, terrorist acts, riots, acts of a governmental entity (in a sovereign or contractual capacity), fire, storms, quarantine restrictions, floods, explosions, labor strikes, labor walk-outs, extra-ordinary losses utilities (including telecommunications services), external computer "hacker" attacks, and/or delays of common carrier.

7.10 Time of the Essence

Paymentus and Client acknowledge and agree that time is of the essence for the completion of

Master Services Agreement – Absorbed Confidential & Proprietary the Services to be performed and each parties respective obligations under this Agreement.

8 Indemnification

8.1 **Paymentus Indemnification and Hold** Harmless

Paymentus agrees to the fullest extent permitted by law, to indemnify and hold harmless the Client and its governing officials, agents, employees, and attorneys (collectively, the "Client Indemnitees") from and against all liabilities, demands, losses, damages, costs or expenses (including reasonable attorney's fees and costs), incurred by any Client Indemnitee as a result or arising out of (i) the willful misconduct or negligence of Paymentus in performing the Services or (ii) a material breach by Paymentus of its covenants.

8.2 Client Indemnification and Hold Harmless

Subject to and without waiving Client's right to sovereign immunity under Florida law and subject to the limits of the limited waiver of sovereign immunity set forth in section 768.28, Florida Statutes, Client agrees to the fullest extent permitted by law, to indemnify and hold harmless Paymentus, its affiliates, officers, directors, stockholders, agents, employees, and representatives, (collectively, the "Paymentus Indemnitees") from and against all liabilities, demands, losses, damages, costs or expenses (including without limitation reasonable attorney's fees and expenses) incurred by any Paymentus Indemnitee as a result or arising out of (i) the negligence of Client related to the Services. Nothing herein shall be construed as the Client's consent to be sued by a third party or as a waiver of the Client's right to sovereign immunity. Nothing herein shall be interpreted to or confer any benefit on a third party.

8.3 Warranty Disclaimer

Except as expressly set forth in this Agreement, Paymentus disclaims all other representations or warranties, express or implied, made to the Client or any other person, including without limitation, any warranties regarding quality, suitability, merchantability, fitness, for a particular purpose or otherwise of any services or any good provided incidental to the Services provided under this Agreement.

8.4 Limitation of Liability

Notwithstanding the foregoing, the parties

agree that neither party shall be liable to the other for any lost profits, lost savings or other special, indirect or consequential damages, even if the party has been advised of or could have foreseen the possibility of such damages. Paymentus' total liability for damages for any and all actions associated with this Agreement

or the Services shall in no event exceed the specific dollar amount of the Paymentus Service Fee paid to Paymentus.

9 <u>Term and Termination</u>

9.1 **Term**

The term of this Agreement shall commence on the effective date of this Agreement and continue for a period of 5 (five) years ("Initial Term") from the Launch Date. Services under this Agreement shall begin within 30 days of the merchant account setup.

At the end of the Initial Term, this Agreement m a y b e renewed for successive three (3) year periods by written agreement of the Client and Paymentus .Each renewal term shall be subject to the termination provision set forth herein. The Client's City Manager may exercise any renewal term on behalf of the Client. Notwithstanding the foregoing, if Paymentus were to process any Payment beyond the Initial Term or any subsequent, it would be deemed under a renewal term of three (3) years.

9.2 Material Breach

A material breach of this Agreement shall be cured within 60 (sixty) days ("Cure Period") after a party notifies the other of such breach. In the event, such material breach has not been cured within the Cure Period, the non-breaching party can terminate this Agreement by providing the other party with a 30 (thirty) days' notice.

9.3 Upon Termination

Upon termination of this Agreement, the parties agree to cooperate with one another to ensure that all Payments are accounted for and all refundable transactions have been completed. Upon termination, Paymentus shall cease all Services being provided hereunder unless otherwise directed by the Client in writing.

10 Miscellaneous

10.1 Paymentus shall provide proof of insurance coverage as required hereunder. Such insurance policy(s) shall be issued by the United States Treasury or insurance carriers approved and authorized to do business in the State of Florida, and who must have a rating of no less than "excellent" by A.M. Best or as mutually agreed upon by the Client and Paymentus. All such insurance policies may not be modified or terminated without the express written authorization of the Client.

Type of Coverage and Amount of Coverage

Commercial general liability: \$1,000,000 per occurrence and \$2,000,000 annual aggregate for products/completed operations, contractual, insurance broad form property, Independent Consultant, personal injury.

Worker's Compensation at the applicable statutory limits.

If any services are to be provided in-person at the Client's facilities, the commercial general liability will name the Client as an additional insured on a primary and noncontributory basis for the performance of all work/services and completed work/services. Proof of all insurance coverage shall be furnished to the Client by way of an endorsement to same or certificate of insurance. The certificates shall clearly indicate that Paymentus has obtained insurance of the type, amount, and classification as required for strict compliance with this section. Failure to comply with the foregoing requirements shall not relieve Payments of its liability and obligations under this Agreement.

10.2 Paymentus represents and warrants that it has

and will continue to maintain all licenses and approvals required to conduct its business in the State of Florida, and that it will at all times conduct its business activities in a reputable manner and in conformance with all applicable laws. Proof of such licenses and approvals shall be submitted to the Client upon request.

10.3 As provided in Sections 287.132-133, Florida Statutes, as amended from time to time, by entering into this Agreement, Paymentus certifies that it, its affiliates, suppliers, subcontractors and any other contractors who will perform hereunder, have not been placed on the convicted vender list maintained by the State of Florida Department of Management Services within the thirty-six (36) months immediately preceding the date hereof.

10.4 In accordance with Palm Beach County ordinance number 2011-009, this Agreement shall be subject to investigation and/or audit by the Palm Beach County Inspector General. Paymentus should review Palm Beach County ordinance number 2011-009 in order to be aware of its rights and/or obligations under such ordinance and as applicable.

10.5 Public Records: Paymentus shall comply with Florida's Public Records Act, Chapter 119, Florida Statutes (the "Public Records Act"), and, if determined to be acting on behalf of the Client as provided under section 119.011(2), Florida Statutes, specifically agrees to:

a. Keep and maintain public records required by the Client to perform the services.

b. Upon request from the Client's custodian of public records or designee, provide the Client with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

c. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract Documents following completion of the Contract Documents if the Paymentus does not transfer the records to the Client.

d. Upon completion of this Agrement, transfer, at no cost, to the Client all public records in possession of Paymentus or keep and maintain public records required by the Client to perform the service. If Paymentus transfers all public records to the Client upon completion of the Contract Documents, Paymentus shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Paymentus keeps and maintains public records upon completion of the Contract Documents, Paymentus shall meet all Macter Services Agreement – Absorbed applicable requirements for retaining public records. All records stored electronically must be provided to the Client, upon request from the Client's custodian of public records or designee, in a format that is compatible with the information technology systems of the Client.

IF PAYMENTUS HAS QUESTIONS REGARDING THE OF CHAPTER APPLICATION 119. FLORIDA STATUTES, TO THE PAYMENTUS'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THE CONTRACT DOCUMENTS, PLEASE CONTACT THE CUSTODIAN OF PUBLIC RECORDS OR DESIGNEE AT THE CITY OF LAKE WORTH, ATTN: DEBBIE ANDREA, AT (561) 586-1662. DANDREA@LAKEWORTH.ORG, 7 DIXIE Ν. HIGHWAY, LAKE WORTH, FL 33460.

10.6 Paymentus will defend or settle at its expense a claim or suit brought by a third party against the Client arising out of a claim asserting that the work, services, repair, materials or other deliverables ("deliverables" hereafter) provided by Paymentus under this Agreement infringes any U.S. copyright or any U.S. patent or misappropriates a trade secret. Paymentus will indemnify and hold harmless the Client against and from damages, costs, and reasonable attorneys' fees, if any and at all levels of trial and appeal or mediation or arbitration, finally awarded in such suit or the amount of the settlement thereof; provided that (i) Paymentus is promptly notified in writing of such claim or suit, (ii) Paymentus will have the sole control of the defense and settlement thereof, and (iii) Client furnishes Paymentus, on reasonable request, information available to Client for such defense. The Client will not admit any such claim without prior consent of Paymentus.

a. In the event of a claim of infringement, Paymentus shall, at its option:

1. procure for Client the right to continue using the deliverables provided under this Agreement; or

2. replace or modify the deliverables so that the same becomes non-infringing but substantially equivalent in functionality and performance.

3. If neither of the above actions is reasonably feasible, Paymentus will refund to Client the fee actually paid by Client under this Agreement (as amortized on a straight-line basis over the time in which the Client was able to use the deliverables.

b. Paymentus will have no obligation



under this section for infringement if and to the extent that such claim arises from:

1. modif	modification		the
deliverables	other	than	by
Paymentus	or	by	its
recommendat	ion; or		

2. combination of the deliverables with products other than those supplied by Paymentus;

3. the alleged infringement or misappropriation relates to such modification or combination; and/or

4. the specifications or written direction of the Client directs Paymentus to construct, fabricate or otherwise provide the infringing deliverables, design, apparatus or, article, with Paymentus's products, services, or work product.

c. Paymentus will also not have any indemnification obligation with respect to a claim: (i) if it has provided Client with reasonable changes that would have avoided the problem and the reasonable changes are not fully implemented by Client within a reasonable time or (ii) arising out use of the deliverables not in accordance with this Agreement.

d. Paymentus's obligation to indemnify, defend and hold harmless shall remain in effect and shall be binding upon Paymentus whether such injury or damage shall accrue, or may be discovered, before or after termination or expiration of this Agreement.



Schedule A – Paymentus Service Fee Schedule

Utility Payments

Paymentus Service Fee charged to the Client will be based on the following model:

	Absorbed Fee Model					
1.	Utility Payments					
	Absorbed Model					
	Average Bill Amount: \$189.00 Paymentus Service Fee per qualified u	tility rate transaction				
	Credit/Debit CardACH/ eCheck	\$1.68 \$0.45				
	Paymentus Service Fee per non-qualifi	ed payments				
	AMEX & Non-Qualified Card	2.65%				
2.	Non Utility Payments					
	Paymentus Service Fee per transaction	n				
	Credit/Debit CardACH/ eCheck	2.75% \$0.65				

Note: Maximum Amount per Payment is \$1,500.00. Multiple payments can be made. Chargebacks and returned checks will be billed at \$9.95 per item

Paymentus may apply different limits per transactions for user adoption or to mitigate risks.



Schedule B: Paymentus Service Fee Schedule, Enterprise Communications Manager (Optional)

Paymentus Enterprise Communications Manager consists of Paymentus' pre-recorded, digitally rendered messages for payments reminders and service outage alerts. Automated messages can be sent to your customers through the Paymentus platform by automated phone and SMS (Short Message Service - Text Messaging). There is no charge to the Customer for the infrastructure enabling these services.

ECM FEE STRUCTURE For Paymentus standard campaign messages				
Up to 3,500 Messages Per Month No Charge				
In Excess of Allotted Messages per Month				
\$0.10 per IVR and SMS message				
\$0.05 per Email message				



Schedule C: Paymentus Provisioning of Counter Payment Hardware (Optional)

(Works with Superion Cash Receipts or with Paymentus Agent Dashboard for USB-attached encrypted card readers, factory- loaded with Paymentus firmware)

CARD SWIPE DEVICES					
Secure	eMag [™] Encrypted Card Sw	vipe Device*			
•	QTY: Up to 8	\$0.00 ea.			
•	Additional Devices:	\$225.00 ea.			
•	Setup & Configuration	Devices will arrive at client site pre-configured and "ready for use"			
•	Shipping & Handling	Fee Waived			



Schedule D: Paymentus E-Bill Presentment (Optional)

Paymentus Service Fee charged to the Customer will be based on one of the following table:

Service Type	Paymentus Service Fee	
 PDF E-Bill Design and development Hosting Fee 	\$5,000 \$600 per month	Fee Waived Fee Waived

Notes:

- 1. Paymentus will offer Electronic Bill Presentment and Payment (EBPP) to users through the Paymentus Customer Dashboard web portal, to be provided to the customer.
- 2. Paymentus will invoice monthly for the hosting fee (waived).

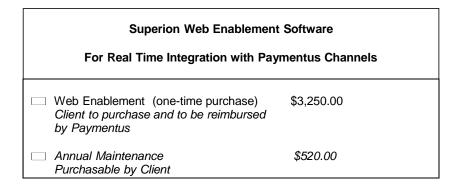


Schedule E: PayNearMe Integrated Services (Optional)

Remote location PayNearMe payments integrated with Paymentus processing

PayNearMe-Paymentus In Biller Pay Fee	•	
 Remote Location Payment Fee PrePay 	\$1.99 ea. \$1.49 ea.	

Schedule F: Paymentus Provisioning of Additional Software from Superion (Optional)



EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Establishing new Electric Utility Rates and Charges to be Effective on either January 1, 2022 or April 1, 2022

SUMMARY:

Proposed electric utility rate increases for all customer categories to reflect increases in operating costs, base energy costs, fuel, and purchased power costs.

BACKGROUND AND JUSTIFICATION:

Since 2014, City's electric utility reduced electric rates three times under the direction of the City Commission to achieve rate parity with the neighboring investor owned utility for the benchmark 1,000 kWhr/month customer. The last of the three electric rate decreases was implemented in February, 2018, with rates remaining unchanged since then. Today the City's electric utility's residential bills rank among the lowest in the state of Florida, most recent public data ranks our electric utility 8th out of 32 municipal utilities, and well below the statewide municipal utility average, and with actual bills for a benchmark 1,000 kWhr/month customer ~0.5% lower than the neighboring utility.

The electric utility has been able to operate without rate increases for three and a half years due to significant cost cutting efforts by Staff. These include implementing operating cost controls, renegotiated energy and capacity contracts, and refinancing of outstanding debt. Over the past four years the electric utility has also identified and brought in additional revenues from renegotiated pole attachment agreements and settlements for prior unauthorized attachments, customer growth, as well as bringing in new revenues from underutilized natural gas pipeline capacity assets. The electric utility's improved financial position has allowed it to embark on a robust series of projects aimed at improving reliability for its customers, referred to as System Hardening and Reliability Improvement Program (SHRIP).

In 2020, the City contracted with Leidos, a leading rates-consulting firm, to conduct a comprehensive Cost of Service Study and recommend adjustments to electric utility rates, where deemed advisable, to assure adequacy of revenues to cover increased costs going forward. The electric utility is currently operating under Resolution 69-2021 which continued previously set Electric Utility Rates and Charges for FY2022 without changes from FY2021 amounts.

On September 28, 2021, following budget workshops and detailed financial modeling by Stantec, the Electric Utility department Staff and Leidos' Staff presented the findings of the Cost of Service Study and suggested rate changes to the City Commission for discussion and questions. The City Commission informally agreed with the suggested rates by consensus, with an accompanying request that the rates proposal be brought forward for formal approval at the October 26, 2021 City Commission meeting with an effective date of April 1, 2022.

Resolution 74-2021 was submitted for consideration at the City Commission meeting on October 26, 2021 with proposed new Electric Utility Rates and Charges effective April 1, 2022, as

previously requested. At the October 26, 2021 meeting the City Commission requested that the matter be deferred to the November 30, 2021 meeting. In recognition of significantly increased natural gas prices beyond what was anticipated during the FY2022 budget process, Staff has reviewed the suggested rate increases yet again. Staff currently anticipates that increased natural gas prices will lead to wholesale power costs ~\$2.3 million higher than budget.

Natural gas is the fuel source for approximately 53% of electric utility's wholesale energy purchases, and while not the majority of the utility's fuel source for electric generation, the utility's cost of wholesale power does track with natural gas prices. The balance of the utility's energy supply portfolio is nuclear (38%), coal (8%) and solar (0.75%). The actual percentages are approximate and vary slightly year to year depending on generating unit dispatch costs and outages.

Beginning in late 2023, into 2024 and beyond, the electric utility's supply portfolio will change for the better with the addition of significant amounts of solar energy derived from existing purchase agreements with the Florida Municipal Power Agency (FMPA) Solar Projects for 36.55 Megawatts (MW). City's contract with FMPA for solar energy, combined with the planned retirement of the utility's source of coal energy, and the displacement of supplemental energy from natural gas sources, will yield significant reductions in CO2 emissions associated with the production of electricity to serve City's electric utility customers. A concomitant benefit of City's contract with FMPA for solar energy is a further reduction in City's exposure to fluctuations in natural gas prices, in essence a hedge against rising fuel prices.

At this time however, and in order to keep up with increases in operating costs, base energy costs, fuel, and purchased power costs Staff has proposed various alternatives for rate increases. In order to minimize the impact of rising fuel costs Staff has structured four potential options for consideration which spread the fuel cost recovery period over an eighteen to twenty-one-month period, using either Jan. 1, 2022 or April 1, 2022 as the effective date. Staff's proposals are also designed to yield residential customer bills for the benchmark 1,000 kWhr/month residential customer that will remain below that of the local investor owned utility.

Staff is also proposing increases to streetlighting charges of 5.0% to 6.9% due to changed costs such as debt service and lower bulb wattages associated with the replacement of the City's streetlights to more energy efficient LED lighting in 2017. These changes were not previously reflected in rates.

There are four rate options for new Electric Utility Rates and Charges from which the Commission would select and approve one. The cases are summarized below at a high level, but are provided in detail in the backup material from Leidos, with Effective dates of January 1, 2022 or April 1, 2022

			Residential
	Residential	Commercial	1,000 kWh
Case 1 - COS Apr 1, 2022	8.0%	5.0%	\$116.65
Case 2 - Even Apr 1, 2022	6.9%	6.9%	\$115.65
Case 3 - COS Jan 1, 2022	7.0%	4.0%	\$115.45
Case 4 - Even Jan 1, 2022	6.0%	6.0%	\$114.45

The existing Residential rate is \$107.99. The proposed Neighboring Utility rate will be \$119.37 in January 2022.

Staff will continue to monitor natural gas prices and purchased power costs monthly, and will advise the City Commission of the budget status regularly for it to determine what further adjustments (up or down) may be needed in its Power Cost Adjustment (PCA).

MOTION:

Move to approve/disapprove a request that Staff bring forward an Electric Utility Rates Resolution based on one of the four options (Case 1, Case 2, Case 3, or Case 4) establishing the new Electric Utility rates and charges, for a vote at the December 7, 2021 City Commission meeting.

ATTACHMENT(S):

Fiscal Impact Analysis - N/A Davenport Ratings Presentation Leidos Rates Presentation Leidos Cost of Service Study (will be uploaded when finalized) Existing Electric Utility Rates Resolution 69-2021 Proposed Rate Resolution



City of Lake Worth Beach, Florida

Ratings Discussion



November 18, 2021

Member NYSE | FINRA | SIPC

Credit Ratings



- To issue debt in the public market, an issuer needs to obtain a credit rating from at least one of the three national credit rating agencies Fitch Ratings ("Fitch), Moody's Investors Service ("Moody's), and S&P Global ("S&P).
- A credit rating measures a local government's willingness and ability to pay its debt on time and in full.
 - The rating is a measure of risk that potential investors use to decide whether or not to purchase a government's bonds. The higher the rating, the lower the risk that a default will occur.
- The chart to the right provides an overview of the rating scales (investment grade only) from all three national rating agencies, with Aaa/AAA being the highest possible rating.
- The City of Lake Worth Beach currently has a general obligation rating of 'A1' from Moody's and 'AA-' from S&P.

		Standard &		
	Moody's	Poor's	Fitch	
Top Tier "Highest Possible Rating"	Aaa	AAA	AAA	
	Aa1	AA+	AA+	(Highest
2nd Tier "Very Strong"	Aa2	AA	AA	(Middle)
	Aa3	AA-	AA-	(Lowest)
	A1	A+	A+	(Highest
3rd Tier "Strong"	A2	А	А	(Middle)
_	A3	A-	A-	(Lowest)
4th Tier	Baa1	BBB+	BBB+	(Highest
"Adequate Capacity to	Baa2	BBB	BBB	(Middle)
Repay"	Baa3	BBB-	BBB-	(Lowest)
	N	on Investment Grad	le	





- > Formal credit ratings have multiple benefits to issuers including, but not limited to:
 - Playing a primary role in determining what interest rate and terms the City achieves for any borrowings or refinancings, with a higher credit rating resulting in lower interest rates;
 - Acting as a signal to business community about governance, management, and financial health of the City, which can help drive economic development opportunities; and



Credit Rating Process



- City contacts Rating Agencies regarding upcoming sale.

- Rating Agencies assign analysts to sale. - City provides information to rating analysts (ie – Audit, POS, Refunding Analysis, Rating Presentation, etc.).

- Rating analysts review information prior to scheduled call/visit; Some analysts will send list of questions beforehand. - Rating call or visit occurs potentially resulting in a list of follow-ups for the City. - Once all responses have been provided to the rating agencies, analysts schedule committee and prepare documents.

- Rating committees consist of a number of individuals with varying titles and backgrounds. - Rating analysts present information provided by the City to committee. Discussion about the credit and how it compares to peers ensues.

- After presentation has concluded, committee votes on the rating. - Rating analyst contacts City with rating and releases draft report for review.

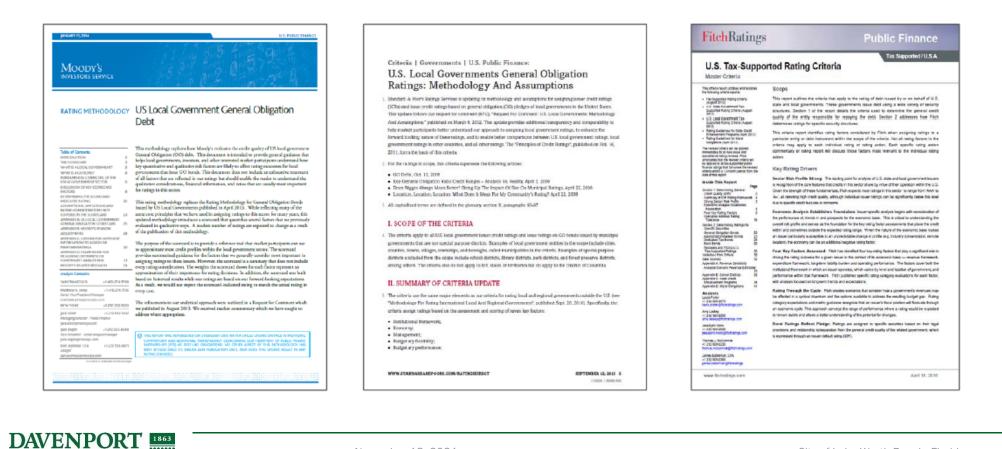
- Analyst incorporates comments and release final rating and report.



Approach to Credit Ratings



- Over the last few years, all three rating agencies have updated their rating methodologies.
- Moody's and S&P have focused on being more transparent in their ratings and established rating scorecards that are used to help determine a rating.
- Fitch's new criteria does not include a scorecard, but its primary focus is on budgetary flexibility.



1863

PUBLIC FINANCE

Moody's General Obligation Bond Methodology



- Moody's "US Local Government General Obligation Debt" methodology was last updated in September 2019 and focuses on the local government General Obligation security backed by either and unlimited or limited ad valorem taxing authority. The methodology and accompanying scorecard, outline four broad rating factors and their respective weights:
 - Economy/Tax Base (30%);
 - Finances (30%);
 - Management (20%); and
 - Debt (20%).
- These broad rating factors are then broken down into sub-factors, which hold their own respective weights.

Broad Rating Factors	Factor Weighting	Rating Subfactors	Subfactor Weighting
Economy/Tax Base	30%	Tax Base Size (Full Value)	10%
		Full Value Per Capita	10%
		Wealth (Median Family Income)	10%
Finances	30%	Fund Balance (% of Revenues)	10%
		Fund Balance Trend (5-Year Change)	5%
		Cash Balance (% of Revenues)	10%
		Cash Balance Trend (5-Year Change)	5%
Management	20%	Institutional Framework	10%
		Operating History	10%
Debt/Pensions	20%	Debt to Full Value	5%
		Debt to Revenue	5%
		Moody's Adjusted Net Pension	50/
		Liability (3-Year Average) to Full Value	5%
		Moody's Adjusted Net Pension	5%
		Liability (3-Year Average) to Revenue	570



Municipal Advisor Disclosure



The enclosed information relates to an existing or potential municipal advisor engagement.

The U.S. Securities and Exchange Commission (the "SEC") has clarified that a broker, dealer or municipal securities dealer engaging in municipal advisory activities outside the scope of underwriting a particular issuance of municipal securities should be subject to municipal advisor registration. Davenport & Company LLC ("Davenport") has registered as a municipal advisor with the SEC. As a registered municipal advisor Davenport may provide advice to a municipal entity or obligated person. An obligated person is an entity other than a municipal entity, such as a not for profit corporation, that has commenced an application or negotiation with an entity to issue municipal securities on its behalf and for which it will provide support. If and when an issuer engages Davenport to provide financial advisory or consultant services with respect to the issuance of municipal securities, Davenport is obligated to evidence such a financial advisory relationship with a written agreement.

When acting as a registered municipal advisor Davenport is a fiduciary required by federal law to act in the best interest of a municipal entity without regard to its own financial or other interests. Davenport is not a fiduciary when it acts as a registered investment advisor, when advising an obligated person, or when acting as an underwriter, though it is required to deal fairly with such persons,

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The value of and income from investments and the cost of borrowing may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, market indexes, operational or financial conditions or companies or other factors. There may be time limitations on the exercise of options or other rights in securities/instruments transactions. Past performance is not necessarily a guide to future performance and estimates of future performance are based on assumptions that may not be realized. Actual events may differ from those assumed and changes to any assumptions may have a material impact on any projections or estimates. Other events not taken into account may occur and may significantly affect the projections or estimates. Certain assumptions will reflect actual future events. Accordingly, there can be no assurance that estimated returns or projections will be realized or that actual returns or performance results will not materially differ from those estimated herein. This material may not be sold or redistributed without the prior written consent of Davenport.

DAVENPORT PUBLIC FINANCE

CITY OF LAKE WORTH BEACH, FLORIDA

Electric Utility Cost of Service Study Update

PRESENTED BY: Craig Shepard, Project Manager

November 30, 2021



Electric COS Study Update

- Update Projected Sales for FY 2022 and FY 2023
- Update Natural Gas Costs
- Update Projected Revenue Requirements for FY 2022 and FY 2023
- Revise Rates based on the COS Analysis
- Revise Rates to Meet Long Term Working Capital Goal
- Revise rates according to City policies, the Federal Energy Regulatory Commission, and the Florida Public Service Commission guidelines

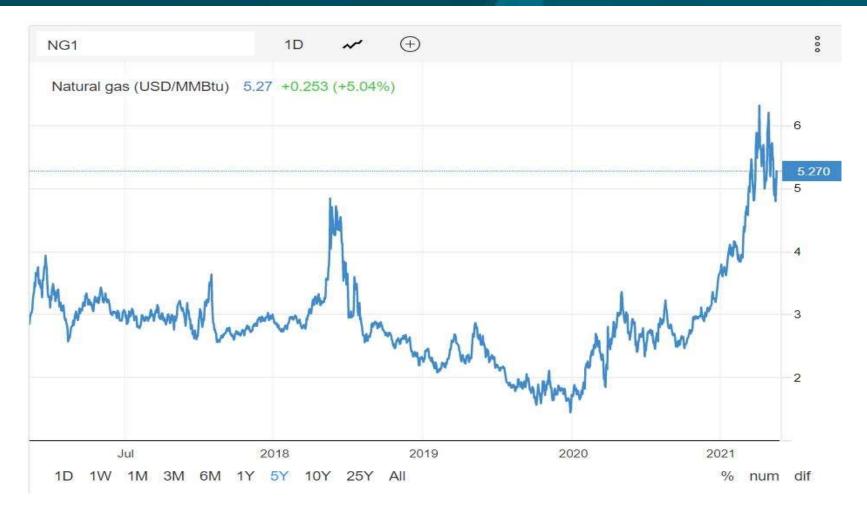
Natural Gas Prices

FY 2022 NYMEX Contract \$2.02/MMBtu Above Budget NYMEX Natural Gas FY22 Settlement as of Nov. 5, 2021



Source: FMPA

Natural Gas Prices



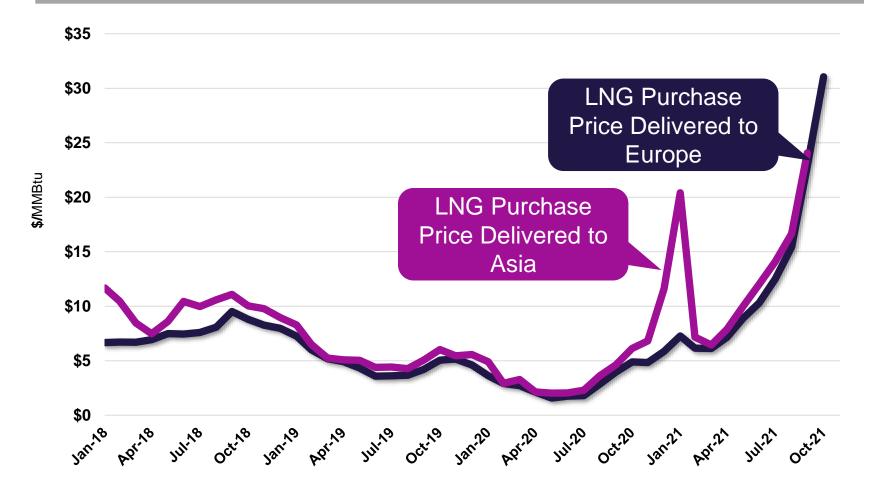
Source:tradingeconomics.com as of 11-16-21

Drilling Rig Count Increases, Oil Prices Move Higher Oil Prices Move into Low \$80 Range (as of Nov. 16)



Source:FMPA

Significant Increase in Global LNG Demand – China, EU Demand Driving Global Prices for LNG 600% Above U.S. Market

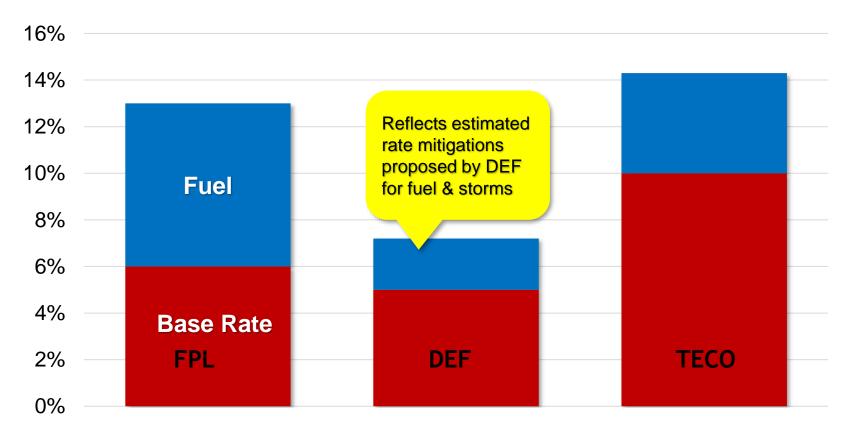


SOURCE: Ycharts for Europe

FRED Economic Data for Asia

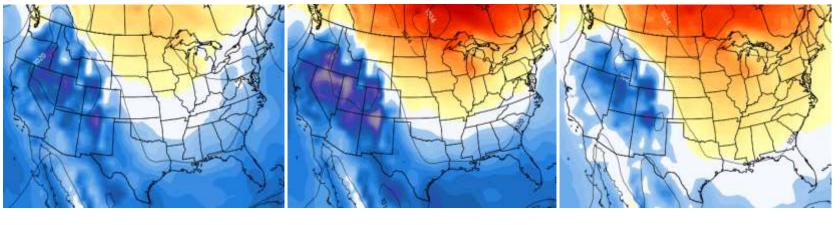
IOU Residential Rates Up ~11%* on Average in January Several Municipals Considering Power Cost Adjustments as Well

Estimated % Increase vs. Today, Effective January 2022



*Based on publicly available estimates from utility sources for approved settlements. Average is a weighted average of sales Source:FMPA

December to January Monthly Temperature Forecast U.S. Heating Region Projected to be Warmer than Normal



December January February

-10 -9.2 -8.4 -7.6 -6.8 -6 -5.2 -4.4 -3.6 -2.8 -2 -1.2 -0.4 0.4 1.2 2 2.8 3.6 4.4 5.2 6 6.8 7.6 8.4 9.2 10

SOURCE: Weather Bell

Rate Increase Alternatives

- Since September, Natural Gas Prices Have Increased Significantly
- Lake Worth Beach Is Less Sensitive to Natural Gas Price Increases Than Others
- Proposed Rates Recover Cost Increases over 18 Months (Effective April 2022) or 21 Months (Effective January 2022)
- Case 1: Move Toward Cost of Service, Effective April 2022
- Case 2: Even Increases by Rate Class, Effective April 2022
- Case 3: Move Toward Cost of Service, Effective January 2022
- Case 4: Even Increases by Rate Class, Effective January 2022

Rate Increase Alternatives

			Residential
	Residential	Commercial	<u>1000 kWh</u>
Case 1 COS April 22	8.0%	5.0%	\$116.65
Case 2 Even April 22	6.9%	6.9%	\$115.65
Case 3 COS Jan 22	7.0%	4.0%	\$115.45
Case 4 Even Jan 22	6.0%	6.0%	\$114.45
Existing Residential Rate			\$107.99
Neighboring Utility Proposed Jan 22			\$119.37

Desidential

Residential Rates Case 1

			Existing	Proposed 2022
Customer Charge		(\$)	\$10.53	\$10.55
Energy Charge	First 1,000 kWh	(\$/kWh)	\$0.05148	\$0.07000
Energy Charge	Additional kWh	(\$/kWh)	\$0.07880	\$0.09000
PCA	First 1,000 kWh	(\$/kWh)	\$0.03578	\$0.03610
PCA	Additional kWh	(\$/kWh)	\$0.03900	\$0.04610
Capacity Charge	All kWh	(\$/kWh)	\$0.01020	-
Minimum Bill			\$31.40	\$35.00
Total for 1,000 kW	Vh		\$107.99	\$116.65
Neighboring Utilit	y 1,000 kWh		\$106.47	\$119.37

Commercial Rates Case 1

		Existing	Proposed 2022
Customer Charge	(\$)	\$16.66	\$17.00
Energy Charge All kWh	(\$/kWh)	\$0.07040	\$0.08400
Power Cost Adjustment	(\$/kWh)	\$0.03578	\$0.03820
Capacity Charge	(\$/kWh)	\$0.01020	-
Minimum Bill - Single Phase		\$50.00	\$50.00
Minimum Bill - Poly Phase		\$50.00	\$100.00
Total for 1,500 kWh		\$191.23	\$200.30
Neighboring Utility 1,500 kWh		\$160.60	\$184.49

Commercial Demand Rates Case 1

		Existing	Proposed 2022
Customer Charge	(\$)	\$120.00	\$130.00
Demand Charge	(\$/kW)	\$14.48	\$12.00
Energy Charge All kWh	(\$/kWh)	\$0.03550	\$0.04950
Power Cost Adjustment	(\$/kWh)	\$0.02890	\$0.03820
Capacity Charge	(\$/kWh)	\$0.01020	-
Total for 30 kW and 6,000 kWh		\$1,002.00	\$1,016.20
Neighboring Utility 30 kW 6,	000 kWh	\$717.49	\$791.98

Residential Rates Case 1

Existing		P	roposed	Difference		
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
500	59.26	11.852	63.60	12.720	4.34	0.868
600	69.01	11.501	74.21	12.368	5.20	0.867
700	78.75	11.250	84.82	12.117	6.07	0.867
800	88.50	11.062	95.43	11.929	6.93	0.867
900	98.24	10.916	106.04	11.782	7.80	0.866
1,000	107.99	10.799	116.65	11.665	8.66	0.866
1,100	120.79	10.981	130.26	11.842	9.47	0.861
1,200	133.59	11.133	143.87	11.989	10.28	0.857
1,300	146.39	11.261	157.48	12.114	11.09	0.853
1,400	159.19	11.371	171.09	12.221	11.90	0.850
1,500	171.99	11.466	184.70	12.313	12.71	0.847
2,000	235.99	11.800	252.75	12.638	16.76	0.838
2,500	299.99	12.000	320.80	12.832	20.81	0.832
3,000	363.99	12.133	388.85	12.962	24.86	0.829
4,000	491.99	12.300	524.95	13.124	32.96	0.824
5,000	619.99	12.400	661.05	13.221	41.06	0.821

Commercial Rates Case 1

Existing		P	roposed	Difference		
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
1,000	133.04	13.304	139.20	13.920	6.16	0.616
1,250	162.14	12.971	169.75	13.580	7.62	0.609
1,500	191.23	12.749	200.30	13.353	9.07	0.605
1,750	220.33	12.590	230.85	13.191	10.53	0.601
1,900	237.78	12.515	249.18	13.115	11.40	0.600
2,000	249.42	12.471	261.40	13.070	11.98	0.599
3,000	365.80	12.193	383.60	12.787	17.80	0.593
4,000	482.18	12.055	505.80	12.645	23.62	0.590
5,000	598.56	11.971	628.00	12.560	29.44	0.589
6,000	714.94	11.916	750.20	12.503	35.26	0.588
7,000	831.32	11.876	872.40	12.463	41.08	0.587
8,000	947.70	11.846	994.60	12.433	46.90	0.586
9,000	1,064.08	11.823	1,116.80	12.409	52.72	0.586
10,000	1,180.46	11.805	1,239.00	12.390	58.54	0.585

Commercial Demand Rates Case 1

			Existi	ng	Pi	roposed	Differe	nce
Demand	Hours	Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
30	200	6,000	1,002.00	16.700	1,016.20	16.937	14.20	0.237
	300	9,000	1,225.80	13.620	1,279.30	14.214	53.50	0.594
	400	12,000	1,449.60	12.080	1,542.40	12.853	92.80	0.773
150	200	30,000	4,530.00	15.100	4,561.00	15.203	31.00	0.103
	300	45,000	5,649.00	12.553	5,876.50	13.059	227.50	0.506
	400	60,000	6,768.00	11.280	7,192.00	11.987	424.00	0.707
500	200	100,000	14,820.00	14.820	14,900.00	14.900	80.00	0.080
	300	150,000	18,550.00	12.367	19,285.00	12.857	735.00	0.490
	400	200,000	22,280.00	11.140	23,670.00	11.835	1,390.00	0.695

Residential Rates Case 2

			Existing	Proposed 2022
Customer Charge		(\$)	\$10.53	\$10.55
Energy Charge	First 1,000 kWh	(\$/kWh)	\$0.05148	\$0.06900
Energy Charge	Additional kWh	(\$/kWh)	\$0.07880	\$0.08900
PCA	First 1,000 kWh	(\$/kWh)	\$0.03578	\$0.03610
PCA	Additional kWh	(\$/kWh)	\$0.03900	\$0.04610
Capacity Charge	All kWh	(\$/kWh)	\$0.01020	-
Minimum Bill			\$31.40	\$35.00
Total for 1,000 kW	Vh		\$107.99	\$115.65
Neighboring Utilit	y 1,000 kWh		\$106.47	\$119.37

Commercial Rates Case 2

		Existing	Proposed 2022
Customer Charge	(\$)	\$16.66	\$17.00
Energy Charge All kWh	(\$/kWh)	\$0.07040	\$0.08700
Power Cost Adjustment	(\$/kWh)	\$0.03578	\$0.03820
Capacity Charge	(\$/kWh)	\$0.01020	-
Minimum Bill - Single Phase		\$50.00	\$50.00
Minimum Bill - Poly Phase		\$50.00	\$100.00
Total for 1,500 kWh		\$191.23	\$204.80
Neighboring Utility 1,500 kWh		\$160.60	\$184.49

Commercial Demand Rates Case 2

		Existing	Proposed 2022
Customer Charge	(\$)	\$120.00	\$130.00
Demand Charge	(\$/kW)	\$14.48	\$12.00
Energy Charge All kWh	(\$/kWh)	\$0.03550	\$0.05200
Power Cost Adjustment	(\$/kWh)	\$0.02890	\$0.03820
Capacity Charge	(\$/kWh)	\$0.01020	-
Total for 30 kW and 6,000 kW	h	\$1,002.00	\$1,031.20
Neighboring Utility 30 kW 6	5,000 kWh	\$717.49	\$791.98

Residential Rates Case 2

Existing		ting	Proposed		Difference	
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
500	59.26	11.852	63.10	12.620	3.84	0.768
600	69.01	11.501	73.61	12.268	4.60	0.767
700	78.75	11.250	84.12	12.017	5.37	0.767
800	88.50	11.062	94.63	11.829	6.13	0.766
900	98.24	10.916	105.14	11.682	6.90	0.766
1,000	107.99	10.799	115.65	11.565	7.66	0.766
1,100	120.79	10.981	129.16	11.742	8.37	0.761
1,200	133.59	11.133	142.67	11.889	9.08	0.757
1,300	146.39	11.261	156.18	12.014	9.79	0.753
1,400	159.19	11.371	169.69	12.121	10.50	0.750
1,500	171.99	11.466	183.20	12.213	11.21	0.747
2,000	235.99	11.800	250.75	12.538	14.76	0.738
2,500	299.99	12.000	318.30	12.732	18.31	0.732
3,000	363.99	12.133	385.85	12.862	21.86	0.729
4,000	491.99	12.300	520.95	13.024	28.96	0.724
5,000	619.99	12.400	656.05	13.121	36.06	0.721

Commercial Rates Case 2

	Existi	ng	Proposed		Difference	
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
1,000	133.04	13.304	142.20	14.220	9.16	0.916
1,250	162.14	12.971	173.50	13.880	11.37	0.909
1,500	191.23	12.749	204.80	13.653	13.57	0.905
1,750	220.33	12.590	236.10	13.491	15.78	0.901
1,900	237.78	12.515	254.88	13.415	17.10	0.900
2,000	249.42	12.471	267.40	13.370	17.98	0.899
3,000	365.80	12.193	392.60	13.087	26.80	0.893
4,000	482.18	12.055	517.80	12.945	35.62	0.890
5,000	598.56	11.971	643.00	12.860	44.44	0.889
6,000	714.94	11.916	768.20	12.803	53.26	0.888
7,000	831.32	11.876	893.40	12.763	62.08	0.887
8,000	947.70	11.846	1,018.60	12.733	70.90	0.886
9,000	1,064.08	11.823	1,143.80	12.709	79.72	0.886
10,000	1,180.46	11.805	1,269.00	12.690	88.54	0.885

Commercial Demand Rates Case 2

			Existi	ng	Рі	roposed	Differe	nce
Demand	Hours	Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
30	200	6,000	1,002.00	16.700	1,031.20	17.187	29.20	0.487
	300	9,000	1,225.80	13.620	1,301.80	14.464	76.00	0.844
	400	12,000	1,449.60	12.080	1,572.40	13.103	122.80	1.023
150	200 300 400	30,000 45,000 60,000	4,530.00 5,649.00 6,768.00	15.100 12.553 11.280	4,636.00 5,989.00 7,342.00	15.453 13.309 12.237	106.00 340.00 574.00	0.353 0.756 0.957
500	200 300 400	100,000 150,000 200,000	14,820.00 18,550.00 22,280.00	14.820 12.367 11.140	15,150.00 19,660.00 24,170.00	15.150 13.107 12.085	330.00 1,110.00 1,890.00	0.330 0.740 0.945

Residential Rates Case 3

			Existing	Proposed 2022
Customer Charge		(\$)	\$10.53	\$10.55
Energy Charge	First 1,000 kWh	(\$/kWh)	\$0.05148	\$0.07000
Energy Charge	Additional kWh	(\$/kWh)	\$0.07880	\$0.09000
PCA	First 1,000 kWh	(\$/kWh)	\$0.03578	\$0.03490
PCA	Additional kWh	(\$/kWh)	\$0.03900	\$0.04490
Capacity Charge	All kWh	(\$/kWh)	\$0.01020	-
Minimum Bill			\$31.40	\$35.00
Total for 1,000 kV	Vh		\$107.99	\$115.45
Neighboring Utilit	y 1,000 kWh		\$106.47	\$119.37

Commercial Rates Case 3

Existing	Proposed 2022
\$16.66	\$17.00
\$0.07040	\$0.08400
\$0.03578	\$0.03700
\$0.01020	-
\$50.00	\$50.00
\$50.00	\$100.00
\$191.23	\$198.50
\$160.60	\$184.49
	\$0.07040 \$0.03578 \$0.01020 \$50.00 \$50.00 \$191.23

Commercial Demand Rates Case 3

		Existing	Proposed 2022
Customer Charge	(\$)	\$120.00	\$130.00
Demand Charge	(\$/kW)	\$14.48	\$12.00
Energy Charge All kWh	(\$/kWh)	\$0.03550	\$0.04950
Power Cost Adjustment	(\$/kWh)	\$0.02890	\$0.03700
Capacity Charge	(\$/kWh)	\$0.01020	-
Total for 30 kW and 6,000 kW	ĥ	\$1,002.00	\$1,009.00
Neighboring Utility 30 kW 6	,000 kWh	\$717.49	\$791.98

Residential Rates Case 3

	Exis	Existing Proposed		Proposed		rence
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
500	59.26	11.852	63.00	12.600	3.74	0.748
600	69.01	11.501	73.49	12.248	4.48	0.747
700	78.75	11.250	83.98	11.997	5.23	0.747
800	88.50	11.062	94.47	11.809	5.97	0.746
900	98.24	10.916	104.96	11.662	6.72	0.746
1,000	107.99	10.799	115.45	11.545	7.46	0.746
1,100	120.79	10.981	128.94	11.722	8.15	0.741
1,200	133.59	11.133	142.43	11.869	8.84	0.737
1,300	146.39	11.261	155.92	11.994	9.53	0.733
1,400	159.19	11.371	169.41	12.101	10.22	0.730
1,500	171.99	11.466	182.90	12.193	10.91	0.727
2,000	235.99	11.800	250.35	12.518	14.36	0.718
2,500	299.99	12.000	317.80	12.712	17.81	0.712
3,000	363.99	12.133	385.25	12.842	21.26	0.709
4,000	491.99	12.300	520.15	13.004	28.16	0.704
5,000	619.99	12.400	655.05	13.101	35.06	0.701

Commercial Rates Case 3

	Existi	ng	Proposed		Difference	
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
1,000	133.04	13.304	138.00	13.800	4.96	0.496
1,250	162.14	12.971	168.25	13.460	6.12	0.489
1,500	191.23	12.749	198.50	13.233	7.27	0.485
1,750	220.33	12.590	228.75	13.071	8.43	0.481
1,900	237.78	12.515	246.90	12.995	9.12	0.480
2,000	249.42	12.471	259.00	12.950	9.58	0.479
3,000	365.80	12.193	380.00	12.667	14.20	0.473
4,000	482.18	12.055	501.00	12.525	18.82	0.470
5,000	598.56	11.971	622.00	12.440	23.44	0.469
6,000	714.94	11.916	743.00	12.383	28.06	0.468
7,000	831.32	11.876	864.00	12.343	32.68	0.467
8,000	947.70	11.846	985.00	12.313	37.30	0.466
9,000	1,064.08	11.823	1,106.00	12.289	41.92	0.466
10,000	1,180.46	11.805	1,227.00	12.270	46.54	0.465

Commercial Demand Rates Case 3

			Existi	ng	Рі	roposed	Differe	nce
Demand	Hours	Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
30	200	6,000	1,002.00	16.700	1,009.00	16.817	7.00	0.117
	300	9,000	1,225.80	13.620	1,268.50	14.094	42.70	0.474
	400	12,000	1,449.60	12.080	1,528.00	12.733	78.40	0.653
150	200 300 400	30,000 45,000 60,000	4,530.00 5,649.00 6,768.00	15.100 12.553 11.280	4,525.00 5,822.50 7,120.00	15.083 12.939 11.867	(5.00) 173.50 352.00	(0.017) 0.386 0.587
500	200 300 400	100,000 150,000 200,000	14,820.00 18,550.00 22,280.00	14.820 12.367 11.140	14,780.00 19,105.00 23,430.00	14.780 12.737 11.715	(40.00) 555.00 1,150.00	(0.040) 0.370 0.575

Residential Rates Case 4

			Existing	Proposed 2022
Customer Charge		(\$)	\$10.53	\$10.55
Energy Charge	First 1,000 kWh	(\$/kWh)	\$0.05148	\$0.06900
Energy Charge	Additional kWh	(\$/kWh)	\$0.07880	\$0.08900
PCA	First 1,000 kWh	(\$/kWh)	\$0.03578	\$0.03490
PCA	Additional kWh	(\$/kWh)	\$0.03900	\$0.04490
Capacity Charge	All kWh	(\$/kWh)	\$0.01020	-
Minimum Bill			\$31.40	\$35.00
Total for 1,000 kV	Vh		\$107.99	\$114.45
Neighboring Utilit	y 1,000 kWh		\$106.47	\$119.37

Commercial Rates Case 4

		Existing	Proposed 2022
Customer Charge	(\$)	\$16.66	\$17.00
Energy Charge All kWh	(\$/kWh)	\$0.07040	\$0.08700
Power Cost Adjustment	(\$/kWh)	\$0.03578	\$0.03700
Capacity Charge	(\$/kWh)	\$0.01020	-
Minimum Bill - Single Phase		\$50.00	\$50.00
Minimum Bill - Poly Phase		\$50.00	\$100.00
Total for 1,500 kWh		\$191.23	\$203.00
Neighboring Utility 1,500 kWh		\$160.60	\$184.49

Commercial Demand Rates Case 4

		Existing	Proposed 2022
Customer Charge	(\$)	\$120.00	\$130.00
Demand Charge	(\$/kW)	\$14.48	\$12.00
Energy Charge All kWh	(\$/kWh)	\$0.03550	\$0.05200
Power Cost Adjustment	(\$/kWh)	\$0.02890	\$0.03700
Capacity Charge	(\$/kWh)	\$0.01020	-
Total for 30 kW and 6,000 kWh		\$1,002.00	\$1,024.00
Neighboring Utility 30 kW 6	,000 kWh	\$717.49	\$791.98

Residential Rates Case 4

	Existing		P	roposed	Difference	
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
500	59.26	11.852	62.50	12.500	3.24	0.648
600	69.01	11.501	72.89	12.148	3.88	0.647
700	78.75	11.250	83.28	11.897	4.53	0.647
800	88.50	11.062	93.67	11.709	5.17	0.647
900	98.24	10.916	104.06	11.562	5.82	0.646
1,000	107.99	10.799	114.45	11.445	6.46	0.646
1,100	120.79	10.981	127.84	11.622	7.05	0.641
1,200	133.59	11.133	141.23	11.769	7.64	0.637
1,300	146.39	11.261	154.62	11.894	8.23	0.633
1,400	159.19	11.371	168.01	12.001	8.82	0.630
1,500	171.99	11.466	181.40	12.093	9.41	0.627
2,000	235.99	11.800	248.35	12.418	12.36	0.618
2,500	299.99	12.000	315.30	12.612	15.31	0.612
3,000	363.99	12.133	382.25	12.742	18.26	0.609
4,000	491.99	12.300	516.15	12.904	24.16	0.604
5,000	619.99	12.400	650.05	13.001	30.06	0.601

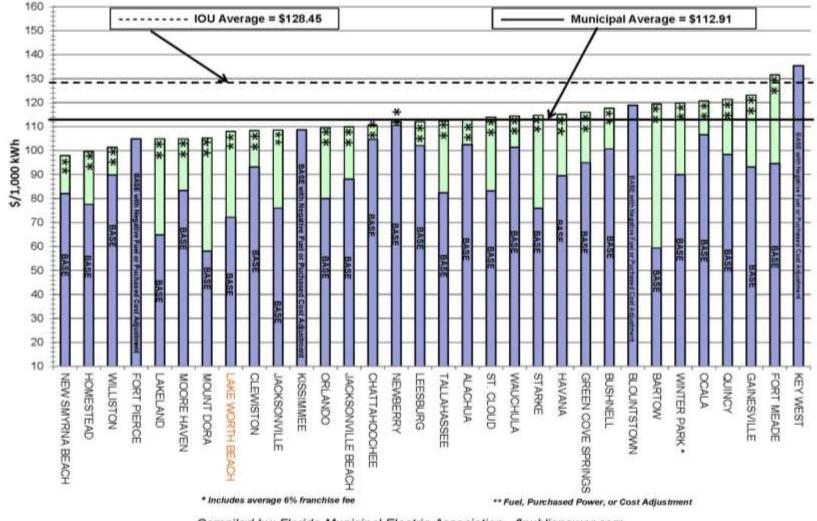
Commercial Rates Case 4

	Existi	ng	Proposed		Difference	
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
1,000	133.04	13.304	141.00	14.100	7.96	0.796
1,250	162.14	12.971	172.00	13.760	9.87	0.789
1,500	191.23	12.749	203.00	13.533	11.77	0.785
1,750	220.33	12.590	234.00	13.371	13.68	0.781
1,900	237.78	12.515	252.60	13.295	14.82	0.780
2,000	249.42	12.471	265.00	13.250	15.58	0.779
3,000	365.80	12.193	389.00	12.967	23.20	0.773
4,000	482.18	12.055	513.00	12.825	30.82	0.770
5,000	598.56	11.971	637.00	12.740	38.44	0.769
6,000	714.94	11.916	761.00	12.683	46.06	0.768
7,000	831.32	11.876	885.00	12.643	53.68	0.767
8,000	947.70	11.846	1,009.00	12.613	61.30	0.766
9,000	1,064.08	11.823	1,133.00	12.589	68.92	0.766
10,000	1,180.46	11.805	1,257.00	12.570	76.54	0.765

Commercial Demand Rates Case 4

			Existi	ng	P	roposed	Differe	nce
Demand	Hours	Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)
30	200	6,000	1,002.00	16.700	1,024.00	17.067	22.00	0.367
	300	9,000	1,225.80	13.620	1,291.00	14.344	65.20	0.724
	400	12,000	1,449.60	12.080	1,558.00	12.983	108.40	0.903
150	200 300 400	30,000 45,000 60,000	4,530.00 5,649.00 6,768.00	15.100 12.553 11.280	4,600.00 5,935.00 7,270.00	15.333 13.189 12.117	70.00 286.00 502.00	0.233 0.636 0.837
500	200 300 400	100,000 150,000 200,000	14,820.00 18,550.00 22,280.00	14.820 12.367 11.140	15,030.00 19,480.00 23,930.00	15.030 12.987 11.965	210.00 930.00 1,650.00	0.210 0.620 0.825

Comparison of Residential Bills 1,000 kWh – September 2021



Compiled by: Florida Municipal Electric Association - flpublicpower.com

Recommendations

- Revise Rates to Reflect Current Costs
- Move Rates More Toward Cost of Service
- Increase Minimum Bills to Help Cover Fixed Costs
- Revise Purchased Cost Adjustment (PCA)
- Establish Rate Stabilization Fund
- Consider Economic Development Rider

Questions / Comments

POINTS OF CONTACT

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Electric Cost of Service Study

City of Lake Worth Beach, Florida



November 2021



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November 17, 2021

The Honorable Mayor and City Commission City of Lake Worth Beach City Hall, 1900 2nd Avenue North Lake Worth Beach, Florida 33461

Subject: Electric Cost of Service Study

Honorable Mayor and Commissioners:

In keeping with the provisions of the professional services agreement between the City of Lake Worth Beach, Florida (the City) and Leidos Engineering, LLC, (the Consultant) and the direction provided by the City management and staff, the Electric Cost of Service Study (the Report) has been completed. The Report addresses the projected financial operations of the City's electric system (Electric System) for the fiscal years ending September 30, 2020 through 2024. We have summarized our assumptions and the results of our analyses and conclusions in this Report, which we hereby submit for your consideration. This Report summarizes the basis for the proposed rates for electric service that are necessary to meet the projected revenue requirements in the near future and which rates should recover such projected requirements from the customer classes generally in accordance with the direction provided by the City, the guidelines of the Florida Public Service Commission (the PSC) and the results of the allocated cost of service analyses.

In preparing the Electric Cost of Service Study, the Consultant relied upon historical and projected data for the development of operating revenues, operating expenses and capital requirements. Historical data were obtained from various monthly reports, the City's Comprehensive Annual Financial Reports, actual customer billing records, and analyses and discussions with members of the City management and staff. Projected data were, in part, derived from the Electric System's current forecast of demand and energy requirements, the Electric System Operating Budget for Fiscal Year 2020 (the Budget), and detailed information and data compiled and provided by members of the City management and staff.

The projected costs and revenues used in this Report are for the fiscal years ending September 30, 2020 through 2024, and have been developed using the City's Budget as a basis for the projected costs. Such costs and revenues, as initially reflected in the Budget, were adjusted for known or anticipated changes, including recent increases in natural gas costs.

SUMMARY OF FINDINGS

ADEQUACY OF EXISTING RATES

The various adjustments, assumptions and considerations are discussed in Section 2 regarding the projected number of customers, sales, and in Section 3 regarding the projected revenues and expenditures. In the fiscal years ending September 30, 2020 through 2024, the revenue requirements proposed herein include Operation and Maintenance expenses, a transfer to the City's General Fund, capital improvement expenditures, the payment of principal and interest on outstanding indebtedness, and an allowance for contingencies and reserves. Based on the foregoing, the Electric System revenue requirements for fiscal years ending September 30, 2020 through 2024 and the projected revenues, assuming the existing rates, are summarized on the following table:

	Projected				
Description	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Net Revenue Requirements	\$58,158,995	\$58,300,746	\$64,422,550	\$62,237,218	\$61,950,862
Total Existing Rate Revenue	58,558,995	58,931,674	59,307,414	59,686,250	60,068,214
Surplus/(Deficiency)	\$400,000	\$630,927	(\$5,115,136)	(\$2,550,968)	(\$1,882,649)
Percent of Base and Fuel Revenue	0.8%	1.2%	-10.0%	-5.0%	-3.6%

As shown above, the existing rates produce revenues that are slightly greater than the projected revenue requirements in the fiscal years ending September 30, 2020 and 2021 and under recover the projected revenue requirements in the fiscal years ending September 30, 2022 through 2024.

Based on the analyses in this Report, the proposed rates represent a realignment of costs allocated among the residential and commercial classes. It is projected that the proposed rates will help to meet the projected revenue requirements for the fiscal year ending September 30, 2022. For certain analyses, the "Test Year" has been identified as the fiscal year ending September 30, 2020.

COST OF SERVICE RESULTS

The Test Year revenue requirements were allocated to the customer classes based on a cost of service model that functionalizes costs among production, transmission, distribution and customer costs, and classifies costs according to demand related or energy related costs. Production (purchased power) demand related costs were allocated based on the contribution of each class to the average 12 month coincident peak demands and distribution demand related costs were allocated based on the contribution of each class to the annual system peak demand. Section 4 shows the development of allocation factors and Section 5 shows the results of the cost of service analysis.

The results of the cost of service analysis and target adjustments for the fiscal year ending September 30, 2022 are summarized as follows:

	Fiscal Year 2022				
	Total Existing Revenue	Target Ad	justments		
Customer Class	(\$000)	(\$000)	(%) [1]		
Residential	\$36,200	\$2,896	8.0%		
Commercial	16,151	\$808	5.0%		
Commercial Demand	6,162	\$308	5.0%		
Lighting	700	\$35	5.0%		
Total System	\$59,213	\$4,047	6.8%		

[1] Percent of existing base rates and PCA revenues.

RATE DESIGN

The proposed electric rates shown in Section 6 reflect, to the extent permitted, (i) the lowest possible price consistent with the projected revenue requirements, (ii) the discouragement of wasteful, unnecessary use of service, (iii) the policies of the City, and (iv) the cost of service methodologies recommended by the Florida Public Service Commission (the PSC).

The principal effects of adopting the rates proposed herein would be:

- Rate structures and levels, in general, will be based, in part, on allocated cost of service techniques.
- Fuel and purchased power costs will continue to be shown in a separate charge, the Purchased Power Cost Adjustment (PCA).
- The proposed rates will help to meet the projected revenue requirements for the fiscal year ending September 30, 2022.

RATE COMPARISONS

To assist the City in its evaluation and consideration of proposed rate adjustments, included in Table No. 7-1 are comparisons of typical monthly bills for the major rate classifications at various levels of usage. Typical bills calculated under the proposed rates have been compared with bills calculated under the existing rates. In addition, typical monthly bills calculated under the Electric System's existing and proposed rates have been compared with those calculated under the rates of other Florida investor-owned and municipal electric utilities in Table No. 7-2 for the billing month of January 2021.

When reviewing the comparisons of typical bills, it must be recognized that a substantial portion of the electric bill is comprised of fuel and purchased energy costs. For electric utilities other than the Electric System, the bill comparisons shown reflect fuel costs that were estimated in early 2021 and may not reflect actual current market prices for gas, oil and purchased energy.

As shown on Table No. 7-1, typical residential customers' bills under the proposed rates are approximately 8 percent higher than the existing rates, and typical commercial customers' bills can be expected to increase by approximately 5 percent on average.

CONCLUSIONS

Based upon the results of our studies and analyses as summarized in this Report, which should be read in its entirety in conjunction with the following, and upon the numerous underlying assumptions and considerations relied upon in making such analyses and incorporated by reference herein, and the data and information provided by the City's management and staff and others, we are of the opinion that:

- (i) The existing rates produce revenues that are approximately equal to the projected revenue requirements in the fiscal years ending September 30, 2020 through 2021 and under recover the projected revenue requirements in the fiscal years ending September 30, 2022 through 2024;
- (ii) The proposed rates reflect a realignment of costs among the residential and commercial rate classes, and are projected to help meet the revenue requirements for the fiscal year ending September 30, 2022.
- (iii) The City should consider adopting the proposed rates shown in Section 6.
- (iv) The City should consider establishing a Rate Stabilization Fund to mitigate fluctuations in purchased power costs.
- (v) The City's existing and proposed rates are comparable to other Florida electric utilities;
- (vi) The City may want to investigate additional rate offerings such as an Economic Development Rider, Residential Time of Use Rate, Solar Subscription Rate, or Electric Vehicle Rate;
- (vii) The City should continue to monitor the cost of purchased power and current market conditions and should make adjustments, if necessary, to its power cost recovery factor to reflect such costs and conditions and to minimize the potential to under recover or over recover its fuel costs; and
- (viii) The City should consider submitting this Report, together with other appropriate filing requirements, to the PSC.

We are prepared to present our analyses and proposed rates to the City Commission and to assist the City with public meetings, with PSC filing requirements, and with presentations in connection with the adoption and implementation of the proposed rates.

We want to take this opportunity to express our appreciation for the spirited cooperation and valuable assistance given us throughout the course of this study by each member of the City management and staff.

Respectfully submitted,

LEIDOS ENGINEERING, LLC

Electric Cost of Service Study City of Lake Worth Beach, Florida

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Introduction

The City of Lake Worth Beach (City), located in south Florida, operates a municipal utility system serving 473,590 MWh in 2019 with a system peak load of 97.2 MW. Lake Worth Beach currently meets its load requirements using a variety of resources, including self-owned and self-operated on-site generation assets and off-site resources as a member of Florida Municipal Power Agency (FMPA). As a participant in FMPA Projects, the City benefits from the associated capacity and energy (Generation Entitlements) to meet its customers' load requirements.

Leidos Engineering, LLC, (the Consultant or the firm) conducted this study, which relied upon historical and projected data for the development of operating revenues, operating expenses, and capital requirements. Historical data was obtained from various monthly reports, annual financial reports, actual billing records, analyses, and discussions with members of the management and staff of the City. Projected data was, in part, derived from historical data adjusted for current economic conditions, the Operating Budget for Fiscal Year ending September 30, 2020 and the Capital Improvement Plan for Fiscal Years 2020 through 2024, the City's demand and energy forecasts (including the effects of conservation), the various contracts, and the direction and instructions provided by the City, and other appropriate sources.

Purpose

The primary purposes of the Electric Rate Study are:

- 1. To determine the estimated annual revenue requirements for the Fiscal Year ending September 30, 2020, as adjusted for known changes (the Test Year); and Fiscal Years ending September 30, 2021 through 2024 (Study Period).
- 2. To test the adequacy of the existing rates on a system wide basis for the Fiscal Years 2020 through 2024;
- 3. To prepare a cost of service analysis to estimate the cost of providing electric service by customer class;
- 4. To adjust rate levels, if necessary, in order to recover the cost of providing service, and to reflect the policies established by the City; and
- 5. To continue to recover periodically the costs of purchased power.

Scope

The overall scope of services of the Electric Rate Study provided for (i) the development of a revenue requirements study for the Test Year and Study Period; (ii) the development



of proposed rate levels and rate structures that are designed to recover the revenue requirements for the Test Year and Study Period which reflect the City's policy and industry practices; and (iii) the development of comparisons of typical bills for electric service calculated using the existing and proposed rates and the rates charged by neighboring private and public electric utilities.

The Electric Rate Study consists of two parts or phases. The results are presented in this report. Working closely with management and staff, Phase I activities included, among other things, (i) obtaining and reviewing historical billing data, (ii) reconciling such data, (iii) identifying the proper sales forecast to use for purposes of projecting rate revenues and costs (iv) projecting billing determinants in order to calculate the effect on revenues based on revised rates, (v) preparing projections of revenues by major customer class, (vi) developing projected annual revenue requirements for the Test Year and Study Period, (vii) preparing a comparison of the City's existing rates and the rates of other utilities, and (viii) preparing a Phase I report.

Phase II includes (i) the making of revisions to the revenue requirements, (ii) the affirmation of City policies and direction, (iii) the allocation of costs, (iv) the design of proposed rates, and (v) the preparation of a final report.

General

The development of an accurate forecast of future power and energy requirements, sales, customers, and customer usage characteristics, is essential in the evaluation of the adequacy of electric rates and rate structures. This section summarizes the various factors considered and utilized in the development of the City's near term future power and energy requirements.

The estimates of energy and demand requirements developed for inclusion in this study were based on historical sales, customers, and customer usage characteristics.

Energy Requirements

Projection of Electricity Sales to Ultimate Customers

The projections of electric energy sales to ultimate customers are based on an analysis of historical information for the fiscal year ended September 30, 2019. Historical growth, usage patterns, and normalized weather were tested for reasonableness.

Based on information filed with the Energy Information Administration (EIA) and information provided by the City, the following tables show the historical number of residential and commercial customers and residential and commercial energy sales.

Historical Number of Customers						
Fiscal Year	Residential	Commercial	Total			
2014	22,179	3,648	25,827			
2015	22,830	3,728	26,558			
2016	23,053	3,739	26,792			
2017	23,357	3,748	27,105			
2018	23,399	3,746	27,145			
2019	23,528	3,748	27,276			
2020	23,758	3,763	27,520			

Historical Retail Energy Sales (MWh)							
Fiscal Year	Fiscal Year Residential		Total				
2014	195,937	177,660	373,597				
2015	225,813	204,532	430,345				
2016	254,734	180,024	434,758				
2017	244,928	183,819	428,747				
2018	253,196	179,990	433,186				
2019	260,305	179,662	439,967				
2020	264,974	169,047	434,021				

Based on information provided by the City, it was projected that the reported number of customers and kWh sales would increase by 0.5% annually for the projected fiscal year 2021, and Study Period.

Projected Demand

The historical system peak demand for the fiscal year ending September 30, 2019 was 97.2 MW. For purposes of this Study, it was projected that the system peak demand the Test Year would be 96.8 MW.

Projected Energy Sales

The monthly system historical and projected energy sales are set forth in Table No. 2-1, page 2. The following tabulation is an annual summary of the historical and projected energy sales by major customer class:

Retail Energy Sales (MWh)						
Fiscal Year	Residential	Commercial	Total			
Historical 2019	260,305	179,662	439,967			
Historical 2020	264,974	169,047	434,021			
Projected 2021	268,937	165,635	434,572			

As can be seen from the summary table, energy sales in fiscal years ended September 30, 2019 were 439,967 MWh and 434,021 MWh in Fiscal Year 2020. Sales in Fiscal Year 2021 and the Study Period are based on a projected annual growth rate of 0.5 percent.

Projected Average Number of Customers

An integral part of the forecasting process is the average number of customers the City expects to serve by major customer class. The detailed historical and projected customers are set forth on Table No. 2-1, page 1. The following is a summary of the historical and projected average number of customers used as a basis for this study:

Average Number of Customers											
Fiscal Year Residential Commercial											
Historical 2019	23,528	3,748	27,276								
Historical 2020	23,758	3,763	27,520								
Projected 2021	24,070	3,842	27,911								

Purchased Power

The City purchases capacity and energy requirements from a variety of sources, including the FMPA.

Energy Losses

The loss factors utilized in developing the projected energy requirements for the Test Year are 7.3 percent of annual energy requirements and 7.8 percent of energy sales. This factor is used to take into account transmission and distribution losses and unaccounted for energy and demand.

Summary of Projected Demand and Energy Requirements

The following tabulation sets forth the projected annual peak demand at the generation level, energy requirements and the system load factor used in this study:

Description	2020 Test Year
Annual 60-Minute Peak Demand (MW)	96.8
Annual Energy Sales (MWh)	434,021
Losses and Unaccounted for Energy (MWh)	33,854
Annual Energy Requirements (MWh)	467,875
Annual System Load Factor (%)	<u>55.2</u> %

Customer Statistics

Projected customer statistics by major rate classification are set forth on Table No. 2-1 and No. 2-2. Table No. 2-1 sets forth for fiscal years ending September 30, 2019, 2020 and 2021 the historical and projected number of customers and energy sales. Table No. 2-2 sets forth the projected annual billing determinants by major rate classes for fiscal year 2020. The projected average annual number of customers and annual energy sales for the fiscal year ending September 30, 2020 incorporate the following considerations:

- i. continuation of recent historical sales and/or usage characteristics;
- ii. continuation of past, present, and projected conservation and demand-side management programs; and

iii. continuation of the existing regulatory structure.

Any departure from those assumptions (e.g., change in economic activity) could have a material adverse effect on energy sales and revenues.

As derived from Table No. 2-1 and No. 2-2, the projected fiscal year 2020 composition of the City's ultimate customers and associated energy sales by major rate classification is tabulated below:

		Test Year 2020												
Customer Class	Average Number of Customers	Percent of Total	Annual MWh Sales	Percent of Total										
Residential	23,758	86.3%	264,974	61.1%										
Commercial	3,128	11.4%	115,953	26.7%										
Commercial Demand	85	0.3%	49,286	11.4%										
Lighting	550	2.0%	3,808	0.9%										
Total Customers														
and MWh Sales	27,520	100.0%	434,021	100.0%										

Historical and Projected Customers Fiscal Years 2019-2021

No.	Customer Classes	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)
	Historical FY 2019	_													
	Regular Residential (Schedule R-S)														
1	Residential (Regular)	23,474	23,322	23,408	23,401	23,395	23,462	23,502	23,498	23,431	23,607	23,651	23,464	281,615	23,468
2	Residential Net Metering	0	0	0	71	78	77	78	82	83	81	86	87	723	60
3	Subtotal Residential	23,474	23,322	23,408	23,472	23,473	23,539	23,580	23,580	23,514	23,688	23,737	23,551	282,338	23,528
	Regular Commercial (Schedule C-S)														
4	Commercial (Regular)	3,117	3,104	3,113	3,115	3,089	3,136	3,105	3,123	3,108	3,124	3,118	3,101	37,353	3,113
5	Commercial Net Metering	0	0	0	5	6	6	7	4	4	8	8	8	56	5
6	Subtotal Commercial	3,117	3,104	3,113	3,120	3,095	3,142	3,112	3,127	3,112	3,132	3,126	3,109	37,409	3,117
7	Demand Commercial (Schedule CD-S)	85	85	85	85	85	85	85	85	85	85	85	85	1,020	85
	Lighting														
8	Private Area Lighting	539	530	537	539	531	534	534	539	534	537	536	543	6,433	536
9	Street Lighting	9	9	9	9	9	9	9	9	9	9	9	9	108	ç
10	Subtotal Lighting	548	539	546	548	540	543	543	548	543	546	545	552	6,541	545
11	TOTAL CUSTOMERS	27,224	27,050	27,152	27,225	27,193	27,309	27,320	27,340	27,254	27,451	27,493	27,297	327,308	27,27
	Historical FY 2020	_													
	Regular Residential (Schedule R-S)														
12	Residential (Regular)	23,647	23,528	23,582	23,664	23,645	23,760	23,727	23,651	23,663	23,716	23,600	23,675	283,858	23,655
13	Residential Net Metering	94	92	96	97	100	99	103	106	107	110	111	117	1,232	103
14	Subtotal Residential	23,741	23,620	23,678	23,761	23,745	23,859	23,830	23,757	23,770	23,826	23,711	23,792	285,090	23,758
	Regular Commercial (Schedule C-S)														
15	Commercial (Regular)	3,099	3,109	3,101	3,106	3,092	3,121	3,127	3,125	3,107	3,145	3,142	3,151	37,425	3,119
16	Commercial Net Metering	8	8	8	9	9	9	9	9	9	9	9	9	105	9
17	Subtotal Commercial	3,107	3,117	3,109	3,115	3,101	3,130	3,136	3,134	3,116	3,154	3,151	3,160	37,530	3,128
18	Demand Commercial (Schedule CD-S)	85	85	85	85	85	85	85	85	85	85	85	85	1,020	85
	Lighting														
19	Private Area Lighting	542	542	538	537	537	539	543	540	539	545	542	548	6,492	541
20	Street Lighting	9	9	9	9	9	9	9	9	9	9	9	9	108	9
21	Subtotal Lighting	551	551	547	546	546	548	552	549	548	554	551	557	6,600	550
	TOTAL CUSTOMERS	27,484	27,373	27,419	27,507	27,477	27,622	27,603	27,525	27,519	27,619	27,498	27,594	330,240	27,52

Historical and Projected Customers

Fiscal Years 2019-2021

Ln.															
No.	Customer Classes	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)
	Projected FY 2021	_													
	Regular Residential (Schedule R-S)														
23	Residential (Regular)	23,768	23,742	23,931	23,815	23,848	23,902	24,015	24,025	24,035	24,045	24,055	24,065	287,246	23,937
24	Residential Net Metering	121	126	127	128	131	133	137	137	137	137	137	137	1,588	132
25	Subtotal Residential	23,889	23,868	24,058	23,943	23,979	24,035	24,152	24,162	24,172	24,182	24,192	24,202	288,834	24,070
	Regular Commercial (Schedule C-S)														
26	Commercial (Regular)	3,157	3,193	3,183	3,174	3,178	3,179	3,196	3,196	3,196	3,196	3,196	3,196	38,240	3,187
27	Commercial Net Metering	10	10	10	10	10	10	10	10	10	10	10	10	120	10
28	Subtotal Commercial	3,167	3,203	3,193	3,184	3,188	3,189	3,206	3,206	3,206	3,206	3,206	3,206	38,360	3,197
29	Demand Commercial (Schedule CD-S)	85	85	85	85	85	85	85	85	85	85	85	85	1,020	85
	Lighting														
30	Private Area Lighting	553	546	545	546	546	554	554	554	554	554	554	554	6,614	551
31	Street Lighting	9	9	10	9	9	9	9	9	9	9	9	9	109	9
32	Subtotal Lighting	562	555	555	555	555	563	563	563	563	563	563	563	6,723	560
33	TOTAL CUSTOMERS	27,703	27,711	27,891	27,767	27,807	27,872	28,006	28,016	28,026	28,036	28,046	28,056	334,937	27,911

* Historical amounts through April 2021 provided by the City and remaining FY2021 months estimated using 0.5% projected residential growth.

Historical and Projected Energy Sales (kWh)

Fiscal Years 2019-2021

No. Cub Nutr Juli	Ln.	G () (I	0.4	N	D	×				X	Ţ			e.		
Historical JY 2019 No. 1 No. 1 <th>No.</th> <th>Customer Classes (a)</th> <th>Oct (b)</th> <th>Nov (c)</th> <th>(d)</th> <th>Jan (e)</th> <th>Feb (f)</th> <th>Mar (9)</th> <th>Apr (h)</th> <th><u>May</u></th> <th>Jun (i)</th> <th>Jul (k)</th> <th>Aug (1)</th> <th>Sep (m)</th> <th>Total (n)</th> <th>Average</th>	No.	Customer Classes (a)	Oct (b)	Nov (c)	(d)	Jan (e)	Feb (f)	Mar (9)	Apr (h)	<u>May</u>	Jun (i)	Jul (k)	Aug (1)	Sep (m)	Total (n)	Average
Regular Residential			(8)	(0)	(4)	(0)	(1)	(8)	(11)	(1)	0/	(11)	(1)	()	(11)	(0)
1 pesidential (Regular) 27,512,30 23,76,876 17,72,04 6,019,712 14,266,56 16,409,712 24,887 33,142 21,358,75 27,8537 27,015,76 28,276,388 26,016,577 29,803,704 21,652,05 2 Residential Residential Residential 27,512,33 23,766,767 17,772,04 16,009,387 42,814 16,263,391 16,263,391 16,263,391 16,263,391 16,263,391 16,263,391 16,263,391 16,263,391 16,271,493 21,000,104 20,005,157 21,02,005 Regular Commercial (Schedule CA) 72,724,452 14,007,16 9,329,240 8,075,465 3,31,437 9,197,037 9,060,828 10,775,748 10,804,621 11,541,635 11,412,009 12,157,110 11,384,156 12,614,408 10,527,915 5 Commercial (Schedule CD+) 4,389,59 4,805,697 3,365,680 3,726,406 3,552,872 3,407,00 3,556,593 4,077,286 4,631,304 4,00,99 4,812,684 4,845,684 4,952,673 4,130,285 Isotrial Schedula Chenel CD+) 4,		Historical FY 2019														
2 Residential Net Meetring 0 0 38,075 24,881 31,142 31,093 43,170 47,174 74,105 98,079 98,537 44,006 93534 3 Subbal Residential 27,152,30 21,67,30 17,372,04 16,398,367 12,401,945 25,832,63 27,093,871 28,366,047 26,005,162 20,005,155 21,692,04 6 Commercial (Resplant) 12,744,22 11,400,716 932,924 8,607,858 8,343,67 9,076,705 9,060,828 10,782,04 11,540,051 12,414,80 11,540,061 10,903 10,903 14,200 11,550,655 14,402,39 12,10,0772 14,115,908 12,415,708 43,302 13,598 43,029 4,81,980 10,552 10,552 10,545 14,402,39 12,10,775 14,115,908 12,10,775 14,115,908 12,10,775 12,01,754 14,112,909 4,81,253 4,81,263 14,441 10,21,75 14,112,90 12,10,775 12,10,775 12,10,775 12,10,775 12,10,775 12,10,775 12,10,775		Regular Residential (Schedule R-S)														
3 Subtoal Residential 27,512,330 23,376,876 17,372,046 16,558,387 14,291,444 16,536,349 16,536,360 21,401,945 28,382,631 27,093,371 28,366,047 26,105,144 20,305,155 21,692,096 Regular Commercial (Schedule C-S) 0 0 0 0,588 9,403 14,200 15,920 17,380 22,700 28,159 33,662 31,635 19,0000 15,908 6 Subtoal Commercial (Schedule C-DS) 4,482,597 3,056,680 3,752,406 3,552,872 3,090,703 3,555,933 407,7286 4,813,04 4,501,09 418,15,79 11,412,792 12,444,88 49,552,715 4,130,288 11,412,792 11,415,792 12,644,84 10,527 10,0342 100,532 100,832 100,832 101,724 101,174 101,032 100,532 100,832 101,834 101,172 101,634 102,172 12,1810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 21,2810 <th>1</th> <th>Residential (Regular)</th> <th>27,512,330</th> <th>23,176,876</th> <th>17,372,046</th> <th>16,019,712</th> <th>14,266,563</th> <th>16,493,207</th> <th>16,536,972</th> <th>21,358,775</th> <th>25,785,557</th> <th>27,015,766</th> <th>28,276,368</th> <th>26,016,577</th> <th>259,830,749</th> <th>21,652,562</th>	1	Residential (Regular)	27,512,330	23,176,876	17,372,046	16,019,712	14,266,563	16,493,207	16,536,972	21,358,775	25,785,557	27,015,766	28,276,368	26,016,577	259,830,749	21,652,562
Regular Commercial (Schedule C-S) 12,742,432 11,490,716 9,339,240 8,697,885 8,343,637 9,197,057 9,060,828 10,787,044 11,541,895 11,412,080 12,171.10 11,384,155 126,144,080 10,512,007 6 Subtoal Commercial 12,742,432 11,490,716 9,329,240 8,705,465 8,363,040 9,211,257 9,076,748 10,840,624 11,564,655 11,440,239 12,190,772 11,415,792 12,633,490 10,522,071 7 Demand Commercial (Schedule CD-S) 4,589,459 4,482,597 3,656,680 3,726,406 3,552,872 3,490,700 3,556,593 4,077,286 4,631,304 4,501,099 4,812,655 4,485,084 4,950,275 4,130,288 11 TOTAL ENERGY SALES 122,810 212,810	2	Residential Net Metering	0	0	0	38,675	24,881	33,142	31,093	43,170	47,074	78,105	89,679	88,587	474,406	39,534
4 Commercial (Regular) 12,742,432 11,490,716 9,329,240 8,697,885 8,343,637 9,197,057 9,060,828 10,787,044 11,541,895 11,412,089 12,157,110 11,384,156 12,144,080 10,512,000 5 Commercial (Regular) 12,742,432 11,097,16 9,329,240 8,705,460 3,552,872 3,490 9,115,920 11,544,551 11,412,089 12,157,110 11,384,156 12,634,980 10,527,915 7 Demand Commercial (Schedule CD-S) 4,589,459 4,482,597 3,656,680 3,726,400 3,552,872 3,490,700 3,556,593 4,077,286 4,631,304 4,501,999 4,812,655 4,485,084 49,562,735 4,132,288 11 Total Kene Lighting 100,930 99,672 100,554 101,174 100,432 100,532 100,822 100,822 101,848 314,444 314,948 3,764,486 315,707 9 Stotoal Lighting 313,740 313,242 313,342 313,342 313,342 313,342 313,342 313,648 314,582	3	Subtotal Residential	27,512,330	23,176,876	17,372,046	16,058,387	14,291,444	16,526,349	16,568,065	21,401,945	25,832,631	27,093,871	28,366,047	26,105,164	260,305,155	21,692,096
5 Commercial NewMetering 0 0 7.580 19.403 14.200 15.920 17.580 72.760 28.159 33.662 31.636 190.900 15.908 6 Subtoal Commercial (Schedule CD-S) 4.589.459 4.482.597 3.656.680 3.766.680 3.766.680 3.552.872 3.490.700 3.556.593 4.071.268 4.631.304 4.501.099 4.812.655 4.482.594 4.952.735 4.130.228 Lighting 100.930 9.9.672 100.542 100.532 100.832 100.832 100.822 100.828 101.772 11.634 102.176 1.20.766 100.897 9 Street Liphting 313.740 312.482 313.374 313.404 313.402 313.642 313.642 313.642 313.641 313.704 313.704 313.704 313.704 313.742 313.642 313.642 313.642 313.642 313.642 313.642 313.642 313.642 313.642 313.704 313.704 313.704 313.704 313.704 313.704 3		Regular Commercial (Schedule C-S)														
6 Subtolal Commercial 12,742,432 11,490,716 9,329,240 8,705,465 8,363,040 9,211,227 9,076,748 10,804,624 11,564,655 11,40,239 12,190,772 11,415,792 12,63,34,980 10,527,915 7 Demand Commercial (Schedule CD-S) 4,589,459 4,482,597 3,656,680 3,726,406 3,552,572 3,490,700 3,556,593 4,077,286 4,61,304 4,501,099 4,812,655 4,485,084 49,562,735 4,130,288 12 8 Privace Area Lighting 100,950 99,672 100,542 122,810 212,810	4	Commercial (Regular)	12,742,432	11,490,716	9,329,240	8,697,885	8,343,637	9,197,057	9,060,828	10,787,044	11,541,895	11,412,080	12,157,110	11,384,156	126,144,080	10,512,007
Permand Commercial (Schedule CD-S) 4,589,459 4,482,597 3,656,680 3,726,406 3,552,872 3,490,700 3,556,593 4,077,286 4,631,304 4,501,099 4,812,655 4,485,084 49,562,735 4,130,288 Lighting 100,930 99,672 100,562 100,432 100,532 100,832 100,832 101,772 101,634 102,176 1,210,766 100,897 Street Lighting 313,740 313,374 313,374 313,342 313,422 313,423 313,632 313,638 314,548 314,948 3,764,486 316,394 Historical IY 2020 Regular Residential (Schedule R-S) 8 8 8 16,359,464 21,3499 23,717 23,874 33,849 313,442 313,642 31,635 21,711,330 28,382,026 27,076,413 29,327,150 48,999,5133 21,999,594 Residential (Regular) 25,581,857 22,673,669 16,631,805 14,778,853 16,359,464 21,034,935 22,118,591 23,711,320 28,320,62 27,076,413 29,327,150	5	Commercial Net Metering	0	0	0	7,580	19,403	14,200	15,920	17,580	22,760	28,159	33,662	31,636	190,900	15,908
Lighting 100,30 99,672 100,564 101,174 100,230 100,432 100,532 100,828 101,772 101,634 102,176 1,210,766 100,879 9 Street Lighting 212,810 2	6	Subtotal Commercial	12,742,432	11,490,716	9,329,240	8,705,465	8,363,040	9,211,257	9,076,748	10,804,624	11,564,655	11,440,239	12,190,772	11,415,792	126,334,980	10,527,915
8 Private Area Lighting 100,930 99,672 100,564 101,174 100,230 100,432 100,532 100,822 100,822 100,824 101,772 101,634 102,176 1,210,766 100,877 9 Street Lighting 212,810 213,612 313,670 313,670 313,670 313,670 313,670 313,670 313,618 41,319,96 3,66,31	7	Demand Commercial (Schedule CD-S)	4,589,459	4,482,597	3,656,680	3,726,406	3,552,872	3,490,700	3,556,593	4,077,286	4,631,304	4,501,099	4,812,655	4,485,084	49,562,735	4,130,228
9 Street Lighting 212,810		Lighting														
10 Subtotal Lighting 313,740 312,482 313,374 313,984 313,040 313,242 313,342 313,632 313,638 314,582 314,444 314,986 3,764,486 313,777 11 TOTAL ENERGY SALES 45,157,961 39,462,671 30,671,340 28,804,242 26,520,396 29,541,548 29,514,748 36,597,487 42,342,228 43,349,791 45,683,918 42,321,026 439,967,356 36,663,946 Historical FY 2020 Residential (Schedule R-S) Residential (Schedule R-S) 8,801,638 14,778,853 16,359,464 21,034,935 22,118,591 23,711,300 28,382,026 27,076,413 29,327,150 263,995,133 21,999,594 13 Residential Net Metering 79,999 88,014 38,768 57,705 45,334 45,399 66,558 76,872 106,337 117,025 115,786 141,111 978,908 81,576 14 Subtotal Residential 25,661,855 22,671,623 16,671,677 14,824,187 16,404,863 21,101,493 22,195,463 28	8	Private Area Lighting	100,930	99,672	100,564	101,174	100,230	100,432	100,532	100,822	100,828	101,772	101,634	102,176	1,210,766	100,897
Internal of a final state Addition of the state	9	Street Lighting	212,810	212,810	212,810	212,810	212,810	212,810	212,810	212,810	212,810	212,810	212,810	212,810	2,553,720	212,810
Historical FY 2020 Regular Residential (Schedule R-S) Residential (Regular) 25,581,857 22,673,609 16,632,869 16,318,036 14,778,853 16,359,464 21,034,935 22,118,591 23,711,330 28,382,026 27,076,413 29,327,150 263,995,133 21,999,594 13 Residential Net Metering 79,999 88,014 38,768 57,705 45,334 45,399 66,558 76,872 106,337 117,025 115,786 141,111 978,998 81,576 14 Subtotal Residential 25,661,856 22,761,623 16,671,637 16,375,741 14,824,187 16,404,863 21,101,493 22,195,463 23,817,667 28,499,051 27,192,199 29,468,261 264,974,041 22,081,170 Regular Commercial (Schedule C-S) 15 Commercial (Regular) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 115,475,216 9,622,935 <tr< th=""><th>10</th><th>Subtotal Lighting</th><th>313,740</th><th>312,482</th><th>313,374</th><th>313,984</th><th>313,040</th><th>313,242</th><th>313,342</th><th>313,632</th><th>313,638</th><th>314,582</th><th>314,444</th><th>314,986</th><th>3,764,486</th><th>313,707</th></tr<>	10	Subtotal Lighting	313,740	312,482	313,374	313,984	313,040	313,242	313,342	313,632	313,638	314,582	314,444	314,986	3,764,486	313,707
Regular Residential (Schedule R-S) 12 Residential (Schedule R-S) 12 Residential (Schedule R-S) 12 Residential (Regular) 25,581,857 22,673,609 16,328,69 16,318,036 14,778,853 16,359,464 21,034,935 22,118,591 23,711,30 28,382,026 27,076,413 29,327,150 263,995,133 21,999,994 13 Residential Net Metering 79,999 88,014 38,768 57,705 45,334 45,399 66,558 76,872 106,337 117,025 115,786 141,111 978,908 81,576 14 Subtotal Residential 25,661,856 22,761,623 16,671,637 16,375,714 14,824,187 16,404,863 21,014,93 23,817,667 28,499,051 27,12,199 29,468,261 26,497,404 22,081,170 15 Commercial (Regular) 11,737,967 10,793,914 9,137,961 8,801,633 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,913 115,475,216 9,622,935	11	TOTAL ENERGY SALES	45,157,961	39,462,671	30,671,340	28,804,242	26,520,396	29,541,548	29,514,748	36,597,487	42,342,228	43,349,791	45,683,918	42,321,026	439,967,356	36,663,946
12Residential (Regular)25,581,85722,673,60916,632,86916,318,03614,778,85316,359,46421,034,93522,111,33028,382,02627,076,41329,327,150263,995,13321,999,59413Residential Net Metering79,99988,01438,76857,70545,33445,39966,55876,872106,337117,025115,786141,111978,90881,57614Subtotal Residential25,661,85622,761,62316,671,63716,375,74114,824,18716,404,86321,101,49322,195,46323,817,66728,499,05127,192,19929,468,26126,497,404122,081,170Regular Commercial (Schedule C-S)15Commercial (Regular)11,737,96710,793,9149,137,9618,801,6938,384,5969,224,6178,816,2437,843,7069,086,54310,588,74410,077,30110,981,931115,475,2169,622,93516Commercial (Regular)11,768,59010,826,5259,164,3058,831,3478,420,3569,257,9788,857,1347,885,8299,132,27710,641,22110,128,87211,038,241115,952,6759,662,72317Subtotal Commercial (Schedule CD-S)4,507,7294,284,8933,801,1143,978,2793,674,7243,811,1774,004,2823,756,0584,191,7594,305,3294,405,5914,473,87749,285,8124,107,15118Demand Commercial (Schedule CD-S)4,507,7294,284,933,801,1143,978,2793,674,7243,811,177<		Historical FY 2020														
13 Residential Net Metering 79,999 88,014 38,768 57,705 45,334 45,399 66,558 76,872 106,337 117,025 115,786 141,111 978,908 81,576 14 Subtotal Residential 25,661,856 22,761,623 16,671,637 16,375,741 14,824,187 16,404,863 21,101,493 23,817,667 28,499,051 27,192,199 29,468,261 26,4974,041 22,081,170 Regular Commercial (Regular) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 115,475,216 9,622,935 16 Commercial (Regular) 11,737,967 10,793,914 29,654 35,760 33,361 40,891 42,123 45,734 52,477 51,571 56,310 477,459 39,788 17 Subtotal Commercial (Schedule CD-5) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4,396,329 4,405,591 4,473,877 49,285,812 4,107,151 <		Regular Residential (Schedule R-S)														
14 Subtotal Residential 25,661,856 22,761,623 16,671,637 16,375,741 14,824,187 16,404,863 21,101,493 22,195,463 23,817,667 28,499,051 27,192,199 29,468,261 264,974,041 22,081,170 Regular Commercial (Schedule C-S) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 11,5475,216 9,622,935 16 Commercial (Regular) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 115,475,216 9,622,935 16 Commercial (Regular) 11,768,590 10,826,525 9,164,305 8,31,347 8,420,356 9,257,978 8,857,134 7,885,829 9,132,277 10,641,221 10,128,872 11,038,241 115,952,675 9,662,723 18 Demand Commercial (Schedule CD-S) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4	12	Residential (Regular)	25,581,857	22,673,609	16,632,869	16,318,036	14,778,853	16,359,464	21,034,935	22,118,591	23,711,330	28,382,026	27,076,413	29,327,150	263,995,133	21,999,594
Regular Commercial (Schedule C-S) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 115,475,216 9,622,935 16 Commercial Net Metering 30,623 32,611 26,344 29,654 35,760 33,361 40,891 42,123 45,734 52,477 51,571 56,310 477,459 39,788 17 Subtotal Commercial 11,768,590 10,826,525 9,164,305 8,831,347 8,420,356 9,257,978 8,857,134 7,885,829 9,132,277 10,641,221 10,128,872 11,038,241 115,952,675 9,662,723 18 Demand Commercial (Schedule CD-S) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4,396,329 4,405,591 4,473,877 49,285,812 4,107,151 Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196	13	Residential Net Metering	79,999	88,014	38,768	57,705	45,334	45,399	66,558	76,872	106,337	117,025	115,786	141,111	978,908	81,576
15 Commercial (Regular) 11,737,967 10,793,914 9,137,961 8,801,693 8,384,596 9,224,617 8,816,243 7,843,706 9,086,543 10,588,744 10,077,301 10,981,931 115,475,216 9,622,935 16 Commercial Net Metering 30,623 32,611 26,344 29,654 35,760 33,361 40,891 42,123 45,734 52,477 51,571 56,310 477,459 39,788 17 Subtotal Commercial 11,768,590 10,826,525 9,164,305 8,831,347 8,420,356 9,257,978 8,857,134 7,885,829 9,132,277 10,641,221 10,128,872 11,038,241 115,952,675 9,662,723 18 Demand Commercial (Schedule CD-S) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4,396,329 4,405,591 4,473,877 49,285,812 4,107,151 19 Private Area Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196 104,246 105,076 103,820 104,098 1,2	14	Subtotal Residential	25,661,856	22,761,623	16,671,637	16,375,741	14,824,187	16,404,863	21,101,493	22,195,463	23,817,667	28,499,051	27,192,199	29,468,261	264,974,041	22,081,170
16Commercial Net Metering30,62332,61126,34429,65435,76033,36140,89142,12345,73452,47751,57156,310477,45939,78817Subtotal Commercial11,768,59010,826,5259,164,3058,831,3478,420,3569,257,9788,857,1347,885,8299,132,27710,641,22110,128,87211,038,241115,952,6759,662,72318Demand Commercial (Schedule CD-S)4,507,7294,284,8933,801,1143,978,2793,674,7243,811,1774,004,2823,756,0584,191,7594,396,3294,405,5914,473,87749,285,8124,107,151Lighting106,270105,048103,742103,970103,900103,766105,818104,196104,246105,076103,820104,0981,253,950104,49620Street Lighting212,810212,810212,810212,810212,810212,888212,898 <t< th=""><th></th><th>Regular Commercial (Schedule C-S)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		Regular Commercial (Schedule C-S)														
17 Subtotal Commercial 11,768,590 10,826,525 9,164,305 8,831,347 8,420,356 9,257,978 8,857,134 7,885,829 9,132,277 10,641,221 10,128,872 11,038,241 115,952,675 9,662,723 18 Demand Commercial (Schedule CD-S) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4,396,329 4,405,591 4,473,877 49,285,812 4,107,151 Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196 104,246 105,076 103,820 104,098 1,253,950 104,496 20 Street Lighting 212,810 212,810 212,810 212,810 212,810 212,898 <	15	Commercial (Regular)	11,737,967	10,793,914	9,137,961	8,801,693	8,384,596	9,224,617	8,816,243	7,843,706	9,086,543	10,588,744	10,077,301	10,981,931	115,475,216	9,622,935
18 Demand Commercial (Schedule CD-S) 4,507,729 4,284,893 3,801,114 3,978,279 3,674,724 3,811,177 4,004,282 3,756,058 4,191,759 4,396,329 4,405,591 4,473,877 49,285,812 4,107,151 Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196 104,246 105,076 103,820 104,098 1,253,950 104,496 20 Street Lighting 212,810 212,810 212,810 212,810 212,898	16	Commercial Net Metering	30,623	32,611	26,344	29,654	35,760	33,361	40,891	42,123	45,734	52,477	51,571	56,310	477,459	39,788
Lighting 19 Private Area Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196 104,246 105,076 103,820 104,098 1,253,950 104,496 20 Street Lighting 212,810 212,810 212,810 212,810 212,810 212,810 212,898 316,718 316,996 3,808,286 317,357 21 Subtotal Lighting 319,080 317,858	17	Subtotal Commercial	11,768,590	10,826,525	9,164,305	8,831,347	8,420,356	9,257,978	8,857,134	7,885,829	9,132,277	10,641,221	10,128,872	11,038,241	115,952,675	9,662,723
19 Private Area Lighting 106,270 105,048 103,742 103,970 103,900 103,766 105,818 104,196 104,246 105,076 103,820 104,098 1,253,950 104,496 20 Street Lighting 212,810 212,810 212,810 212,810 212,810 212,898 316,7103 316,664 318	18	Demand Commercial (Schedule CD-S)	4,507,729	4,284,893	3,801,114	3,978,279	3,674,724	3,811,177	4,004,282	3,756,058	4,191,759	4,396,329	4,405,591	4,473,877	49,285,812	4,107,151
20 Street Lighting 212,810 212,810 212,810 212,810 212,810 212,810 212,810 212,898 <th></th> <th>Lighting</th> <th></th>		Lighting														
21 Subtotal Lighting 319,080 317,858 316,552 316,780 316,710 316,664 318,716 317,094 317,144 317,974 316,718 316,996 3,808,286 317,357	19	Private Area Lighting	106,270	105,048	103,742	103,970	103,900	103,766	105,818	104,196	104,246	105,076	103,820	104,098	1,253,950	104,496
	20	Street Lighting	212,810	212,810	212,810	212,810	212,810	212,898	212,898	212,898	212,898	212,898	212,898	212,898	2,554,336	212,861
22 TOTAL ENERGY SALES 42,257,255 38,190,899 29,953,608 29,502,147 27,235,977 29,790,682 34,281,625 34,154,444 37,458,847 43,854,575 42,043,380 45,297,375 434,020,814 36,168,401	21	Subtotal Lighting	319,080	317,858	316,552	316,780	316,710	316,664	318,716	317,094	317,144	317,974	316,718	316,996	3,808,286	317,357
	22	TOTAL ENERGY SALES	42,257,255	38,190,899	29,953,608	29,502,147	27,235,977	29,790,682	34,281,625	34,154,444	37,458,847	43,854,575	42,043,380	45,297,375	434,020,814	36,168,401

CITY OF LAKE WORTH BEACH, FLORIDA

Electric Cost of Service Study

Historical and Projected Energy Sales (kWh)
Fiscal Years 2019-2021

Ln.															
No.	Customer Classes	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Average
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)
	Projected FY 2021														
	Regular Residential (Schedule R-S)														
23	Residential (Regular)	25,872,026	24,031,892	19,817,202	16,662,623	14,674,480	16,832,990	18,481,380	22,229,184	23,829,887	28,523,936	27,211,795	29,473,786	267,641,181	22,303,432
24	Residential Net Metering	131,201	143,169	87,824	75,828	55,739	57,624	54,991	99,353	136,151	145,749	142,907	165,233	1,295,769	107,981
25	Subtotal Residential	26,003,227	24,175,061	19,905,026	16,738,451	14,730,219	16,890,614	18,536,371	22,328,537	23,966,038	28,669,685	27,354,702	29,639,018	268,936,950	22,411,412
	Regular Commercial (Schedule C-S)														
26	Commercial (Regular)	10,682,709	11,006,391	9,318,144	7,779,003	7,321,101	8,270,695	9,061,479	7,843,706	9,086,543	10,588,744	10,077,301	10,981,931	112,017,747	9,334,812
27	Commercial Net Metering	52,469	53,665	45,176	40,164	34,838	37,068	38,601	42,123	45,734	52,477	51,571	56,310	550,196	45,850
28	Subtotal Commercial	10,735,178	11,060,056	9,363,320	7,819,167	7,355,939	8,307,763	9,100,080	7,885,829	9,132,277	10,641,221	10,128,872	11,038,241	112,567,943	9,380,662
29	Demand Commercial (Schedule CD-S)	4,507,729	4,284,893	3,801,114	3,978,279	3,674,724	3,811,177	4,004,282	3,756,058	4,191,759	4,396,329	4,405,591	4,473,877	49,285,812	4,107,151
	Lighting														
30	Private Area Lighting	105,850	102,510	102,374	102,336	101,844	102,900	102,626	102,626	102,626	102,626	102,626	102,626	1,233,570	102,798
31	Street Lighting	212,898	212,898	211,666	212,282	212,282	212,282	212,282	212,282	212,282	212,282	212,282	212,282	2,548,000	212,333
32	Subtotal Lighting	318,748	315,408	314,040	314,618	314,126	315,182	314,908	314,908	314,908	314,908	314,908	314,908	3,781,570	315,131
33	TOTAL ENERGY SALES	41,564,882	39,835,418	33,383,500	28,850,515	26,075,008	29,324,736	31,955,641	34,285,332	37,604,982	44,022,143	42,204,073	45,466,044	434,572,275	36,214,356

* Historical amounts through April 2021 provided by the City and remaining FY2021 months estimated using 0.5% projected growth.

Projected Annual Billing Determinants

Fiscal Year Ending September 30, 2020

			Billing	Energy
Ln.		Number	Demand	Sales
No.	Customer Class Description	of Bills	(kW)	(kWh)
	(a)	(b)	(c)	(d)
1	Residential Regular	283,858	0	263,995,133
2	Residential Net Metering	1,232	0	978,908
3	Total Residential	285,090	0	264,974,041
4	Commerial Regular	37,425	0	115,475,216
5	Commerial Net Metering	105	0	477,459
6	Total Commercial	37,530	0	115,952,675
7	Commerial Service Demand	1,020	104,476	49,285,812
8	Lighting	6,600	0	3,808,286
9	TOTAL Residential Service	285,090	0	264,974,041
10	TOTAL Commercial Service	37,530	0	115,952,675
11	TOTAL Commercial Service Demand	1,020	104,476	49,285,812
12	TOTAL Lighting	6,600	0	3,808,286
13	TOTAL SYSTEM	330,240	104,476	434,020,814

General

The various components of costs associated with the operation, maintenance, funding of improvements, renewal and replacement of facilities, and assurance of the adequacy and continuity of reliable service to customers are generally referred to as the revenue requirements of a municipally owned and operated utility. The determination of the revenue requirements as they relate to the City, consistent with the methods of other publicly owned utilities, includes the various generalized cost components described below.

Operation and Maintenance Expenses: These expenses include the cost of purchased power, labor, materials, supplies, transportation, services, and other expenses, which are necessary to the operation and maintenance of the Electric Utility. These expenses do not include an allowance for depreciation or replacement of capital assets, any monies for the payment of interest on indebtedness or any monies transferred to a Reserve Fund.

Debt Service: Included in the debt service component of cost is the annual principal of and interest on bonds and related costs/transfers payable from the net revenues.

Capital Improvements: These expenditures are for the purpose of paying the cost of construction or acquisition of necessary improvements, betterments, extensions, enlargements or additions to, or the renewal and replacement of capital assets of the system and for unusual or extraordinary repairs thereto.

Revenues Available for Other Lawful Purposes: This component of cost is paid out of revenues and includes (a) any additional capital improvements to be financed from revenues; (b) additional working cash to provide for the payment of expenses incurred in providing service prior to the receipt of revenues associated with such service; (c) the establishment of operating reserves for special purposes such as providing funds for self-insuring the facilities against certain perils and for the stabilization of rates to smooth out rate increases and minimize customer rate shock, (d) transfers of certain amounts of revenues from the earnings of the Electric Utility to the City; and (e) allowances for any other lawful purpose.

Revenue Credits: In the determination of projected annual costs, adjustments should be made to reflect among other things, (a) the receipt of revenues from the investment of monies, and (b) the receipt of revenues from other operating sources such as the rental of land, the use of poles and the sale of scrap. The recognition of these revenue credits reduces the overall annual revenue requirement from electric rates to ultimate customers.

Total Annual Net Revenue Requirements: The total of the cost components described above less other income and other operating revenues is the total annual net revenue



requirements and such total represents the amount of revenues required to be recovered through rates and charges to ultimate customers.

Projected Revenue Requirements

Electric rates should be set at a level such that the revenues produced will be sufficient to meet near future revenue requirements. An important objective of a projected test year is to establish rates and rate levels that will also reflect the then current and near future costs of providing service and market conditions. Thus, it is necessary to estimate or project the various cost components over a reasonable period of time in order to determine the required rate levels. Projections must consider changes in operating practices, new facilities, increased regulatory (environmental) costs, expected changes in cost, and other factors that may affect the overall cost of operating and maintaining the utility system.

It was determined that the revenue requirements for this Electric Cost of Service Study would be predicated on the budgeted costs of the Electric Utility for the fiscal year ending September 30, 2020. The budgeted expenditures were used as a baseline in the development of the projections of the annual revenue requirements for the fiscal period ending September 30, 2020 through 2024. Based upon that detailed data and certain adjustments to reflect any known and anticipated changes and certain pro forma adjustments, the Consultant, together with members of the management and staff of the City, developed detailed estimates of projected expenditures for the fiscal years 2020 through 2024.

Assumptions and Considerations

The development of the projected revenue requirements for the Test Year required certain assumptions and considerations in order to reflect certain known or anticipated changes and certain pro forma adjustments. The analyses, estimates and projections summarized herein have been based upon an understanding of certain contracts, agreements, regulations, statutory requirements and planned operations. In the preparation of this report, certain assumptions have been made with respect to conditions, which may occur in the future. While these assumptions are reasonable for the preparation of this study, they are dependent upon future events and actual conditions may differ from those assumed. To the extent that actual future conditions differ from those projected.

The major assumptions and considerations included in the development of the projected annual revenue requirements have been divided into two categories and are listed below:

General

1. The general economic activity will not have a major impact on the City's electric sales and annual inflation will be approximately 1.5 percent.

- 2. Existing federal and state environmental laws, including the Clean Air Act Amendments of 1990, the Clean Air Interstate Rule and the Clean Air Mercury Rule, will continue to be implemented, applied and enforced, and no new laws, regulations, rules and interpretations will be imposed on the City or its wholesale suppliers resulting in more stringent environmental restrictions in the near term.
- 3. There will be no material change in the taxation of fuel used to produce electricity.
- 4. There will be no material change in the taxation of municipally-owned or municipally financed electric generation or purchased power, transmission and distribution systems.
- 5. There will be no material change in the level of federal, state or local regulation of municipally-owned utilities.
- 6. There will be no material change in the City's existing ability to import or export power over the transmission grid.
- 7. The existing form of governance and policies established by the City will continue throughout the Study Period.
- 8. The City will continue to be the exclusive owner and operator of the Electric Utility, including its transmission, distribution, and customer care facilities.

Specific

- 1. The fiscal year period ending September 30, 2020 through 2024 revenues and expenses for the Electric Utility and the underlying assumptions included therein provide a reasonable basis and reflect normalized system operation.
- 2. As discussed in Section 2, the sales forecast was the basis for the development of the projected retail energy and demand requirements for the Test Year. It should be recognized that (a) any meaningful variances in the load characteristics of existing or new customers, and/or (b) any differences in expected initiation of service for anticipated new customers, and/or (c) differences in the expected effectiveness of the various conservation programs initiated and contemplated by the City and/or (d) any changes in federal or state legislation that permit customers to select their energy service provider may result in a distortion and/or an over or under recovery of revenue requirements for the Test Year.
- 3. Power supply costs used herein are predicated in part on cost data provided by the City and on the continued purchase of power supply from its wholesale suppliers.
- 4. Expenses for the fiscal years 2020 through 2024 have been increased based on an assumed inflation rate of 1.5 percent per year except where noted in Table No. 3-1. Salaries have been escalated at 3.0 percent, benefits at 6.5 percent, insurance at 5.0 percent, and information technology at 15.0 percent for 2021 and 5.0 percent for years 2022 through 2024.

- 5. Projected purchased power expenses have been estimated based on an analysis of purchased power expenses assuming an overall increase in kWh usage from 2020 of 0.5 percent per year, as shown on Table No. 3-4.
- 6. Projected debt service payments have been based on information provided by the City.
- 7. Capital improvement expenditures have been assumed to be funded from bond proceeds.
- 8. The amount for the Transfer to the General Fund has been based on current City policies and assumed to be constant at the current level.
- 9. Other Revenue has been projected based on the adopted fiscal year ending September 30, 2020 Budget and is set forth in Table No. 3-3.
- 10. Projected revenues from existing rates have been estimated based on the projected increases in sales from 2020 levels of 0.5 percent per year, as shown on Table No. 3-2.

Shown on Table No. 3-1 are the various expenditures and revenues for the fiscal years ending September 30, 2020 through 2024, and the adjustments discussed herein. In addition, each of the adjustments is noted in the footnotes to Table No. 3-1.

Summary

Based on the projected Test Year revenue requirements developed on Table No. 3-1, the existing rates produce revenues that are approximately the same as the cost of providing service on a system wide basis through fiscal year 2021 but under recover the revenue requirements beginning in fiscal year 2022. The projected revenue requirements and existing rate revenues are summarized below.

			Projected		
Description	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Net Revenue Requirements	\$58,158,995	\$58,300,746	\$64,422,550	\$62,237,218	\$61,950,862
Total Existing Rate Revenue	58,558,995	58,931,674	59,307,414	59,686,250	60,068,214
Surplus/(Deficiency)	\$400,000	\$630,927	(\$5,115,136)	(\$2,550,968)	(\$1,882,649)
Percent of Base and Fuel Revenue	0.8%	1.2%	-10.0%	-5.0%	-3.6%

Summary of Projected Revenue Requirements and Existing Rate Revenues

Fiscal Year Ending September 30

		Adopted	Adjustments to	2020	2021	2022	2023	2024
Ln.		Budget	Adopted	Revenue	Revenue	Revenue	Revenue	Revenue
No.	Description	2020 [1]	Budget 2020	Requirements	Requirements	Requirements	Requirements	Requirements
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Operating Expenses [2]							
1	System Operations							
2	FMPA St. Lucie Project [3]	\$13,383,500	(1,017,663)	\$12,365,837	\$11,311,919	\$10,301,940	\$8,038,739	\$8,038,739
3	Supplemental Purchased Power [3]	6,883,410	(192,587)	6,690,823	2,544,328	2,864,617	3,211,790	4,734,130
4	FMPA Stanton Project [3]	4,068,280	(478,638)	3,589,642	9,222,373	12,019,686	11,178,003	8,406,524
5	Gas Transportation [4]	4,907,122	(899,312)	4,007,810	4,839,676	4,839,676	4,839,676	4,839,676
6	FPL Transmission [3]	2,060,000	(350)	2,059,650	2,105,482	2,263,692	2,275,010	2,286,385
7	Other System Operations	2,139,585	0	2,139,585	2,212,997	2,280,323	2,350,436	2,423,480
8	Total System Operations	33,441,897	(2,588,550)	30,853,347	32,236,775	34,569,933	31,893,654	30,728,934
9	Power Plant	2,811,675	0	2,811,675	2,920,412	3,030,805	3,146,279	3,267,096
10	Transmission and Distribution [5]	6,829,322	(1,345,646)	5,483,676	5,951,008	6,144,635	6,346,475	6,556,950
11	Customer Service	1,786,238	0	1,786,238	1,866,136	1,925,733	1,987,820	2,052,522
12	Meter Shop	1,252,515	0	1,252,515	1,296,276	1,340,612	1,386,903	1,435,250
13	Engineering	1,795,371	0	1,795,371	1,861,627	1,925,470	1,992,052	2,061,514
14	Administration	1,804,700	0	1,804,700	1,868,885	1,928,243	1,990,085	2,054,537
15	Conservation Management	16,390	0	16,390	17,621	18,279	18,966	19,684
16	Total Operating Expenses	49,738,108	(3,934,196)	45,803,912	48,018,740	50,883,710	48,762,233	48,176,487
	Other Revenue Requirements							
17	Debt Serice [6]	3,493,633	0	3,493,633	1,120,169	2,964,875	2,974,500	3,686,600
18	Interfund Administrative Services	1,814,900	0	1,814,900	1,924,900	1,953,774	1,983,080	2,012,826
19	Contribution to General Fund	4,536,491	0	4,536,491	4,536,491	4,536,491	4,536,491	4,536,491
20	Other	420,000	0	420,000	426,300	432,695	439,185	445,773
21	Transfer to Rate Stabilization Fund	0	0	0	0	500,000	500,000	500,000
22	Reserves [7]	0	2,090,059	2,090,059	2,274,146	3,151,006	3,041,729	2,592,685
23	Total Other Revenue Requirements	10,265,024	2,090,059	12,355,083	10,282,006	13,538,840	13,474,985	13,774,375
24	TOTAL REVENUE REQUIREMENTS	60,003,132	(1,844,137)	58,158,995	58,300,746	64,422,550	62,237,218	61,950,862
	Projected Revenue From Sales							
25	Existing Base Rate Revenues	38,073,168	(2,736,514)	35,336,654 [8]	35,513,337	35,690,904	35,869,359	36,048,705
26	Power Cost Adjustment (PCA) [9]	15,842,358	(608,411)	15,233,947 [8]	15,310,116	15,386,667	15,463,600	15,540,918
27	Other Revenue	7,588,394	400,000	7,988,394 [10]	8,108,220	8,229,843	8,353,291	8,478,590
28	TOTAL REVENUES FROM SALES	61,503,920	(2,944,925)	58,558,995	58,931,674	59,307,414	59,686,250	60,068,214
29	Revenue Surplus or (Deficiency)	\$1,500,788	(\$1,100,788)	\$400,000	\$630,927	(\$5,115,136)	(\$2,550,968)	(\$1,882,649)
	Surplus or (Deficiency) as a % of:							
30	Existing Base Rate Revenues			1.1%	1.8%	-14.3%	-7.1%	-5.2%
31	Existing Base Rate and PCA Revenues			0.8%	1.2%	-10.0%	-5.0%	-3.6%

Footnotes to Table No. 3-1

- [1] Based on the Fiscal Year Ending September 30, 2020 Budget.
- [2] Unless otherwise noted, operating expenses are based on the 2020 Budget, escalated in 2021 through 2024 by the assumed general inflation rate of 1.5% per year; salaries escalated at 3.0%, benefits at 6.6%, insurance at 5.0% and information technology at 15.0% for 2021 and 5% for years 2022 through 2024.
- [3] FY 2020 adjustments based on actual expenses. FY 2021-2024 projections provided by the City's power supply consultant, as shown on Table No. 3-4.
- [4] FY 2020 adjustment based on actual expenses.
- [5] FY 2020 adjustment based on actual expenses. The adjustment includes a \$670,077 reduction in maintenance expenses, a \$398,624 reduction in personnel expenses, and a \$276,945 reduction in other expenses.
- [6] Based on information provided by the City.
- [7] Replenisment of Reserves to maintain cash balances.
- [8] From Table No. 3-2, Page 2.
- [9] Based on current PCA.
- [10] From Table No. 3-3.

Electric Cost of Service Study

Projected Revenues at EXISTING RATES Fiscal Year Ending September 30, 2020

Ln. No.	Customer Class Description]	Existing Rate	Billing Determinants	Base Rate Revenue	ower Cost djustment	Total Revenue
	(a)		(b)	(c)	 (d)	 (e)	(f)
	Residential Regular						
1	Customer Charge	\$	10.53	283,858	\$ 2,989,025	\$ -	\$ 2,989,025
2	Energy Charge < 1,000 kWhs	\$	0.05148	208,292,160	10,722,880	-	10,722,880
3	Energy Charge > 1,000 kWhs	\$	0.07880	55,702,973	4,389,394	-	4,389,394
4	Power Cost Adjustment < 1,000 kWhs	\$	0.03578	208,292,160	-	7,452,693	7,452,693
5	Power Cost Adjustment > 1,000 kWhs	\$	0.03900	55,702,973	-	2,172,416	2,172,416
6	Capacity Charge	\$	0.01020	263,995,133	 2,692,750	 -	 2,692,750
7	Subtotal Residential Regular				\$ 20,794,050	\$ 9,625,109	\$ 30,419,159
	Residential Net Metering						
8	Customer Charge	\$	10.53	1,232	\$ 12,973	\$ -	\$ 12,973
9	Energy Charge < 1,000 kWhs	\$	0.05148	772,358	39,761	-	39,761
10	Energy Charge > 1,000 kWhs	\$	0.07880	206,550	16,276	-	16,276
11	Power Cost Adjustment < 1,000 kWhs	\$	0.03578	772,358	-	27,635	27,635
12	Power Cost Adjustment > 1,000 kWhs	\$	0.03900	206,550	-	8,055	8,055
13	Capacity Charge	\$	0.01020	978,908	 9,985	 -	 9,985
14	Subtotal Residential Net Metering				\$ 78,995	\$ 35,690	\$ 114,685
15	Total Residential			264,974,041	\$ 20,873,045	\$ 9,660,800	\$ 30,533,845
	Commercial Regular						
16	Customer Charge	\$	16.66	37,425	\$ 623,501	\$ -	\$ 623,501
17	Energy Charge	\$	0.07040	115,475,216	8,129,455	-	8,129,455
18	Capacity Charge	\$	0.01020	115,475,216	1,177,847	-	1,177,847
19	Power Cost Adjustment	\$	0.03578	115,475,216	 -	 4,131,703	 4,131,703
20	Subtotal Commercial Regular				\$ 9,930,803	\$ 4,131,703	\$ 14,062,506
	Commercial Net Metering						
21	Customer Charge	\$	16.66	105	\$ 1,749	\$ -	\$ 1,749
22	Energy Charge	\$	0.07040	477,459	33,613	-	33,613
23	Capacity Charge	\$	0.01020	477,459	4,870	-	4,870
24	Power Cost Adjustment	\$	0.03578	477,459	 -	 17,083	 17,083
25	Subtotal Commercial Net Metering				\$ 40,232	\$ 17,083	\$ 57,316
26	Total Commercial			115,952,675	\$ 9,971,035	\$ 4,148,787	\$ 14,119,822

Electric Cost of Service Study

Projected Revenues at EXISTING RATES Fiscal Year Ending September 30, 2020

Ln. No.	Customer Class Description	ExistingBillingBase RateCustomer Class DescriptionRateDeterminantsRevenue		Power Cost Adjustment		Total Revenue			
	(a)	_	(b)	(c)	 (d)		(e) (f)		(f)
	Commercial Service Demand								
27	Customer Charge	\$	120.00	1,020	\$ 122,400	\$	-	\$	122,400
28	Energy Charge	\$	0.03550	49,285,812	1,749,646		-		1,749,646
29	Capacity Charge	\$	0.01020	49,285,812	502,715		-		502,715
30	Power Cost Adjustment	\$	0.02890	49,285,812	-		1,424,360		1,424,360
31	Demand Charge	\$	14.48	104,476	 1,512,812		-		1,512,812
32	Total Commercial Service Demand				\$ 3,887,574	\$	1,424,360	\$	5,311,934
33	Total Private Area Lighting			1,253,950	\$ 250,000				250,000
34	Total Street Lights			2,554,336	\$ 355,000				355,000
35	TOTAL RATE REVENUES				\$ 35,336,654	\$	15,233,947	\$	50,570,601
36	OTHER REVENUES								7,588,394
37	TOTAL REVENUES							\$	58,158,995

Electric Cost of Service Study

Summary of Other Electric Revenues

Fiscal Year Ending September 30

Ln. No.	Description	Adopted Budget 2020 [1]	Adjustments to Budget	Adjusted Test Year Revenues
	(a)	(b)	(c)	(d)
	Other Electric Revenues			
1	Gas Transportation Revenues	\$5,090,719	\$0	\$5,090,719
2	NSF and Bank Charges	15,000	0	15,000
3	Miscellaneous [2]	246,600	0	246,600
4	Service Charge	670,000	0	670,000
5	Penalties/Late Fees	520,000	0	520,000
6	Tampering Fines	15,000	0	15,000
7	Investments	147,895	0	147,895
8	FDOT-Reimbursement	131,000	0	131,000
9	Other	38,100	0	38,100
10	Water	381,310	0	381,310
11	Refuse	32,770	0	32,770
12	Local Sewer	300,000	0	300,000
13	Increased Commercial Minimum Charge	0	400,000	400,000
14	Total Other Electric Revenues	\$7,588,394	\$400,000	\$7,988,394

[1] Based on the Budgeted 2020 Electric Revenue Fund provided by the City.

[2] Pole Attachment Fees.

Calculation of Power Cost Adjustment (PCA)

Fiscal Year Ending September 30

Ln. No.	Description	2021	2022	2023	2024	2025
	(a)	(b)	(c)	(d)	(e)	(f)
	Power Costs [1]					
1	FMPA St. Lucie Project	\$11,311,919	\$10,301,940	\$8,038,739	\$8,038,739	\$8,037,000
2	FMPA Stanton Project	2,544,328	2,428,222	1,975,310	2,074,134	2,178,057
3	Supplemental Purchased Power	9,222,373	12,019,686	11,178,003	8,406,524	8,967,850
4	Solar	0	436,395	1,236,480	2,659,996	2,678,831
5	FPL Transmission	2,105,482	2,263,692	2,275,010	2,286,385	2,297,817
6	Total Power Costs	\$25,184,102	\$27,449,935	\$24,703,542	\$23,465,778	\$24,159,554
7	Total Energy Purchased (kWh)	474,426,000	474,426,718	476,798,852	479,182,846	481,578,760
8	Total Cost Per kWh Purchased	\$0.0531	\$0.0579	\$0.0518	\$0.0490	\$0.0502
9	Total Energy Sales (kWh) [2]	434,572,275	433,070,899	435,236,253	437,412,435	439,599,497
10	Total Cost Per kWh Sold	\$0.0580	\$0.0634	\$0.0568	\$0.0536	\$0.0550
11	FMPA St. Lucie Project Fixed Costs	\$11,311,919	\$10,301,940	\$8,038,739	\$8,038,739	\$8,037,000
12	FMPA Stanton Project Fixed Costs	1,120,499	1,120,499	1,120,499	1,120,499	1,120,499
13	Net Power Costs	\$12,751,684	\$16,027,496	\$15,544,304	\$14,306,540	\$15,002,055
14	Transfer to Rate Stabilization Fund	0	500,000	500,000	500,000	500,000
15	Net Power Costs for PCA	\$12,751,684	\$16,527,496	\$16,044,304	\$14,806,540	\$15,502,055
16	Calculated PCA per kWh	\$0.0293	\$0.0382	\$0.0369	\$0.0339	\$0.0353

[1] FY 2021-2025 provided by the City's power supply consultant.

[2] FY 2022 from Table No. 2-2; FY 2023-2025 based on a growth rate of 0.5% per year.

Section 4 FUNCTIONALIZATION AND CLASSIFICATION OF COSTS AND DEVELOPMENT OF ALLOCATION FACTORS

Functionalization and Classification

In allocating utility costs to the various customer classes, there are three major processes: functionalization, classification, and allocation. The functionalization and classification of the Test Year revenue requirement are discussed in the first part of this section. The development of allocation factors for the Test Year revenue requirement is discussed and set forth in the second half of this section.

Functionalization of Test Year Expenditures

Although budgeting and accounting systems generally follow functional groups, i.e., production, transmission, etc., certain costs such as those associated with administrative and general expenses and bond service generally are not assigned by accounting and budgetary convention to a major function. A COS study usually requires the rearrangement of certain expenditures into functional groups (i) to be more representative of the expenditure causation, (ii) to combine costs that have been incurred for a similar purpose, and (iii) to facilitate the allocation of cost responsibility. Thus, the functionalization of certain costs is merely a ratemaking mechanism to apportion such costs to the common utility function.

The typical functions of the Test Year Revenue Requirements are developed in the COS model and summarized on Table 4-1 and below.

Function and Description	Test Year <u>Amount</u>
Production. Those costs associated with generating or purchasing power and delivering that power to the utility's bulk transmission system	\$40,313,652
Transmission and Distribution. Those costs incurred in connection with the delivery of power over the bulk transmission system through the primary and secondary distribution system to the utility's consumers	\$13,863,265
<i>Customer.</i> Those costs that are related to the number, type and size of customers	<u>\$3,982,058</u>
Total	<u>\$58,158,995</u>

An analysis of the Test Year revenue requirements was made to estimate the functionalized Test Year revenue requirements.



. . .

Classification of Various Costs

Historically, electric utility costs or the components of the annual revenue requirement have generally been classified as (1) demand-related, (2) variable or energy-related, and (3) customer-related. Thus, if a cost or expense is fixed or does not vary directly with the level of kWh purchased or sold, the cost was assumed to be generally related to the demands or load of the customers and was allocated to the various customer classes on the basis of demand or load relationships. Debt service is one example of an expenditure generally classified as demand-related. If a cost or expense was viewed to vary with the amount of kWh the electric utility sold, the cost or expense was usually classified as energy-related and allocated to the various customer classes on the basis of kWh relationships. Purchased energy costs are a primary example of expenses classified as variable or energy-related and allocated on the basis of kWh sales. If the cost is directly related to the number of customers which are being served, these costs would generally be classified as such and allocated to the customer classes based on the customer relationship among the customer classes. An example of customer-related costs is meter reading expenses.

Until such time that the development of more detailed data with regard to hourly usage characteristics and costs is economically justified or legally required, the classification of costs described below reflects usual regulatory practice as well as a reasonable and equitable approach.

Demand (Fixed) Costs: Are defined as those costs incurred to maintain in readinessto-serve an electric system capable of meeting the total combined demands of all classes of customers. Demand costs are those costs that are generally fixed in the short-run, that do not materially vary directly with the number of kWh generated or sold, and that are not defined as customer costs. Demand costs will include that portion of operation and maintenance expenses; debt service; renewals, replacements and improvements; and other costs which are not designated as specifically customer or variable energy costs.

Customer Costs: Are defined as those costs directly related to the number, type and size of customers, such as customer accounting and collecting, and costs of meters and services.

Energy (Variable) Costs: Are defined as those costs that vary substantially or directly with the amount of energy sold or generated and purchased, including such items as fuel and a portion of operation and maintenance expense for production facilities.

Development of Allocation Factors

General

This section discusses the development of the factors utilized to allocate the capacity related, energy related, customer related, and other costs to the various customer classes. The aforementioned costs are allocated to the customer classes according to their respective customer class, and the particular cost allocation factor developed for each

class and for each type of cost. The customer classes include Residential, Commercial, Commercial Demand, and Lighting.

Demand Allocation Factors

"Demand Allocation" refers to the basis on which capacity and other demand related costs are distributed or assigned (allocated) among the various customer classes for the purpose of determining the revenues required from each class to recover such costs. The demand allocation factors, as developed and used herein, reflect the cost responsibility for each of the various customer classes in relation to the capacity or demand related costs to be allocated. The demand allocation factors were used to apportion the following capacity or demand related costs among the various customer classes.

- Production and purchased power expenses (fixed capacity costs only);
- Transmission and distribution expenses;
- Debt service requirements;
- Allowances for renewal and replacements, and reserves; and
- Payments to the City.

The demand allocation factors were developed based on historical demand and energy relationships filed with the Public Service Commission by the investor–owned utilities in Florida for 2018 and an analysis of the City's billing demands. The demand allocation factors are based on the estimated annual coincident and non-coincident peak demands. Table No. 4-2 summarizes the demand allocation factors. Table No. 4-5 shows a comparison of the results of the load research for the investor-owned utilities.

Energy Allocation Factors

Energy allocation factors are the basis for apportioning those costs or expenses classified as variable or energy related and assumed to vary directly with the level of kWh sales or generation. The costs classified herein as variable or energy related are fuel, purchased power, and the variable portion of other production expenses.

The projected fiscal year energy sales data are discussed in Section 2. The resulting energy allocation factors are shown on Table No. 4-3.

Customer Allocation Factors

Customer costs are defined herein as those costs related to the number of customers and the size of service required. Included in the customer related costs are the costs associated with meter reading, meter maintenance, customer installations, billing, collecting, and other customer related accounting, service, and information functions. The customer allocation factors were based on the projected average number of customers in each customer classification during the Test Year.

In apportioning customer related costs and revenues to the various customer classifications, customer allocation factors were utilized that recognized weighted and

unweighted customers and fixtures. The customer weighting factors were based on FPL customer charges. The customer allocation factors are shown on Table No. 4-4.

Other Allocation Factors

Certain elements of the annual revenue requirement are related to revenues. Miscellaneous other allocation factors including the revenue allocation factors are included in the COS model.

CITY OF LAKE WORTH BEACH, FLORIDA Electric Cost of Service Study Functionalization of Test Year Revenue Requirements

Ln		FY 2020
<u>No</u>	Function	Test Year Amount
1	Production	\$ 40,313,652
2	Transmission and Distribution	\$ 13,863,285
3	Customer	\$ 3,982,058
4	TOTAL REVENUE REQUIREMENTS	\$ 58,158,995

Summary of Demand Allocation Factors

		Average	12 CP	Ave	erage Demai	nd	PSC 12 CP Methodology			r	NCP Demand		
Ln.		Demand @ Source	Percent of Total	2020 Energy at Source	Average Demand	Percent of Total	Avg. 12 CP @12/13	@1/13		tal	Demand @ Source	Percent of Total	
No.	Customer Class	(kW)	(%)	(Mwh)	(kW)	(%)	(kW)	(kW)	(kW)	(%)	(kW)	(%)	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	
1	Residential	47,377	59.73%	274,869	31,378	61.05%	43,733	2,414	46,146	59.80%	62,668	62.36%	
2	Commercial	22,054	27.81%	120,283	13,731	26.72%	20,358	1,056	21,414	27.75%	25,878	25.75%	
3	Commercial Demand	8,979	11.32%	51,126	5,836	11.36%	8,288	449	8,737	11.32%	11,012	10.96%	
4	Lighting	902	1.14%	3,951	451	0.88%	833	35	867	1.12%	941	0.94%	
5	TOTAL SYSTEM	79,312	100.00%	450,229	51,396	100.00%	73,211	3,954	77,165	100.00%	100,499	100.00%	

Development of Demand Allocation Factors

				Average 12 CP					Non-Coincident Peak				
Ln.		Total FY 2020 Energy	Load Factor	Demand @ Meter	Delivery	Demand @ Source	Percent of Total	Load Factor	Demand @ Meter	Delivery	Demand @ Source	Percent of Total	
No.	Customer Class	(Mwh)	(%)[1]	(kW)	Efficiency	(kW)	(%)	(%)[1]	(kW)	Efficiency	(kW)	(%)	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	
1	Residential	264,974	66.23%	45,671	0.9640	47,377	59.73%	50.07%	60,412	0.9640	62,668	62.36%	
2	Commercial	115,953	62.26%	21,260	0.9640	22,054	27.81%	53.06%	24,946	0.9640	25,878	25.75%	
3	Commercial Demand	49,286	65.00%	8,656	0.9640	8,979	11.32%	53.00%	10,616	0.9640	11,012	10.96%	
4	Lighting	3,808	50.00%	869	0.9640	902	1.14%	47.90%	908	0.9640	941	0.94%	
5	TOTAL SYSTEM	434,021	-	76,457		79,312	100.00%	-	96,881		100,499	100.00%	

[1] Average 12 CP and NCP Load Factors are based on an FPL 2018 Load Research Study filed with the PSC and an analysis of billing demands for the Commercial Demand class.

Summary of Energy Allocation Factors

		Energy (Mwh) [1]	Allocation I	Factors (%)
Ln. No.	Customer Class	Energy Sales	Net Generation	Energy Sales	Net Generation
	(a)	(b)	(c)	(d)	(e)
1	Residential	264,974	274,869	61.05%	61.05%
2	Commercial	115,953	120,283	26.72%	26.72%
3	Commercial Demand	49,286	51,126	11.36%	11.36%
4	Lighting	3,808	3,951	0.88%	0.88%
5	TOTAL SYSTEM	434,021	450,229	100.00%	100.00%

Fiscal Year 2020

[1] A factor of 3.6% was assumed for System Losses based on data received from the City of Lake Worth.

Summary of Customer Allocation Factors

Fiscal	Vague	2020
г ізсаі	rear	2020

				Weighted Customers				
Ln.		Unweighted Customers		Weighting	Weighting		Unweighted - No	
No.	Customer Class	Customers	Factor	Factor ^[1]	Customers ^[2]	Factor	Customers	Factor
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Residential	23,758	86.33%	1.00	23,758	85.05%	23,758	88.09%
2	Commercial	3,128	11.37%	1.30	4,066	14.55%	3,128	11.60%
3	Commercial Demand	85	0.31%	1.30	111	0.40%	85	0.32%
4	Lighting	549	1.99%	0.00	0	0.00%	0	0.00%
5	TOTAL SYSTEM	27,519	100.00%		27,934	100.00%	26,970	100.00%

[1] Based on FPL customer charges.

[2] Weighted customers are equal to Column (b), Unweighted Customers multiplied times Column (d), the Weighting Factor.

Comparison of Load Research Results *

Ln.			12 CP	NCP
No.	Utility	Rate Schedule	Load Factor	Load Factor
	(a)	(b)	(c)	(d)
	Residential Service			
1	Florida Power & Light Company	RS-1	66.2%	50.1%
2	Duke Energy Florida	RS-1	54.8%	37.0%
3	Tampa Electric Company	RS	56.0%	45.0%
4	Gulf Power Company	RS	58.4%	38.8%
	General Service Non-Demand			
5	Florida Power & Light Company	GS-1 (less than 21kw)	62.3%	53.1%
6	Duke Energy Florida	GS-1 (no demand breakpoint)	57.6%	45.1%
7	Tampa Electric Company	GS (less than 50 kw)	58.0%	43.0%
8	Gulf Power Company	GS (less than 20 kw)	57.4%	43.5%
	General Service Demand			
9	Florida Power & Light Company	GSD-1 (21 - 499 kw)	72.1%	64.0%
10	Duke Energy Florida	GSD-1 (above 24,000 kwh/year)	74.2%	62.6%
11	Tampa Electric Company	GSD-1 (50 - 999 kw)	75.0%	63.0%
12	Gulf Power Company	GSD-1 (20 - 499 kw)	74.4%	56.4%

* The information shown for the investor owned electric utilities reflects the results of 2017-2018 Load Research reported to the PSC.

General

As one of the factors considered in the development of the proposed rate levels and rate structures included herein, certain analyses common in ratemaking have been employed which provide a reasonable indication of the revenue levels required to recover the full cost of service or revenue requirement of each customer class. Since it is not the practice in utility accounting to maintain a subdivision of accounts that will report the cost of rendering service to each customer class, an allocation of costs must be made on the basis of parameters predicated upon the available classifications of operating expense and utility plant.

Present and Proposed Rate Classifications

The present customer classifications are as follows:

- Residential
- Commercial
- Commercial Demand
- Lighting

Allocation and Assignment of the Cost of Service

The allocated cost of service was developed, along with the target rate change for each class, based on a comparison of existing rate revenues.

Table No. 5-1 summarizes the results of the allocated COS study. Table No. 5-2 shows the results of the functionalization and classification of the Test Year revenue requirements and Table No. 5-3 summarizes the cost of service by customer class.

The target rate changes by customer class were developed to move toward the cost of service. The projected Test Year revenues under the existing rates and charges, the target revenue adjustments, and the percentage change necessary to recover the revenue requirements to move toward the cost of service for each of the major rate classifications, as summarized from the COS model, are as follows:



	Test Year 2020						
	Total Existing						
	Revenue	Target Adjustments					
Customer Class	(\$000)	(\$000)	(%) [1]				
Residential	\$35,500	\$0	0.0%				
Commercial	16,207	(313)	-2.2%				
Commercial Demand	6,143	(117)	-2.2%				
Lighting	708	30	5.0%				
Total System	\$58,559	(\$400)	-0.8%				

[1] Percent of existing base rates and PCA revenues.

Based on the cost of service and target adjustments for the Test Year and the projected revenue requirements, the target adjustments for Fiscal Year 2022 can be estimated as follows:

	Fi	Fiscal Year 2022						
	Total Existing Revenue	Target Adjustments						
Customer Class	(\$000)	(\$000)	(%) [1]					
Residential	\$36,200	\$2,896	8.0%					
Commercial	16,151	\$808	5.0%					
Commercial Demand	6,162	\$308	5.0%					
Lighting	700	\$35	5.0%					
Total System	\$59,213	\$4,047	6.8%					

[1] Percent of existing base rates and PCA revenues.

Test Year Cost of Service by Customer Class

Line				Commercial						
No.	Description	Total	Allocation Factor	Residential	Commercial	Demand	Lighting	Total		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(j)		
3 4										
5	Production									
6	Production Demand related									
7	Production - D	31,643,020	12 CP	18,923,262	8,781,229	3,582,894	355,635	31,643,020		
8	Blank	0	N/A	0	0	0	0	0		
9	Blank	0	N/A	0	0	0	0	0		
10	Blank	0	N/A	0	0	0	0	0		
11	Blank	0	N/A	0	0	0	0	0		
12	Blank	0	N/A	0	0	0	0	0		
13	Production Energy related									
14	Fuel & PP	8,670,632	Test Year Sales - kWh	5,293,507	2,316,439	984,605	76,080	8,670,632		
15	Variable O&M	0	N/A	0	0	0	0	0		
16	Blank	0	N/A	0	0	0	0	0		
17	Blank	0	N/A	0	0	0	0	0		
18	Production Direct Assignment									
19	Direct Assignment A	0	N/A	0	0	0	0	0		
20	Other	0	N/A	0	0	0	0	0		
21	Total Production	40,313,652		24,216,769	11,097,669	4,567,499	431,715	40,313,652		
22	Check	TRUE								
23		40,313,652								
24	Transmission									
25	Demand Related									
26	115 kV	0	N/A	0	0	0	0	0		
27	69 kV	0	N/A	0	0	0	0	0		
28	115 kV - Sub	0	N/A	0	0	0	0	0		
29	69 kV - Sub	0	N/A	0	0	0	0	0		
30	Blank	0	N/A	0	0	0	0	0		
31	Blank	0	N/A	0	0	0	0	0		
32	Direct Assignment									
33	Service 1	0	N/A	0	0	0	0	0		
34	Service 2	0	N/A	0	0	0	0	0		
35	Blank	0	N/A	0	0	0	0	0		
36	Total Transmission	0		0	0	0	0	0		
37	Check	TRUE								
38		0								
39	Distribution									
40	Demand Related									
40	Substations	0	N/A	0	0	0	0	0		
42	Primary-Dmd	0	N/A	0	0	0	0	0		
43	Sec-Dmd	0	N/A	0 0	0	0	0	0		
44	Total Demand	13,863,285	1 NCP	8,644,650	3,569,729	1,519,035	129,872	13,863,285		
45	Blank	0	N/A	0	0	0	0	0		
46	Blank	0	N/A	0	Ő	0	0	0		
47	Customer Related	Ũ		Ŭ	°,		Ŭ	Ŭ		
48	Primary-Cust	0	N/A	0	0	0	0	0		
49	Sec-Cust	0	N/A	0	ő	Ő	ů 0	0		
50	Service Drp	0	N/A	0	0	0	0	0		
51	Trans-CR	0	N/A	0	0	0	0	0		
52	Total Cust	0	N/A	0	0	0	0	0		
53	Blank	0	N/A	0	0	0	0	0		
54	Direct Assignment	0		Ū	-	-	3	0		
55	Lighting	0	N/A	0	0	0	0	0		
56	Blank	0	N/A	0	0	0	0	0		
57	Total Distribution	13,863,285	-	8,644,650	3,569,729	1,519,035	129,872	13,863,285		
58	Check	TRUE		- /,0		,,		.,,		

Test Year Cost of Service by Customer Class

Line									nmercial				
No.	Description	Total	Allocation Factor		Residential		Commercial	D	emand		Lighting		Total
	(a)	(b)	(c)		(d)		(e)		(f)		(g)		(j)
60	<u>Customer</u>												
61	Meters	1,672,339	Weighted Customers		1,422,315		243,408		6,615		0		1,672,339
62	Cust. Accounting	0	Weighted Customers		0		0		0		0		0
63	Cust. Service	2,309,719	Weighted Customers		1,964,403		336,179		9,137		0		2,309,719
64	Sales	0	Weighted Customers		0		0		0		0		0
65	Blank	0	N/A		0		0		0		0		0
66	Total Customer	3,982,058 TRUE			3,386,718		579,587		15,752		0		3,982,058
67 68	Check	3,982,058											
		3,982,058											
69	Direct Assignments Other												
70	Lighting Adjustment	0			(90,000)		(50,000)		(50,000)		190,000		0
71	Total Direct Assignment Other	0			(90,000)		(50,000)		(50,000)		190,000		0
72	Check	TRUE											
73													
74	Total Cost of Service	\$ 58,158,995		\$	36,158,138	\$	15,196,985	\$	6,052,286	\$	751,587	\$	58,158,995
75	Check	TRUE											
76	Total Unit Cost (\$/kWh)			\$	0.136		0.131		0.123		0.197		0.134
77	Base Rate Unit Cost (\$/kWh)			\$	0.136	\$	0.131	\$	0.123	\$	0.197	\$	0.134
78													
79													
	Devenue Adereses Check												
80	Revenue Adequacy Check												
81	TY Base Rate Revenue	\$35,336,654	TY Base Rate Rev		\$20,873,045		\$9,971,035		\$3,887,574		\$605,000		\$35,336,654
82 83	TY Other Revenue - PCA TY Other Revenue	\$15,233,947 \$7,988,394	PCA		9,660,800		4,148,787 2,087,373		1,424,360 831,308		0 103,234		15,233,947 \$7,988,394
83 84	TY Other Revenue	\$7,988,394 \$0	Revenue Req		4,966,479 \$0		2,087,373 \$0		831,308 \$0		103,234		\$7,988,394 \$0
85	Subtotal	\$58,558,995			\$35,500,324		\$16,207,195		\$6,143,242		\$708,234		\$58,558,995
05	Existing Rate Unit Cost (\$/kwh)	\$30,530,995		\$	0.134	¢	0.140	\$	0.125	¢	0.186	¢	0.135
01				Ψ		Ψ		Ψ		Ψ			
88	TY Rate Revenue	\$58,558,995			\$35,500,324		\$16,207,195		\$6,143,242		\$708,234		\$58,558,995
89 90	TY Retail Rate Revenue TY Total Rate Revenue	\$0 \$58,558,995	Other Revenue		0 \$35,500,324		0 \$16,207,195		0 \$6,143,242		0 \$708,234		\$0 \$58,558,995
90 91	I F Total Rate Revenue	\$58,558,995			\$35,500,324		\$16,207,195		Ф0,143,242		\$708,234		\$38,338,995
92	TY Rate Revenue Requirement	\$58,158,995		\$	36,158,138	\$	15,196,985		\$6,052,286		\$751,587		\$58,158,995
93	TY Other Retail Rate Revenue	\$0		Ŷ	00,100,100	Ŷ	0		0		0		0
94	TY Total Rate Revenue Requirement	\$58,158,995			\$36,158,138		\$15,196,985		\$6,052,286		\$751,587		\$58,158,995
95													
96	Difference \$	(\$400,000)		\$	657,814		(\$1,010,210)		(\$90,956)		\$43,353		(400,000)
97													
98 99	Unadiusted Difference \$	(\$400.000)			\$657.814		(\$1,010,210)		(\$90,956)		\$43,353		(400,000)
100	Unadjusted Difference %	-0.8%			\$057,814 2.2%		-7.2%		(\$90,956) -1.7%		\$43,353 7.2%		(400,000)
100	Shaajusted Difference /6	-0.0 /0			2.270		-1.2/0		-1.7 /0		1.270		
102	Target Difference \$	(\$400,000)			\$0		(\$313,387)		(\$116,863)		\$30,250		(400,000)
103	Target Difference %	-0.8%			0.0%		-2.2%		-2.2%		5.0%		

CITY OF LAKE WORTH BEACH, FLORIDA Electric Cost of Service Study Classification of Test Year Revenue Requirements

Ln		FY 2020					
<u>No</u>	Classification	Test Year Amount					
	Production						
1	Demand Related	\$ 31,643,020					
2	Energy Related	8,670,632	_				
3	Total Production	\$ 40,313,652					
	Transmission and Distribution						
4	Demand Related	\$ 13,863,285					
5	Customer Related	0					
6	Direct Assignment	0					
7	Total Distribution	\$ 13,863,285	•				
8	Customer (Customer Related)	\$ 3,982,058					
			•				
9	TOTAL REVENUE REQUIREMENTS	\$ 58,158,995	•				

Results of the Cost of Service Analysis

Customer Class		Existing		-
Customer Clubb	Cost of Service	Revenues	Difference	Difference (%) [1]
(a)	(b)	(c)	(d)	(e)
lential	\$36,158,138	\$35,500,324	(\$657,814)	-2.2%
mercial	15,196,985	16,207,195	1,010,210	7.2%
nercial Demand	6,052,286	6,143,242	90,956	1.7%
ing	751,587	708,234	(43,353)	-7.2%
Ĺ	\$58,158,995	\$58,558,995	\$400,000	0.8%
1	(a) dential mercial mercial Demand ting L	dential \$36,158,138 mercial 15,196,985 mercial Demand 6,052,286 ting 751,587	dential\$36,158,138\$35,500,324mercial15,196,98516,207,195mercial Demand6,052,2866,143,242ting751,587708,234	dential\$36,158,138\$35,500,324(\$657,814)mercial15,196,98516,207,1951,010,210mercial Demand6,052,2866,143,24290,956ting751,587708,234(43,353)

[1] Percent of existing base rates and PCA revenues.

Calculation of Fixed Costs per Customer [1]

Ln.			
No.	Description	Residential	Commercial
	(a)	(b)	(c)
1	Distribution Fixed Costs [2]	\$8,644,650	\$3,569,729
2	Customer Fixed Costs [2]	\$3,386,718	\$579,587
3	Total	\$12,031,368	\$4,149,316
4	Number of Customers [3]	23,758	3,128
5	Fixed Cost/Customer/Year	\$506.41	\$1,326.51
6	Fixed Cost/Customer/Month	\$42.20	\$110.54
7	Purchased Capacity [2]	\$18,923,262	\$8,781,229
8	Total Including Purchased Capacity	\$30,954,630	\$12,930,545
9	Fixed Cost/Customer/Month	\$108.58	\$344.48
10	Current Minimum Monthly Bill	\$31.40	\$50.00
11	Percent of Line 6	74%	45%
12	Percent of Line 9	29%	15%
13	Proposed Minimum Monthly Bill	\$35.00	\$100.00

[1] Based on Electric Cost of Service Study.

[2] From Table No. 5-1.

[3] From Table No. 2-1.

General Rate Design Criteria

Rate design is the culmination of a rate study whereby the rates and charges for each customer classification are established in such a manner that the total revenue requirement of the system will be recovered in an equitable manner consistent with the results of the allocated cost of service study and any applicable orders and/or requirements of local, state, and federal regulatory authorities. To the extent possible, rate design should consider and reflect overall revenue stability, historical rate form, conservation considerations, competitiveness with neighboring utility systems, and the policies of those charged with the management and operation of the City.

The proposed rate levels and rate structures developed and submitted to the City for consideration and adoption should continue to meet the following electric utility rate criteria for service provided by municipally owned utilities:

- Electric rates should be based on a rate policy which calls for the lowest possible prices consistent with customer requirements, quality service efficiently rendered, and a payment to the City.
- Electric rates should be simple and understandable.
- Electric rates should be equitable among classes of customers and individuals within classes, taking into consideration the cost of service.
- Electric rates should be designed to encourage the most efficient use of the utility plant and discourage unnecessary or wasteful use of service.
- Electric rates should comply with applicable orders and requirements of local, state and federal regulatory authorities that have jurisdiction.

Proposed Rates

The existing rates and the proposed rates necessary to recover the revenue requirements are summarized on Table No. 6-1. The proposed rates reflect with the required rate changes by class applied to the customer, demand and energy charges. Table No. 6-2 shows calculation of the projected revenues at the proposed rates.

Table No. 6-1 also shows the existing and proposed minimum bills for each rate class. Base on the cost of service shown on Table No. 5-1 and Table No. 5-4, the fixed distribution and customer costs allocated to the residential class are \$8,664,650 and \$3,386,718, respectively, for a total of \$12,051,368. Dividing this total by 23,758 residential customers results in \$507 per customer per year, or approximately \$42 per customer per month. This does not include fixed purchased power costs. Based on this fixed cost per customer, it is proposed that the residential minimum charge be increased



to \$35 per month. Similarly, the fixed distribution and customer costs allocated to the commercial class results in approximately \$111 per customer per month, and it is proposed that the commercial minimum charge be increased to \$100 per month.

Rate Stabilization Fund

It is recommended that the City establish a Rate Stabilization Fund to use if necessary to avoid variations in customers' bills because of changes in the cost of purchased power. Section 4.08 of the City's Bond Resolution states "The issuer may transfer into the Rate Stabilization Fund such moneys which are on deposit in the Utility Reserve Fund as it deems appropriate. The issuer may transfer such amount of moneys from the Rate Stabilization Fund to the Revenue Fund as it deems appropriate."

Power Cost Adjustment

It is recommended that a separate rate component continue to be implemented that recovers the cost of purchased power. It is proposed that this factor be calculated every year and adjusted as necessary. The proposed factor includes the variable Stanton costs, capacity and energy purchased power costs, fuel and transmission costs. Table No. 3-4 shows the proposed calculation of the PCA.

Summary

The following is a comparison of the projected Fiscal Year 2022 revenues produced by applying the projected billing determinants to the existing rates and the proposed rates for each classification, plus an allocation of other revenues:

	Fiscal Year 2022						
	Total Existing	Proposed	Rate				
	Revenue	Revenue	Adjustment				
Customer Class	(\$000)	(\$000)	(%) [1]				
Residential	\$36,200	\$39,096	8.0%				
Commercial	16,151	16,959	5.0%				
Commercial Demand	6,162	6,470	5.0%				
Lighting	700	735	5.0%				
Total System	\$59,213	\$63,260	6.8%				

[1] Percent of existing base rates and PCA revenues.

Electric Cost of Service Study

Summary of Existing and Proposed Rates and Charges

Ln. No.	Rate Description	Unit	Existing Rates Effective October 1, 2019	Proposed Rates Effective April 1, 2022
110.	(a)	(b)	(c)	(d)
	Residential Service			.,
	Schedule R-S			
1	Monthly Customer Charge	\$/Mo.	\$10.53	\$10.55
	Energy Charges < 1,000 kWh's			
2	Base	\$/kWh	\$0.05148	\$0.07000
3	Power Cost Adjustment	\$/kWh	\$0.03578	\$0.03610
	Energy Charges > 1,000 kWh's			
4	Base	\$/kWh	\$0.07880	\$0.09000
5	Power Cost Adjustment	\$/kWh	\$0.03900	\$0.04610
6	Capacity Charge All kWh's	\$/kWh	\$0.01020	-
7	Minimum Bill	\$/Mo.	\$31.40	\$35.00
	Commercial Service			
	Schedule C-S			
8	Monthly Customer Charge	\$/Mo.	\$16.66	\$17.00
	Energy Charges All kWh's			
9	Base	\$/kWh	\$0.07040	\$0.08400
10	Power Cost Adjustment	\$/kWh	\$0.03578	\$0.03820
11	Capacity	\$/kWh	\$0.01020	-
12	Minimum Bill - Single Phase	\$/Mo.	\$50.00	\$50.00
13	Minimum Bill - Poly Phase	\$/Mo.	\$50.00	\$100.00
	Commercial TOU Service			
14	Schedule CT-S	\$/Mo.	¢20.07	¢20.00
14	Monthly Customer Charge	\$/IVIO.	\$28.97	\$30.00
1.5	Energy Charges All kWh's Off - Peak	\$/kWh	¢0.00460	¢0.00400
15 16	On - Peak	\$/kWh	\$0.08460 \$0.26510	\$0.08400 \$0.26000
10		φ/ π + + π	φ0.20510	ψ0.20000
	Commercial Demand Service			
17	Schedule CD-S Monthly Customer Charge	\$/Mo.	\$120.00	\$130.00
17		φ/1010.	\$120.00	\$150.00
18	Energy Charges All kWh's Base	\$/kWh	\$0.03550	\$0.04950
18 19	Power Cost Adjustment	\$/kWh	\$0.03330 \$0.02890	\$0.04930 \$0.03820
20	Capacity	\$/kWh	\$0.01020	- -
21	Demand Charge	\$/kW	\$14.48	\$12.00
22	Minimum Bill	\$/Mo.	\$140.00	\$250.00
			φ 1 10100	<i><i><i><i></i></i></i></i>

Electric Cost of Service Study

Summary of Existing and Proposed Rates and Charges

Ln.			Existing Rates Effective		Proposed Rates Effective
No.	Rate Description	Unit	October 1, 2019	· <u> </u>	April 1, 2022
	(a) Commercial Demand TOU Service	(b)	(c)		(d)
	Schedule CDT-S				
23	Monthly Customer Charge	\$/Mo.	\$130.32		\$140.00
	Energy Charges All kWh's				
24	Off - Peak	\$/kWh	\$0.06270		\$0.06200
25	On - Peak	\$/kWh	\$0.24320		\$0.24000
26	Demand Charge	\$/kW	\$7.39		\$7.00
				Monthly	
	Private Area Lighting			kWh	
_	Schedule L-P	ф Л Л	¢11.co		¢10.01
27	175 W Mercury Vapor	\$/Mo.	\$11.63		\$12.21
8	400 W Mercury Vapor	\$/Mo.	\$18.24		\$19.15
9	1,000 W Mercury Vapor	\$/Mo.	\$35.89		\$37.68
0	100 W Sodium Vapor	\$/Mo.	\$9.46		\$9.93
1	250 W Sodium Vapor	\$/Mo.	\$13.58		\$14.26
2	360 W Sodium Vapor	\$/Mo.	\$16.24		\$17.05
3	400 W Sodium Vapor	\$/Mo.	\$16.33		\$17.15
4	48 W LED	\$/Mo.	-	20	\$9.00
5	70 W LED	\$/Mo.	-	29	\$9.70
6	80 W LED	\$/Mo.	-	33	\$9.70
7	101 W LED	\$/Mo.	-	41	\$16.30
8	110 W LED	\$/Mo.	-	45	\$16.30
9	133 W LED	\$/Mo.	-	55	\$16.30
0	150 W LED	\$/Mo.	-	62	\$16.30
1	Wood Pole and Span	\$/Mo.	\$2.55		\$10.00
2	Concrete Pole and Span	\$/Mo.	\$3.82		\$15.00
3	Underground Conductors up to 150 ft	\$/ft/Mo.	\$1.27		\$1.33
4	Underground Conductors 150-300 ft	\$/ft/Mo.	\$2.55		\$2.68
	Street Lighting				
	Schedule L-S				
5	100 W Sodium Vapor	\$/Mo.	\$7.48		\$7.85
6	150 W Sodium Vapor	\$/Mo.	\$8.89		\$9.33
7	250 W Sodium Vapor	\$/Mo.	\$11.68		\$12.26
8	360 W Sodium Vapor	\$/Mo.	\$14.47		\$15.19
9	400 W Sodium Vapor	\$/Mo.	\$16.28		\$17.09
0	48 W LED	\$/Mo.	-	20	\$9.00
1	70 W LED	\$/Mo.	-	29	\$9.70
2	80 W LED	\$/Mo.	-	33	\$9.70
3	101 W LED	\$/Mo.	-	41	\$16.30
4	110 W LED	\$/Mo.	-	45	\$16.30
5	133 W LED	\$/Mo.	-	55	\$16.30
6	150 W LED	\$/Mo.	-	62	\$16.30
0	Wood Pole and Span	\$/Mo.	\$2.55		\$10.00
7	Concrete Pole and Span	\$/Mo.	\$3.82		\$15.00
58	Underground Conductors up to 150 ft	\$/ft/Mo.	\$1.27		\$1.33
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P:\ESO\1790-ORL\Lake Worth Beach\2020 Cost of Service Study\WP\Lake Worth Cost of Service Tables3.xlsm

Projected Revenues at PROPOSED RATES Fiscal Year Ending September 30, 2022

Ln. No.	Proposed Billing Customer Class Description Rate Determinants		Base Rate Revenue	ower Cost djustment	Total Revenue			
	(a)		(b)	(c)	 (d)	 (e)		(f)
	Residential Regular							
1	Customer Charge	\$	10.55	286,364	\$ 3,021,140	\$ -	\$	3,021,140
2	Energy Charge < 1,000 kWhs	\$	0.07000	210,058,337	14,704,084	-		14,704,084
3	Energy Charge > 1,000 kWhs	\$	0.09000	56,175,297	5,055,777	-		5,055,777
4	Power Cost Adjustment < 1,000 kWhs	\$	0.03610	210,058,337	-	7,583,106		7,583,106
5	Power Cost Adjustment > 1,000 kWhs	\$	0.04610	56,175,297	-	2,589,681		2,589,681
6	Capacity Charge	\$	-	266,233,634	 -	 -		-
7	Subtotal Residential Regular				\$ 22,781,001	\$ 10,172,787	\$	32,953,788
	Residential Net Metering							
8	Customer Charge	\$	10.55	1,588	\$ 16,753	\$ -	\$	16,753
9	Energy Charge < 1,000 kWhs	\$	0.07000	1,022,362	71,565	-		71,565
10	Energy Charge > 1,000 kWhs	\$	0.09000	273,407	24,607	-		24,607
11	Power Cost Adjustment < 1,000 kWhs	\$	0.03610	1,022,362	-	36,907		36,907
12	Power Cost Adjustment > 1,000 kWhs	\$	0.04610	273,407	-	12,604		12,604
13	Capacity Charge	\$	-	1,295,769	 -	 -		-
14	Subtotal Residential Net Metering				\$ 112,925	\$ 49,511	\$	162,437
15	Residential Minimum Bill Revenue		\$35.00	23,160	\$ 566,262	\$ -	\$	566,262
16	Total Residential			267,529,403	\$ 23,460,188	\$ 10,222,299	\$	33,682,486
	Commercial Regular							
17	Customer Charge	\$	17.00	37,416	\$ 636,072	\$ -	\$	636,072
18	Energy Charge	\$	0.08400	111,923,908	9,401,608	-		9,401,608
19	Capacity Charge	\$	-	111,923,908	-	-		-
20	Power Cost Adjustment	\$	0.03820	111,923,908	 -	 4,275,493		4,275,493
21	Subtotal Commercial Regular				\$ 10,037,680	\$ 4,275,493	\$	14,313,174
	Commercial Net Metering							
22	Customer Charge	\$	17.00	120	\$ 2,040	\$ -	\$	2,040
23	Energy Charge	\$	0.08400	550,196	46,216	-		46,216
24	Capacity Charge	\$	-	550,196	-	-		-
25	Power Cost Adjustment	\$	0.03820	550,196	 -	 21,017		21,017
26	Subtotal Commercial Net Metering				\$ 48,256	\$ 21,017	\$	69,274
27	Commercial Minimum Bill Revenue -1Ph		\$50.00	6,240	\$ 205,920	\$ -	\$	205,920
28	Commercial Minimum Bill Revenue -PolyPh		\$100.00	1,440	\$ 119,520	\$ -	\$	119,520
29	Total Commercial			112,474,104	\$ 10,411,377	\$ 4,296,511	\$	14,707,888

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Projected Revenues at PROPOSED RATES Fiscal Year Ending September 30, 2022

Ln. No.	Customer Class Description	Proposed Rate (b)		Billing Determinants		Base Rate Revenue		Power Cost Adjustment		Total Revenue
	(a)		(D)	(c)		(d)		(e)		(f)
	Commercial Service Demand									
30	Customer Charge	\$	130.00	1,020	\$	132,600	\$	-	\$	132,600
31	Energy Charge	\$	0.04950	49,285,812		2,439,648		-		2,439,648
32	Capacity Charge	\$	-	49,285,812		-		-		-
33	Power Cost Adjustment	\$	0.03820	49,285,812		-		1,882,718		1,882,718
34	Demand Charge	\$	12.00	105,763		1,269,156		-		1,269,156
35	Total Commercial Service Demand				\$	3,841,404	\$	1,882,718	\$	5,724,122
36	Total Private Area Lighting			1,233,570	\$	262,500			\$	262,500
37	Total Street Lights			2,548,000	\$	372,750			\$	372,750
38	TOTAL RATE REVENUES				\$	38,348,218	\$	16,401,527	\$	54,749,746
39	OTHER REVENUES									7,993,439
40	TOTAL REVENUES								\$	62,743,185
41	ADJUSTED FOR 4/22 EFFECTIVE DAT	ſE							\$	61,154,597

General

This section provides a summary of the billing effects of the proposed rates for major rate classifications. Specifically, the tables in this section provide for two types of billing comparisons for each major rate classification at various levels of usage which include (i) monthly bills calculated under the City's proposed rates compared with bills calculated under its existing rates, and (ii) monthly bills calculated under the City's existing and proposed rates compared with those calculated under the rates of selected utilities for the billing month of January 2021.

Existing and Proposed Rates

Table No. 7-1 provides a comparison of monthly bills calculated under the proposed rates and the existing rates over a wide range of usage levels.

Comparisons with Other Utilities

Table No. 7-2 show the City's existing and proposed rates along with those of other electric utilities. As can be seen from these tables, the City's rates are comparable to other utilities.



Comparison of Existing and Proposed Residential Service Rates [1]

			Residential Service				
			Existing	Proposed 2022			
Customer Charge		(\$)	\$10.53	\$10.55			
Energy Charge	First 1,000 kWh	(\$/kWh)	\$0.05148	\$0.07000			
Energy Charge	Additional kWh	(\$/kWh)	\$0.07880	\$0.09000			
PCA	First 1,000 kWh	(\$/kWh)	\$0.03578	\$0.03610			
PCA	Additional kWh	(\$/kWh)	\$0.03900	\$0.04610			
Capacity Charge	All kWh	(\$/kWh)	\$0.01020	-			
Minimum Bill			\$31.40	\$35.00			
Total for 1,000 kV	Wh		\$107.99	\$116.65			
Neighboring Utili	ty 1,000 kWh	\$106.47	\$119.37				

	Exis	ting	P	roposed	Difference		
Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	
500	59.26	11.852	63.60	12.720	4.34	0.868	
600	69.01	11.501	74.21	12.368	5.20	0.867	
700	78.75	11.250	84.82	12.117	6.07	0.867	
800	88.50 11.062		95.43	6.93	0.867		
900	98.24	10.916	106.04	11.782	7.80	0.866	
1,000	107.99	10.799	116.65	11.665	8.66	0.866	
1,100	120.79	10.981	130.26	11.842	9.47	0.861	
1,200	133.59	11.133	143.87	11.989	10.28	0.857	
1,300	146.39	11.261	157.48	12.114	11.09	0.853	
1,400	159.19	11.371	171.09	12.221	11.90	0.850	
1,500	171.99	11.466	184.70	12.313	12.71	0.847	
2,000	235.99	11.800	252.75	12.638	16.76	0.838	
2,500	299.99	12.000	320.80	12.832	20.81	0.832	
3,000	363.99	12.133	388.85	12.962	24.86	0.829	
4,000	491.99	12.300	524.95	13.124	32.96	0.824	
5,000	619.99	12.400	661.05	13.221	41.06 0.82		

[1] Amounts shown reflect single phase, inside the City service.

[2] Proposed Power Cost Adjustment for April 2022.

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Comparison of Existing and Proposed General Service Non-Demand Rates [1]

		General Service Non-Demand					
		Existing	Proposed 2022				
Customer Charge	(\$)	\$16.66	\$17.00				
Energy Charge All kWh	(\$/kWh)	\$0.07040	\$0.08400				
Power Cost Adjustment	(\$/kWh)	\$0.03578	\$0.03820				
Capacity Charge	(\$/kWh)	\$0.01020	-				
Minimum Bill - Single Phase		\$50.00	\$50.00				
Minimum Bill - Poly Phase		\$50.00	\$100.00				
Total for 1,500 kWh		\$191.23	\$200.30				

	Existi	ng	P	roposed	Difference		
Usage	Amount Unit Cost		Amount	Unit Cost	Amount	Unit Cost	
(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	
1,000	133.04	13.304	139.20	13.920	6.16	0.61	
1,250	162.14	12.971	169.75	13.580	7.62	0.60	
1,500	191.23	12.749	200.30	13.353	9.07	0.60	
1,750	220.33	12.590	230.85	13.191	10.53	0.60	
1,900	237.78	12.515	249.18	13.115	11.40	0.60	
2,000	249.42	12.471	261.40	13.070	11.98	0.59	
3,000	365.80	12.193	383.60	12.787	17.80	0.59	
4,000	482.18	12.055	505.80	12.645	23.62	0.59	
5,000	598.56	11.971	628.00	12.560	29.44	0.58	
6,000	714.94	11.916	750.20	12.503	35.26	0.58	
7,000	831.32	11.876	872.40	12.463	41.08	0.58	
8,000	947.70	11.846	994.60	12.433	46.90	0.58	
9,000	1,064.08	11.823	1,116.80	12.409	52.72	0.58	
10,000	1,180.46	11.805	1,239.00	12.390	58.54	0.58	

[1] Amounts shown reflect single phase, inside the City service.

[2] Proposed Power Cost Adjustment for April 2022.

Comparison of Existing and Proposed Rates for General Service Demand [1]

		General Serv	vice Demand
		Existing	Proposed 2022
Customer Charge	(\$)	\$120.00	\$130.00
Demand Charge	(\$/kW)	\$14.48	\$12.00
Energy Charge All kWh	(\$/kWh)	\$0.03550	\$0.04950
Power Cost Adjustment	(\$/kWh)	\$0.02890	\$0.03820
Capacity Charge	(\$/kWh)	\$0.01020	-
Total for 30 kW and 6,000 kW	\$1,002.00	\$1,016.20	

			Existing		Pı	roposed	Difference			
Demand	Hours	Usage	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost		
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)		
30	200	6,000	1,002.00	16.700	1,016.20	16.937	14.20	0.237		
	300	9,000	1,225.80	13.620	1,279.30	14.214	53.50	0.594		
	400	12,000	1,449.60	12.080	1,542.40	12.853	92.80	0.773		
150	200 300 400	30,000 45,000 60,000	4,530.00 5,649.00 6,768.00	15.100 12.553 11.280	4,561.00 5,876.50 7,192.00	15.203 13.059 11.987	31.00 227.50 424.00	0.103 0.506 0.707		
500	200 300 400	100,000 150,000 200,000	14,820.00 18,550.00 22,280.00	14.820 12.367 11.140	14,900.00 19,285.00 23,670.00	14.900 12.857 11.835	80.00 735.00 1,390.00	0.080 0.490 0.695		

[1] Amounts shown reflect inside the City service, and exclude any applicable primary service discount or power factor correction.

[2] Proposed Power Cost Adjustment for April 2022.

Inter-Utility Comparison of Typical Monthly Electric Bills^[1]

Ln.		Fuel Adj.				Resident	tial Class			
No.	Utility	\$/1000 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	1,200 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Lake Worth Beach (Existing)	35.78	34.90	59.26	83.63	107.99	133.59	235.99	299.99	363.99
2	City of Lake Worth Beach (Proposed)	36.10	37.08	63.60	90.13	116.65	143.87	252.75	320.80	388.85
	Other Florida Municipalities:									
3	City of Alachua	10.75	35.18	61.22	87.25	113.29	136.16	227.64	284.82	341.99
4	City of Bushnell	19.00	37.41	64.83	92.24	119.65	141.58	229.30	284.13	338.95
5	Fort Pierce Utilities Authority	(8.00)	31.07	56.12	81.18	108.84	130.96	219.48	274.80	330.12
6	Gainesville Regional Utilities	30.00	41.13	67.25	93.38	123.13	148.87	251.83	316.18	380.53
7	Jacksonville Electric Authority	32.50	31.25	57.00	82.75	108.50	129.10	211.50	263.00	317.00
8	Kissimmee Utilities Authority	(38.28)	31.38	52.58	73.79	94.99	114.48	192.46	241.20	289.93
9	City of Lakeland	35.00	33.22	55.43	77.65	99.87	119.08	198.98	250.07	301.15
10	City of Leesburg	2.50	35.29	58.39	81.48	104.58	127.59	219.63	277.15	334.67
11	City of New Smyrna Beach	15.75	28.70	51.75	74.80	97.85	116.29	190.05	236.15	282.25
12	City of Newberry	5.00	35.00	61.50	88.00	114.50	144.00	228.00	280.50	333.00
13	City of Ocala	14.00	42.91	68.82	94.73	120.64	141.37	224.28	276.10	327.92
14	Orlando Utilities Commission	32.02	36.75	61.00	85.25	109.50	132.90	226.50	285.00	343.50
15	City of Tallahassee	28.08	33.66	59.27	84.89	110.50	130.99	212.96	264.19	315.42
	<u>Florida Cooperatives</u>									
16	Sumter Electric Cooperative	(20.70)	53.48	75.95	98.43	120.90	142.88	230.80	285.75	340.70
17	Central Florida Cooperative	(5.50)	52.58	75.70	98.83	121.95	140.45	214.45	260.70	306.95
18	Clay Electric Cooperative	11.40	43.98	64.95	85.93	106.90	127.44	209.60	260.95	312.30
	Investor-Owned Utilities: ^[2]									
19	Florida Power and Light	21.23	32.22	55.60	78.98	102.36	125.44	217.75	275.44	333.13
20	Gulf Power Company	30.70	51.58	82.80	114.03	145.25	170.23	270.15	332.60	395.05
21	Duke Energy	28.11	41.78	71.48	101.17	130.87	160.38	278.43	352.21	425.99
22	Tampa Electric Company	28.56	39.21	62.46	85.71	108.97	131.81	223.18	280.29	337.40

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include January 2021 fuel adjustments and franchise fees but do not include taxes.

[2] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the the Florida Public Service Commission (FPSC). Franchise fees of 6 percent are included for each of the IOU's listed.

Table 7-2 Page 1 of 3

Inter-Utility Comparison of Typical Monthly Electric Bills^[1]

Ln.		Fuel Adj.			Genera	al Service N	on-Deman	d Class		
No.	Utility	\$/1000 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Lake Worth Beach (Existing)	35.78	45.76	74.85	103.95	133.04	191.23	249.42	307.61	365.80
2	City of Lake Worth Beach (Proposed)	38.20	47.55	78.10	108.65	139.20	200.30	261.40	322.50	383.60
	Other Florida Municipalities:									
3	City of Alachua	10.75	38.99	66.31	93.62	120.93	175.56	230.18	284.81	339.43
4	City of Bushnell	19.00	40.72	71.43	102.15	132.86	194.29	255.72	317.15	378.58
5	Fort Pierce Utilities Authority	(8.00)	33.61	61.37	89.14	116.90	172.43	227.96	283.49	339.02
6	Gainesville Regional Utilities	30.00	63.10	95.20	127.30	159.40	223.60	304.05	384.50	464.95
7	Jacksonville Electric Authority	32.50	33.65	58.05	82.44	106.84	155.64	204.43	253.23	302.02
8	Kissimmee	(38.28)	35.08	59.09	83.09	107.09	155.10	203.10	251.11	299.11
9	City of Lakeland	35.00	35.01	57.01	79.02	101.03	145.04	189.05	233.06	277.08
10	City of New Smyrna Beach	15.75	28.61	51.18	73.74	96.30	141.43	186.55	231.68	276.80
11	City of Ocala	14.00	46.19	72.39	98.58	124.77	177.16	229.54	281.93	334.31
12	Orlando Utilities Commission	32.02	40.30	65.84	91.39	116.93	168.02	219.11	270.20	321.29
13	City of Tallahassee	28.08	32.66	54.39	76.12	97.85	141.31	184.77	228.23	271.69
	Florida Cooperatives									
14	Sumter Electric Cooperative	(20.70)	56.80	80.42	104.05	127.67	174.92	222.17	269.42	316.67
15	Clay Electric Cooperative	17.40	47.68	72.35	97.03	121.70	171.05	220.40	269.75	319.10
	Investor-Owned Utilities: [2]									
16	Florida Power and Light	24.49	35.11	58.98	82.84	106.71	154.44	202.17	249.91	297.64
17	Gulf Power Company	30.70	58.79	90.81	122.83	154.86	218.90	282.95	346.99	411.04
18	Duke Energy	30.94	47.66	79.32	110.98	142.64	205.97	269.29	332.62	395.94
19	Tampa Electric Company	31.67	43.91	68.68	93.44	118.21	167.75	217.28	266.81	316.35

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include January 2021 fuel adjustments and franchise fees but do not include taxes.

[2] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the the Florida Public Service Commission (FPSC). Franchise fees of 6 percent are included for each of the IOU's listed.

Inter-Utility Comparison of Typical Monthly Electric Bills [1]

		General Service Demand Class								
			30 kW			150 kW			500 kW	
Ln.	T 1 1 1	6,000	12,000	18,000	30,000	60,000	90,000	100,000	200,000	300,000
No.	Utility	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh
1	City of Lake Worth Beach (Existing)	1,002	1,450	1,897	4,530	6,768	9,006	14,820	22,280	29,740
2	City of Lake Worth Beach (Proposed)	1,016	1,542	2,069	4,561	7,192	9,823	14,900	23,670	32,440
	Other Florida Municipalities:									
3	Fort Pierce Utilities Authority	719	1,196	1,673	3,439	5,822	8,206	11,370	19,316	27,262
4	Gainesville Regional Utilities	976	1,548	2,120	4,482	7,341	10,200	14,705	24,235	33,765
5	Jacksonville Electric Authority	737	1,137	1,537	3,345	5,345	7,345	10,952	17,619	24,286
6	Kissimmee	701	1,080	1,459	3,284	5,179	7,074	11,618	17,099	22,580
7	City of Lakeland	637	980	1,324	3,017	4,734	6,452	9,958	15,683	21,409
8	City of New Smyrna Beach	721	1,205	1,690	3,469	5,891	8,314	10,859	18,434	26,009
9	City of Ocala	700	1,140	1,579	3,301	5,498	7,695	11,522	18,634	25,746
10	Orlando Utilities Commission	683	1,029	1,374	3,265	4,993	6,720	10,796	16,554	22,312
11	City of Tallahassee	804	1,115	1,365	3,720	5,275	6,524	12,162	17,284	21,417
	<u>Florida Cooperatives</u>									
12	Sumter Electric Cooperative	680	1,099	1,518	3,069	5,163	7,257	10,038	17,018	23,998
	Investor-Owned Utilities: [2]									
13	Florida Power and Light	693	998	1,304	3,352	4,879	6,407	11,926	16,524	21,121
14	Gulf Power Company	767	1,261	1,754	3,638	6,105	8,573	14,461	20,620	26,779
15	Duke Energy	784	1,182	1,579	3,858	5,846	7,833	12,789	19,382	25,975
16	Tampa Electric Company	741	1,060	1,379	3,576	5,173	6,770	11,847	17,169	22,491

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include January 2021 fuel adjustments and franchise fees but do not include taxes.

[2] Amounts shown include the energy conservation, capacity, environmental and storm cost recovery charges where appropriate, as filed with the the Florida Public Service Commission (FPSC). Franchise fees of 6 percent are included for each of the IOU's listed.

GLOSSARY [1]

Administrative and general expenses: Expenses of an electric utility relating to the overall directions of its corporate offices and administrative affairs, as contrasted with expenses incurred for specialized functions. Examples include office salaries, office supplies, advertising, and other general expenses.

AMI: Advanced Metering Infrastructure is a term denoting electricity meters that measure and record usage data at a minimum, in hourly intervals, and provide usage data to both consumers and energy companies at least once daily.

Base rate: A fixed kilowatthour charge for electricity consumed that is independent of other charges and/or adjustments.

Bulk power transactions: The wholesale sale, purchase, and interchange of electricity among electric utilities. Bulk power transactions are used by electric utilities for many different aspects of electric utility operations, from maintaining load to reducing costs.

Capacity (purchased): The amount of energy and capacity available for purchase from outside the system.

Capacity charge: An element in a two-part pricing method used in capacity transactions (energy charge is the other element). The capacity charge, sometimes called Demand Charge, is assessed on the amount of capacity being purchased.

Capacity factor: The ratio of the electrical energy produced by a generating unit for the period of time considered to the electrical energy that could have been produced at continuous full power operation during the same period.

Capital cost: The cost of field development and plant construction and the equipment required for industry operations.

Class rate schedule: An electric rate schedule applicable to one or more specified classes of service, groups of businesses, or customer uses.

Classes of service: Customers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial, and other.

Coincidental demand: The sum of two or more demands that occur in the same time interval.

Coincidental peak load: The sum of two or more peak loads that occur in the same time interval.

Consumer charge: An amount charged periodically to a consumer for such utility costs as billing and meter reading, without regard to demand or energy consumption.

Cost of service: A ratemaking concept used for the design and development of rate schedules to ensure that the filed rate schedules recover only the cost of providing the electric service at issue. This concept attempts to correlate the utility's costs and revenue with the service provided to each of the various customer classes.

Demand charge: That portion of the consumer's bill for electric service based on the consumer's maximum electric capacity usage and calculated based on the billing demand charges under the applicable rate schedule.

Distribution system: The portion of the transmission and facilities of an electric system that is dedicated to delivering electric energy to an end-user.

Electric rate: The price set for a specified amount and type of electricity by class of service in an electric rate schedule or sales contract.

Electric rate schedule: A statement of the electric rate and the terms and conditions governing its application, including attendant contract terms and conditions that have been accepted by a regulatory body with appropriate oversight authority.

Electricity sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Energy charge: That portion of the charge for electric service based upon the electric energy (kWh) consumed or billed.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

FERC guidelines: A compilation of the Federal Energy Regulatory Commission's enabling statutes; procedural and program regulations; and orders, opinions, and decisions.

Fixed cost (expense): An expenditure or expense that does not vary with volume level of activity.

Fixed operating costs: Costs other than those associated with capital investment that do not vary with the operation, such as maintenance and payroll.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000watts) of power expended for 1 hour. One kWh is equivalent to 3,412 Btu.

Load diversity: The difference between the peak of coincident and noncoincident demands of two or more individual loads.

Load factor: The ratio of the average load to peak load during a specified time interval.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One thousand kilowatt-hours or 1million watt-hours.

Noncoincident demand: Sum of two or more demands on individual systems that do not occur in the same demand interval.

Noncoincidental peak load: The sum of two or more peak loads on individual systems that do not occur in the same time interval. Meaningful only when considering loads within a limited period of time, such as a day, week, month, a heating or cooling season, and usually for not more than 1 year.

O&M: Operation and Maintenance.

Peak demand: The maximum load during a specified period of time.

Purchased power: Power purchased or available for purchase from a source outside the system.

Rate schedule (electric): The rates, charges, and provisions under which service is supplied to the designated class of customers.

Ratemaking authority: A utility commission's legal authority to fix, modify, approve, or disapprove rates as determined by the powers given the commission by a State or Federal legislature.

Rates: The authorized charges per unit or level of consumption for a specified time period for any of the classes of utility services provided to a customer.

Time-of-day rate: The rate charged by an electric utility for service to various classes of customers. The rate reflects the different costs of providing the service at different times of the day.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horse power.

^[1] From U. S. Energy Information Administration Glossary https://www.eia.gov/tools/glossary/index.php?id=xyz.

RESOLUTION NO. 69-2021 OF THE CITY OF LAKE WORTH BEACH, FLORIDA, PROVIDING FOR RATES, FEES AND CHARGES, AND REGULATIONS FOR ALL ELECTRICITY SOLD BY THE CITY OF LAKE WORTH BEACH, FLORIDA FOR USE OF ELECTRIC LIGHT AND POWER SYSTEM; REPEALING ALL RESOLUTIONS IN CONFLICT HEREWITH; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE

WHEREAS, the City of Lake Worth Beach, Florida, is authorized and required to fix uniform and adequate rates for its service; and

WHEREAS, the rates set forth herein are just and equitable and serve a valid public purpose.

NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF THE CITY OF LAKE WORTH BEACH, FLORIDA as follows:

<u>Section 1.</u> <u>Definitions:</u> For the purpose of this resolution, the following terms, phrases, words, and their derivations shall have the meaning given herein. When not inconsistent with the context, words used in the present tense include the future, words in the plural in the present tense include the future, words in the plural in the singular include the plural.

- A: "Shall" is always mandatory and not merely directory.
- B. "Net Metering Accounts" are those customer accounts with the City's Electric Utility where the customer has applied to the City's Electric Utility; installed a Customer-Owned Renewable Generation System (as defined in the Net Metering Program Rules and Regulations); executed a City Interconnection Agreement; has been approved by the Electric Utility for interconnection with the City's electric system; and, remains in compliance with the City's Net Metering Program. All rates applicable to Net Metering Accounts are governed by Resolution No. 45-2019 (as may be amended from time to time).
- C. "Purchased Power Cost Adjustment (PCA)" The cost of electricity is affected by the price of fuel and the purchase price of power supply. The PCA is an adjustment charge caused by an increased or decreased in the cost to purchase or supply power to customers. It is shown on the customer's bill as a credit or a surcharge to the price per kilowatt-hour. The customer's utility bill may have a credit, as the cost of power supply decreases, or it may have a surcharge when the costs increase.

<u>Section 2.</u> The following schedules shall be the rates charged and the regulations imposed by the City of Lake Worth Beach, Florida, on all electric power sold by the City of Lake Worth Beach, Florida for lighting, heating and power purposes, to wit:

A. Regular Residential Electric (Schedule R-S)

- 1. Designation: Regular Residential Electric
- 2. Applicable: For domestic electric purposes in private residences and individually metered apartments. Residential rates shall apply for electric energy used in commonly-owned facilities in condominiums and cooperative apartment buildings, subject to the following criteria:
 - a. 100% of the energy is used exclusively for the co-owner's benefit.
 - b. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
 - c. Each point of delivery will be separately metered and billed.
 - d. A responsible legal entity is established as the customer to whom the City of Lake Worth Beach can render its bills for said service.
 - e. A cooperative or condominium requesting residential rates shall apply for the rate and establish the above criteria.
- 3. Limitations: Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder. Recognized rooming houses, tourist homes and dwellings accommodating more than four paying guests supplied through a single meter will not be served under this schedule.
- 4. Service: Single phase, 60 cycles at available standard voltage. Three phase service may be furnished but only under special arrangements and at the option of the City of Lake Worth Beach.
- 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill, which will be applied to each electric account receiving a bill. \$10.53 per month.
 - b. Energy Charge per kWh
- 6. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 7. Purchased Power Cost Adjustment Charge:
- A. Purchased Power Cost Adjustment Charge will be applied as set forth below.

	First 1,000 KWH's	Excess
Base Energy-kWh	0.05148	0.0788
Fuel	0.03578	0.0390
Capacity	0.01020	0.0102
Total	0.09746	0.1280

- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
- 9. Minimum Bill: The minimum bill for electric use shall be charged at \$31.40 per month.

- B. Regular Commercial Service (Schedule C-S)
 - 1. Designation: Regular Commercial Electric.
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each electric account receiving a bill. \$16.66 per month.
 - b. Charge per kWh.

	All kWhs	
Base Energy - kWh	0.0704	
Fuel	0.03578	
Capacity	acity 0.0102	
Total	0.11638	

- 6. The rates listed above includes all administrative charges from the City of Lake Worth Beach.
- 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
- 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month.

C. Demand Commercial Service (Schedule CD-S)

- 1. Designation: Demand Commercial Electric
- 2. Applicable: For customers who qualifies for service under Schedule C-S above and has a peak demand of 18 kW or greater for three (3) consecutive months:
- 3. Limitations: Auxiliary or stand-by service or resale not permitted hereunder.
- 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
- 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill, which will be applied to each electric account receiving a bill. \$120.00 per month.
 - b. Charge per KWH

	All kWhs	Demand - KW
Base Energy-kWh	0.0355	\$ 14.48
Fuel	0.0289	
Capacity	0.0102	
Total	0.0746	\$14.48

- 6. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 7. Billing Demand: The maximum 15 minute measured demand in the month, subject to power factor adjustment.
- 8. Power Factor Adjustment: When demand is measured with a kW meter and customer's power factor in any month is below 95% the measured demand may be adjusted to 95% power factor.
- 9. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 10. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
- 11. Minimum Bill: The minimum bill for electric use shall be \$140.00 per month.
- D. Regular Time of Use Commercial Service (Schedule CT-S)
 - 1. Designation: Time of Use Commercial Service
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each electric account receiving a bill. \$28.97 per month.
 - b. Energy Charge:
 - i. Off Peak \$0.0846 per kWh
 - ii. On Peak \$0.2651 per kWh
 - iii. Determination of Off-Peak Period: October May: The off-peak period is defined as the hours between 1:00 p.m. and 6:00 a.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: New Year's Day, Memorial Day, Thanksgiving Day, and Christmas Day. June – September: The off-peak period is defined as the hours between 7:00 p.m. and 2:00 p.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: Independence Day and Labor Day. All other hours are considered on peak hours.

- 6. Term of Contract: One year and thereafter until terminated at the option of either party by the giving of not less than thirty (30) days advance written notice of the effective date of termination.
- 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
- 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month.
- E. Time of Use Demand Commercial Service (Schedule CDT-S)
 - 1. Designation: Time of Use Demand Commercial Service
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard 416 voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each Electric account receiving a bill. \$130.32 per month.
 - b. Energy Charge:
 - i. Off Peak\$0.0627 per kWh
 - ii. On Peak \$0.2432 per kWh
 - iii. Demand Charge: \$7.39 per kW.
 - iv. Billing Demand: The maximum 15 minute measured demand in the month, subject to power factor adjustment.
 - v. Power Factor Adjustment: When demand is measured with a kW 438 meter and customer's power factor in any month is below 95% the measured demand may be adjusted to 95% power factor.
 - vi. Determination of Off-Peak Period: October May: The off-peak period is defined as the hours between 1:00 p.m. and 6:00 a.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: New Year's Day, Memorial Day, Thanksgiving Day, and Christmas Day.
 - vii. June September: The off-peak period is defined as the hours between 7:00 p.m. and 2:00 p.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered offpeak: Independence Day and Labor Day. All other hours are considered on peak hours.
 - 6. Term of Contract: One year and thereafter until terminated at the option of either party by the giving of not less than thirty (30) days advance written notice of the effective date of termination.
 - 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth below.
 - 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
 - 9. Minimum Bill: The minimum bill for electric use shall be \$140.00 per month.

- F. Electric Vehicle Charging Level II (Schedule EV2-S)
 - 1. Designation: Electric Vehicle Charging Level II
 - 2. Applicable: For City owned public electric vehicle Level II charging stations.
 - a. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
 - b. Each point of delivery will be separately metered and billed.
 - c. Limitations: Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.
 - 3. Energy Charge per kWh

> ₽	All KWH's
Base Energy-kWh	0.05148
Fuel	0.03578
Capacity	0.0102
Total	0.09746

- 4. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 5. Purchased Power Cost Adjustment Charge:

Sender Series of PT

- A. Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 6. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.
- G. Private Area Lighting (Schedule L-P)
 - 1. Designation: Private Area Lighting
 - 2. Applicable: For year-round outdoor security lighting of yards, driveways, walkways, parking lots, parks, and other areas, under the following conditions:
 - a. Lights to be served hereunder shall be at locations that are easily and economically accessible to the City of Lake Worth Beach equipment and personnel for construction and maintenance.
 - b. Original location of lighting fixtures shall be by mutual agreement and shall not be located so as to create a public nuisance.
 - c. Any relocation requested by customer after installation shall be made at customer's expense. All new lighting units provided under this Schedule shall be the high pressure sodium vapor (conservation lighting) type.
 - 3. Limitations:
 - a. Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.
 - b. The City of Lake Worth Beach, while exercising reasonable diligence at all times to furnish service hereunder, does not guarantee continuous lighting and will not be liable for damages for any interruption, deficiency or failure of service and reserves the right to interrupt service at any time for necessary repairs to lines or equipment.

- 4. Service: Service includes lamp renewals, energy from approximately dusk each day until approximately dawn the following day and maintenance of facilities. The City of Lake Worth Beach will replace all burned out lamps and will maintain its facilities during regular daytime working hours as soon as practicable following notification by the customer that such work is necessary. The City of Lake Worth Beach shall be permitted to enter the customer's premises at all reasonable times for the purpose of inspecting, maintaining, installing and removing any or all of its equipment and facilities. Single phase, 60 cycles at available standard voltage. Three phase service may be furnished but only under special arrangements and at the option of the City of Lake Worth Beach.
- 5. Term of Service: Not less than one (1) year.
- 6. Monthly Rates: A fixed monthly charge based on the number of units installed shall be charged based on the following schedule.
 - a. Standard Lighting:

Description Unit Cost per Month 175 Watt (7,000 Lumen) \$11.63

Existing Pole1,000 Watt (55,000 Lumen) Mercury-Vapor Street Light Unit on Existing Pole Conservation Lighting: Description 100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$35.8 unit cost per month \$9.4250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$13.5 \$13.5360 Watt (27,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$16.2 unit cost per \$16.2360 Watt High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for Light\$16.3 unit cost per month \$2.5Concrete Pole and Span of Overhead Conductors or Pole used only for Light\$3.8 \$3.8Underground Conductors up to 150 feet\$1.2		
400 Watt (20,500 Lumen) Mercury-Vapor Street Light Unit on Existing Pole\$18.21,000 Watt (55,000 Lumen) Mercury-Vapor Street Light Unit on Existing Pole Conservation Lighting: Description 100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$35.8 unit cost per month \$9.4250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$13.5360 Watt High Pressure Sodium Vapor Street Light Unit on Existing Pole\$16.2400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for Light\$16.3Concrete Pole and Span of Overhead Conductors or Pole used only for Light\$3.8Underground Conductors up to 150 feet\$1.2	Mercury-Vapor Existing Pole Street Light Unit on	
1,000 Watt (55,000 Lumen) Mercury-Vapor Street Light Unit on Existing Pole Conservation Lighting: Description 100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$35.8 unit cost per month \$9.4250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole\$13.5360 Watt High Pressure Sodium Vapor Street Light Unit on Existing Pole\$16.2400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for Light\$16.3 unit cost per month \$2.5Concrete Pole and Span of Overhead Conductors or Pole used only for Light\$3.8 Underground Conductors up to 150 feet\$1.2	400 Watt (20,500 Lumen) Mercury-Vapor Street Light Unit on	\$18.24
Light Unit on Existing Pole360 Watt High Pressure Sodium Vapor Street Light Unit on Existing Pole400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for LightConcrete Pole and Span of Overhead Conductors or Pole used only for LightUnderground Conductors up to 150 feet	1,000 Watt (55,000 Lumen) Mercury-Vapor Street Light Unit on Existing Pole Conservation Lighting: Description 100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole	\$35.89 unit cost per month \$9.46
Existing Pole400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for Light\$16.3 unit cost per month \$2.5Concrete Pole and Span of Overhead Conductors or Pole used only for Light\$3.8 \$16.3Underground Conductors up to 150 feet\$1.2		\$13.58
400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for Light\$16.3 unit cost per month \$2.5Concrete Pole and Span of Overhead Conductors or Pole used only for Light\$3.8 \$3.8Underground Conductors up to 150 feet\$1.2	-	\$16.24
Concrete Pole and Span of Overhead Conductors or Pole used\$3.8only for LightUnderground Conductors up to 150 feet\$1.2	400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street Light Unit on existing pole Appurtenances: Description Wood Pole and span of Overhead Conductors or Pole used only for	\$16.33 unit cost per month \$2.55
Underground Conductors up to 150 feet \$1.2	Concrete Pole and Span of Overhead Conductors or Pole used	\$3.82
		\$1.27
		\$2.55

- 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below
- H. Street Lighting (Schedule L-S)
 - 1. Designation: Street Lighting
 - 2. Applicable: For lighting of public right-of ways. All new lighting units provided under this Schedule shall be the high pressure sodium vapor (conversation) type.
 - 3. Limitations:
 - a. Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.

- b. The City of Lake Worth Beach, while exercising reasonable diligence at all times to furnish service hereunder, does not guarantee continuous lighting and will not be liable for damages for any interruption, deficiency or failure of service and reserves the right to interrupt service at any time for necessary repairs to lines or equipment.
- c. Should the City of Lake Worth Beach be required by the customer to replace the street light(s) with a light (or lights) of another type or rating, then the customer may be required to pay the estimated labor, vehicle use and other direct costs involved in replacing the fixtures.
- 4. Service: Service includes lamp renewals, energy from approximately dusk each day until dawn the following day and maintenance of City of Lake Worth Beach owned street lighting systems.
- 5. Term of Service: For not less than ten (10) years for City of Lake Worth Beach facilities or customer will be required to pay depreciated cost of installed facilities plus cost of removal.
- 6. Monthly Rates:
 - a. A fixed monthly charge based on the number of units installed shall be charged based on the following schedule.
 - b. Conservation Lighting:

Description Unit Cost per Month

100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street	
Light Unit on Existing Pole	\$7.48
150 Watt (27,500 Lumen) High Pressure Sodium Vapor Street	\$8.89
Light Unit on Existing Pole	
250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street	\$11.68
Light Unit on Existing Pole	
360 Watt High Pressure Sodium Vapor Street Light Unit on	
Existing Pole	\$14.47
400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street	
Light Unit on existing pole	\$16.28

c. Appurtenances:

Description Unit Cost per Month

Wood Pole and span of Overhead Conductors \$2.55 or Pole used only for Light Concrete Pole and Span of Overhead Conductors \$3.82 or Pole used only for Light Underground Conductors up to 150 feet \$1.27

Underground Conductors from 150 feet to 300 feet \$2.55

- 7. Purchased Power Cost Adjustment Charge:
- A. Purchased Power Cost Adjustment Charge will be applied as set forth below.
- 8. Outside City Limits Surcharge:
 - A. Surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth below.

Section 3. Purchased Power Cost Adjustment (PCA): A Purchased Power Cost Adjustment Charge (PCA) shall be established each month for energy sales during that month as follows:

where:

A = The actual purchased power costs for the month and includes power supply from all sources including St. Lucie, Stanton, Purchase Power and generating fuel & transmission B = Purchased Power cost paid in customer rates for month, which is equal to (PCA from last month plus base power costs) divided by 1 plus system loss estimate (7 percent) times MWh's of purchased power (Purchased power includes power supply & transmission from all resources)

C = Projected power supply cost for up to next twelve months

D = Projected power supply costs recovered in base rates remainder of year, which is equal to the projected purchased power in MWh's times base rate divided by 1 plus system losses (estimated at 7 percent)

E = The projected sales over remainder of year equal to projected MWh's of purchased power divided by 1 plus system losses (estimated at 7 percent)

F = The contribution factor to the General Fund of the City.

The base power cost included in the base rates is \$81.80 per MWh.

The purchased power cost adjustment charge will be reconciled periodically but at a minimum of once a year and trued up between estimated billing units defined as MWh's of purchased power divided by 1 plus system losses and actual billing units.

The calculation of the purchased power cost adjustment will be lagging by two months. For example, the power supply for the month of September will be charged to customers beginning in November that year.

<u>Section 4.</u> <u>Surcharge For Service Outside The Municipal Limits</u>: With respect to any residents, premises and/or users outside the corporate limits of the City of Lake Worth Beach, Florida, where such residents, premises and/or users now or hereafter have or use electrical utility service with the electrical system of the City of Lake Worth Beach, they shall be charged a rate for the electricity they use equal to the charge established for service to the residents, premises and/or users within the City of Lake Worth Beach, Florida, plus any applicable taxes or fees that are required in the Code of Ordinances or Resolutions of the specific jurisdiction in which those accounts reside. Such taxes and fees are collected by the City of Lake Worth Beach and remitted directly to the appropriate County or Municipal entity.</u>

<u>Section 5</u>. Nothing in this resolution shall prohibit the City of Lake Worth Beach from entering into an agreement to provide electricity and electric utility services to or within any unit of government or governmental subdivision with terms and conditions other than contained herein.

<u>Section 6.</u> All resolutions or parts of resolutions in conflict herewith are expressly repealed.

<u>Section 7.</u> If any provision of this resolution or the application thereof to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications

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of the resolution, which can be given effect without the invalid provision or application, and to this end the provisions of this resolution are declared severable.

<u>Section 8.</u> This resolution shall be in effect for billings issued on or after October 1, 2021.

The passage of this resolution was moved by Commissioner McVoy, seconded by Commissioner Stokes and upon being put to a vote, the vote was as follows:

Mayor Betty Resch	AYE
Vice Mayor Herman Robinson	AYE
Commissioner Sarah Malega	AYE
Commissioner Christopher McVoy	AYE
Commissioner Kimberly Stokes	AYE

The Mayor thereupon declared this resolution duly passed and enacted on the 27th day of September 2021.

LAKE WORTH BEACH CITY COMMISSION

By: Betty Mavor lesch.

ATTE

Melissa Ann Coyne, City Clerk



RESOLUTION NO. xx-2021 OF THE CITY OF LAKE WORTH BEACH, FLORIDA, PROVIDING FOR RATES, FEES AND CHARGES, AND REGULATIONS FOR ALL ELECTRICITY SOLD BY THE CITY OF LAKE WORTH BEACH, FLORIDA FOR USE OF ELECTRIC LIGHT AND POWER SYSTEM; REPEALING ALL RESOLUTIONS IN CONFLICT HEREWITH; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE

WHEREAS, the City of Lake Worth Beach, Florida, is authorized and required to fix uniform and adequate rates for its service; and

WHEREAS, the rates set forth herein are just and equitable and serve a valid public purpose.

NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF THE CITY OF LAKE WORTH BEACH, FLORIDA as follows:

<u>Section 1.</u> <u>Definitions:</u> For the purpose of this resolution, the following terms, phrases, words, and their derivations shall have the meaning given herein. When not inconsistent with the context, words used in the present tense include the future, words in the plural in the present tense include the future, words in the plural include the singular, and words in the singular include the plural.

- A. "Shall" is always mandatory and not merely directory.
- B. "Net Metering Accounts" are those customer accounts with the City's Electric Utility where the customer has applied to the City's Electric Utility; installed a Customer-Owned Renewable Generation System (as defined in the Net Metering Program Rules and Regulations); executed a City Interconnection Agreement; has been approved by the Electric Utility for interconnection with the City's electric system; and, remains in compliance with the City's Net Metering Program. All rates applicable to Net Metering Accounts are governed by Resolution No. 45-2019 (as may be amended from time to time).
- C. "Purchased Power Cost Adjustment (PCA)" The cost of electricity is affected by the price of fuel and the purchase price of power supply. The PCA is an adjustment charge caused by an increased or decreased in the cost to purchase or supply power to customers. It is shown on the customer's bill as a credit or a surcharge to the price per kilowatt-hour. The customer's utility bill may have a credit, as the cost of power supply decreases, or it may have a surcharge when the costs increase.

<u>Section 2.</u> The following schedules shall be the rates charged and the regulations imposed by the City of Lake Worth Beach, Florida, on all electric power sold by the City of Lake Worth Beach, Florida for lighting, heating and power purposes, to wit:

- A. Regular Residential Electric (Schedule R-S)
 - 1. Designation: Regular Residential Electric
 - 2. Applicable: For domestic electric purposes in private residences and individually metered apartments. Residential rates shall apply for electric energy used in commonly-owned facilities in condominiums and cooperative apartment buildings, subject to the following criteria:
 - a. 100% of the energy is used exclusively for the co-owner's benefit.
 - b. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
 - c. Each point of delivery will be separately metered and billed.
 - d. A responsible legal entity is established as the customer to whom the City of Lake Worth Beach can render its bills for said service.
 - e. A cooperative or condominium requesting residential rates shall apply for the rate and establish the above criteria.
 - 3. Limitations: Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder. Recognized rooming houses, tourist homes and dwellings accommodating more than four paying guests supplied through a single meter will not be served under this schedule.
 - 4. Service: Single phase, 60 cycles at available standard voltage. Three phase service may be furnished but only under special arrangements and at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill, which will be applied to each electric account receiving a bill. \$TBD per month.
 - b. Energy Charge per kWh

	First 1,000 KWH's	Excess
Base Energy	TBD	TBD
Power Cost Adjustment	TBD	TBD
Total	TBD	TBD

- 6. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 7. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- 9. Minimum Bill: The minimum bill for electric use shall be charged at \$35.00 per month.

- B. Regular Commercial Service (Schedule C-S)
 - 1. Designation: Regular Commercial Electric.
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each electric account receiving a bill. \$TBD per month.
 - b. Energy Charge per kWh.

	All kWhs
Base Energy	TBD
Power Cost Adjustment	TBD
Total	TBD

- 6. The rates listed above includes all administrative charges from the City of Lake Worth Beach.
- 7. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month for single phase service and \$100.00 per month for poly phase service.
- C. Demand Commercial Service (Schedule CD-S)
 - 1. Designation: Demand Commercial Electric
 - 2. Applicable: For customers who qualifies for service under Schedule C-S above and has a peak demand of 25 kW or greater for three (3) consecutive months:
 - 3. Limitations: Auxiliary or stand-by service or resale not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill, which will be applied to each electric account receiving a bill. \$TBD per month.
 - b. Energy Charge per KWH

	All kWhs	Demand - KW
Base Energy	TBD	\$TBD
Power Cost Adjustment	TBD	
Total	TBD	\$TBD

- 6. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 7. Billing Demand: The maximum 15 minute measured demand in the month, subject to power factor adjustment.
- 8. Power Factor Adjustment: When demand is measured with a kW meter and customer's power factor in any month is below 95% the measured demand may be adjusted to 95% power factor.
- 9. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 10. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- 11. Minimum Bill: The minimum bill for electric use shall be \$250.00 per month.
- D. Regular Time of Use Commercial Service (Schedule CT-S)
 - 1. Designation: Time of Use Commercial Service
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each electric account receiving a bill. \$30.00 per month.
 - b. Energy Charge:
 - i. Off Peak \$0.0840 per kWh
 - ii. On Peak \$0.2600 per kWh
 - iii. Determination of Off-Peak Period: October May: The off-peak period is defined as the hours between 1:00 p.m. and 6:00 a.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: New Year's Day, Memorial Day, Thanksgiving Day, and Christmas Day. June – September: The off-peak period is defined as the hours between 7:00 p.m. and 2:00 p.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: Independence Day and Labor Day. All other hours are considered on peak hours.

- 6. Term of Contract: One year and thereafter until terminated at the option of either party by the giving of not less than thirty (30) days advance written notice of the effective date of termination.
- 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month for single phase service and \$100.00 per month for poly phase service.
- E. Time of Use Demand Commercial Service (Schedule CDT-S)
 - 1. Designation: Time of Use Demand Commercial Service
 - 2. Applicable: For commercial, industrial, and governmental use within the territory served by the Electric Distribution System of the City of Lake Worth Beach, as available and at the option of the City.
 - 3. Limitations: For consumers who own renewable energy facilities (such as wind, solar power or home fuel cells), resale of the electric energy is not permitted hereunder.
 - 4. Service: Single or three phase, 60 cycles and at any available standard 416 voltage, at the option of the City of Lake Worth Beach.
 - 5. Monthly Rates:
 - a. Customer Charge: A fixed charge based on the cost of preparing and delivering a bill which will be applied to each Electric account receiving a bill. \$140.00 per month.
 - b. Energy Charge:
 - i. Off Peak \$0.0620 per kWh
 - ii. On Peak \$0.2400 per kWh
 - iii. Demand Charge: \$7.00 per kW.
 - iv. Billing Demand: The maximum 15 minute measured demand in the month, subject to power factor adjustment.
 - v. Power Factor Adjustment: When demand is measured with a kW 438 meter and customer's power factor in any month is below 95% the measured demand may be adjusted to 95% power factor.
 - vi. Determination of Off-Peak Period: October May: The off-peak period is defined as the hours between 1:00 p.m. and 6:00 a.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered off-peak: New Year's Day, Memorial Day, Thanksgiving Day, and Christmas Day.
 - vii. June September: The off-peak period is defined as the hours between 7:00 p.m. and 2:00 p.m., Monday through Friday and all day Saturday and Sunday. In addition, the following holidays will also be considered offpeak: Independence Day and Labor Day. All other hours are considered on peak hours.
 - 6. Term of Contract: One year and thereafter until terminated at the option of either party by the giving of not less than thirty (30) days advance written notice of the effective date of termination.
 - 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.

- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- 9. Minimum Bill: The minimum bill for electric use shall be \$140.00 per month.
- F. Electric Vehicle Charging Level II (Schedule EV2-S)
 - 1. Designation: Electric Vehicle Charging Level II
 - 2. Applicable: For City owned public electric vehicle Level II charging stations.
 - a. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
 - b. Each point of delivery will be separately metered and billed.
 - c. Limitations: Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.
 - 3. Energy Charge per kWh

	All KWH's
Base Energy	TBD
Power Cost Adjustment	TBD
Total	TBD

- 4. The rates listed above include all administrative charges from the City of Lake Worth Beach.
- 5. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 6. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.
- G. Private Area Lighting (Schedule L-P)
 - 1. Designation: Private Area Lighting
 - 2. Applicable: For year-round outdoor security lighting of yards, driveways, walkways, parking lots, parks, and other areas, under the following conditions:
 - a. Lights to be served hereunder shall be at locations that are easily and economically accessible to the City of Lake Worth Beach equipment and personnel for construction and maintenance.
 - b. Original location of lighting fixtures shall be by mutual agreement and shall not be located so as to create a public nuisance.
 - c. Any relocation requested by customer after installation shall be made at customer's expense. All new lighting units provided under this Schedule shall be the high pressure sodium vapor (conservation lighting) type.
 - 3. Limitations:
 - a. Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.
 - b. The City of Lake Worth Beach, while exercising reasonable diligence at all times to furnish service hereunder, does not guarantee continuous lighting and will not be liable for damages for any interruption, deficiency or failure of service and reserves the right to interrupt service at any time for necessary repairs to lines or equipment.

- 4. Service: Service includes lamp renewals, energy from approximately dusk each day until approximately dawn the following day and maintenance of facilities. The City of Lake Worth Beach will replace all burned out lamps and will maintain its facilities during regular daytime working hours as soon as practicable following notification by the customer that such work is necessary. The City of Lake Worth Beach shall be permitted to enter the customer's premises at all reasonable times for the purpose of inspecting, maintaining, installing and removing any or all of its equipment and facilities. Single phase, 60 cycles at available standard voltage. Three phase service may be furnished but only under special arrangements and at the option of the City of Lake Worth Beach.
- 5. Term of Service: Not less than one (1) year.
- 6. Monthly Rates: A fixed monthly charge based on the number of units installed shall be charged based on the following schedule.
 - a. Standard Lighting:

Description Unit Cost per Month

175 Watt (7,000 Lumen) Mercury –Vapor Street Light Unit on	\$12.21
Existing Pole	
400 Watt (20,500 Lumen) Mercury-Vapor Street Light Unit on	\$19.15
Existing Pole	
1,000 Watt (55,000 Lumen) Mercury-Vapor Street Light Unit on	\$37.68
Existing Pole	
100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street	\$9.93
Light Unit on Existing Pole	
250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street	\$14.26
Light Unit on Existing Pole	
360 Watt High Pressure Sodium Vapor Street Light Unit on	\$17.05
Existing Pole	
400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street	\$17.15
Light Unit on existing pole	
48 Watt LED Street Light Unit on Existing Pole	\$9.00
70 Watt LED Street Light Unit on Existing Pole	\$9.70
80 Watt LED Street Light Unit on Existing Pole	\$9.70
101 Watt LED Street Light Unit on Existing Pole	\$16.30
110 Watt LED Street Light Unit on Existing Pole	\$16.30
133 Watt LED Street Light Unit on Existing Pole	\$16.30
150 Watt LED Street Light Unit on Existing Pole	\$16.30
Wood Pole and span of Overhead Conductors or Pole used	\$10.00
only for Light	
Concrete Pole and Span of Overhead Conductors or Pole used	\$15.00
only for Light	
Underground Conductors up to 150 feet	\$1.33
Underground Conductors from 150 feet to 300 feet	\$2.68

- 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.

- H. Street Lighting (Schedule L-S)
 - 1. Designation: Street Lighting
 - 2. Applicable: For lighting of public right-of ways.
 - 3. Limitations:
 - a. Auxiliary and stand-by generation or resale of the electric energy not permitted hereunder.
 - b. The City of Lake Worth Beach, while exercising reasonable diligence at all times to furnish service hereunder, does not guarantee continuous lighting and will not be liable for damages for any interruption, deficiency or failure of service and reserves the right to interrupt service at any time for necessary repairs to lines or equipment.
 - c. Should the City of Lake Worth Beach be required by the customer to replace the street light(s) with a light (or lights) of another type or rating, then the customer may be required to pay the estimated labor, vehicle use and other direct costs involved in replacing the fixtures.
 - 4. Service: Service includes lamp renewals, energy from approximately dusk each day until dawn the following day and maintenance of City of Lake Worth Beach owned street lighting systems.
 - 5. Term of Service: For not less than ten (10) years for City of Lake Worth Beach facilities or customer will be required to pay depreciated cost of installed facilities plus cost of removal.
 - 6. Monthly Rates:
 - a. A fixed monthly charge based on the number of units installed shall be charged based on the following schedule.
 - b. Conservation Lighting:

Description Unit Cost per Month

100 Watt (9,500 Lumen) High Pressure Sodium Vapor Street	
Light Unit on Existing Pole	\$7.85
150 Watt (27,500 Lumen) High Pressure Sodium Vapor Street	\$9.33
Light Unit on Existing Pole	
250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street	\$12.26
Light Unit on Existing Pole	
360 Watt High Pressure Sodium Vapor Street Light Unit on	
Existing Pole	\$15.19
400 Watt (50,000 Lumen) High Pressure Sodium Vapor Street	
Light Unit on existing pole	\$17.09
48 Watt LED Street Light Unit on Existing Pole	\$9.00
70 Watt LED Street Light Unit on Existing Pole	\$9.70
80 Watt LED Street Light Unit on Existing Pole	\$9.70
101 Watt LED Street Light Unit on Existing Pole	\$16.30
110 Watt LED Street Light Unit on Existing Pole	\$16.30
133 Watt LED Street Light Unit on Existing Pole	\$16.30
150 Watt LED Street Light Unit on Existing Pole	\$16.30

c. Appurtenances:

Description Unit Cost per Month

Wood Pole and span of Overhead Conductors \$10.00 or Pole used only for Light Concrete Pole and Span of Overhead Conductors \$15.00 or Pole used only for Light Underground Conductors up to 150 feet \$1.33 Underground Conductors from 150 feet to 300 feet \$2.68

- 7. Purchased Power Cost Adjustment Charge:
 - A. Purchased Power Cost Adjustment Charge will be applied as set forth in Section 3 below.
- 8. Outside City Limits Surcharge:
 - A. Surcharge for electric use outside the City of Lake Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4 below.

<u>Section 3.</u> <u>Purchased Power Cost Adjustment (PCA):</u> A Purchased Power Cost Adjustment Charge (PCA) shall be established for a projected 12 month period for energy sales during that period as follows:

$$PCA = (A + B + C) / D$$

where:

A = The projected purchased power costs for the projected 12 month period comprised of costs such as the FMPA Stanton 1 variable costs, the FMPA Municipal Solar Project power costs, supplemental purchased power capacity, energy and directly related costs, Lake Worth Beach electric utility power generating fuel, and transmission costs

B = A true-up amount representing the over or under recovery of purchased power costs from the prior period

C = The amount transferred to or from the Rate Stabilization Fund for the projected period

D = The projected total retail sales in MWh for the projected 12 month period

The purchased power cost adjustment charge will be reconciled periodically at a minimum of once a year and trued up between estimated costs and billing units and actual costs and billing units.

<u>Section 4.</u> <u>Surcharge For Service Outside The Municipal Limits:</u> With respect to any residents, premises and/or users outside the corporate limits of the City of Lake Worth Beach, Florida, where such residents, premises and/or users now or hereafter have or use electrical utility service with the electrical system of the City of Lake Worth Beach, they shall be charged a rate for the electricity they use equal to the charge established for service to the residents, premises and/or users within the City of Lake Worth Beach, Florida, plus any applicable taxes or fees that are required in the Code of Ordinances or Resolutions of the specific jurisdiction in which those accounts reside. Such taxes and fees are collected by the City of Lake Worth Beach and remitted directly to the appropriate County or Municipal entity.</u>

Pg. 10, Reso. xx-2021

<u>Section 5</u>. Nothing in this resolution shall prohibit the City of Lake Worth Beach from entering into an agreement to provide electricity and electric utility services to or within any unit of government or governmental subdivision with terms and conditions other than contained herein.

<u>Section 6.</u> All resolutions or parts of resolutions in conflict herewith are expressly repealed.

<u>Section 7.</u> If any provision of this resolution or the application thereof to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications of the resolution, which can be given effect without the invalid provision or application, and to this end the provisions of this resolution are declared severable.

Section 8. This resolution shall be in effect for billings issued on or after April 1, 2022.

The passage of this resolution was moved by Commissioner McVoy, seconded by Commissioner Stokes and upon being put to a vote, the vote was as follows:

Mayor Betty Resch	AYE
Vice Mayor Herman Robinson	AYE
Commissioner Sarah Malega	AYE
Commissioner Christopher McVoy	AYE
Commissioner Kimberly Stokes	AYE

The Mayor thereupon declared this resolution duly passed and enacted on the 30th day of November 2021.

LAKE WORTH BEACH CITY COMMISSION

By: _

Betty Resch, Mayor

ATTEST:

Melissa Ann Coyne, City Clerk

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Eighth Amendment to the Professional Services Agreement with Vantage Services Consulting LLC

SUMMARY:

The Eighth Amendment to the Professional Services Agreement with Vantage Energy Consulting LLC extends the term of the Agreement for one (1) year, includes additional services to be provided, and a rate increase to be paid by the City for the consulting services.

BACKGROUND AND JUSTIFICATION:

The Electric Utility Department entered into an agreement with Vantage Energy Consulting LLC ("Vantage") to provide consulting services related to the purchase of electric power, development of electric supply cost models to support cost tracking, budgeting and fiscal modeling, auditing of energy supplier and transmission provider bills, nomination of electric energy and capacity purchases, assistance with natural gas pipeline capacity sales, development of electric reliability reports, and analysis of natural gas supply pipeline options.

The purpose of this eighth amendment is to renew the term for one (1) year and set forth the additional services to be provided by Vantage over the next year. Vantage has submitted a proposal for services along with a proposed rate increase. The Electric Utility has reviewed the consultant's proposal and concluded the rate increase is reasonable for the said consulting services. The Eighth Amendment includes a not to exceed amount of \$197,760.00.

MOTION:

Move to approve/disapprove Eighth Amendment to Professional Services Agreement with Vantage Services Consulting LLC

ATTACHMENT(S):

Fiscal Impact Analysis Eighth Amendment

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	0 \$197,760 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Net Fiscal Impact	\$197,760	0	0	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

B. Recommended Sources of Funds/Summary of Fiscal Impact:

Account Number	Account	Project	FY22	Current	Budget	Agenda	Balance
	Description	Number	Budget	Balance	Transfer	Expenditure	
401-6010-531.31-90	Prof Serv/Other	N/A	\$406,193	\$359,160	\$0	\$197,760	\$161,400

EIGHTH AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT

This Eighth Amendment to the Professional Services Agreement ("Eight Amendment") is made as of the ______, by and between the **City of Lake Worth Beach**, Florida, a municipal corporation of the State of Florida ("CITY") and **Vantage Energy Consulting**, **LLC**, a Florida limited liability company ("CONSULTANT").

WHEREAS, the CONSULTANT has a distinct field of expertise in Florida and beyond in regard to auditing electric services and providing variety of consulting services related to electric utility rate and regulatory issues, asset management, and procurement; and

WHEREAS, the CITY and CONSULTANT entered a Professional Services Agreement based upon the CONSULTANT's distinct field of expertise on November 8, 2017 (the "Agreement"); and

WHEREAS, the Agreement has been amended seven times to extend the term and broaden the scope of services which CONSULTANT was providing to the CITY; and

WHEREAS, the Fourth, Fifth, Sixth, and Seventh Amendment included specific tasks that CONSULTANT provided in the past year and the CITY wishes to extend the same services for an additional year; and

WHEREAS, the CONSULTANT has submitted new rates for the services sought by the CITY; and

WHEREAS, the purpose of this Eighth Amendment is to renew the term of the Agreement for one (1) year and set forth certain terms and conditions for the provision of additional services by the CONSULTANT to the CITY; and

WHEREAS, the CITY's Electric Utility has reviewed the CONSULTANT's rates and concluded the rates are reasonable; and

WHEREAS, under section 2-112(c)(6) of the CITY's procurement code, the City Commission is authorized to approve an agreement with a consultant with a distinct field of expertise without competitive selection; and

WHEREAS, the CITY finds approving this Eighth Amendment with the CONSULTANT serves a valid public purpose.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the sufficiency of which is hereby acknowledged by each party hereto, the CITY and the CONSULTANT agree to amend the Agreement as follows:

1. **Recitals.** The above recitals are true and correct and are incorporated herein by reference.

2. **Consultant's Services.** Section 2 of the Agreement, regarding the CONSULTANT's services, is amended to add the additional services as outlined in the CONSULTANT's proposal and new rates, and consisting of one page, which is attached hereto as **Exhibit "1"** and incorporated herein.

3. Fees. Section 5 of the Agreement, regarding the CONSULTANT's fees, is amended to allow for the additional services to be provided by the CONSULTANT under this Eighth Amendment. Compensation paid by the CITY to the CONSULTANT shall not exceed One Hundred Ninety-Seven Thousand, Seven Hundred Sixty Dollars (\$197,760.00) under this Eighth Amendment.

4. **Term of Agreement.** Section 4 of the Agreement shall be amended to provide that the Agreement expires November 30, 2022 unless earlier terminated as stated in the Agreement.

5. **Entire Agreement.** The CITY and the CONSULTANT agree that the Agreement (as previously amended) and this Eighth Amendment set forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Eighth Amendment may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto. All other terms and conditions of the Agreement (as previously amended) remain in full force and effect.

6. **Counterparts.** This Eighth Amendment may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument. Either or both parties may sign this Eighth Amendment electronically and provide a copy to the other via facsimile or email and such signature is as valid as the original signature of such party.

<u>REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK</u> <u>SIGNATURE PAGE FOLLOWS</u>

IN WITNESS WHEREOF the parties hereto have made and executed this Eighth Amendment to the Professional Services Agreement on the day and year first above written.

ATTEST:

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____ By: _____ Melissa Ann Coyne, City Clerk Betty Resch, Mayor APPROVED AS TO FORM AND APPROVED FOR FINANCIAL LEGAL SUFFICIENCY: SUFFICIENCY By: _____ Bruce T. Miller, Financial Services Director By: _____ Glen J. Torcivia, City Attorney Vantage Energy Consulting, LLC CONSULTANT: By: _____ [Corporate Seal] Print Name: _____ Title: STATE OF ______

THE FOREGOING instrument was acknowledged before me by means of • physical presence or • online notarization on this _____ day of ______ 2021, by ______, as the ______ of **Vantage Energy Consulting, LLC**, a corporation authorized to do business in the State of Florida, who is personally known to me or who has produced_______ as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.

3

Exhibit "1" (Vantage Rates – 1 page)

		Proposed Vantage Budget for LWB Wor Fiscal 2022	k	Days	Hours
4					
1		budgeting including			
	LWB Budg				
		Actual versus Budget updates		7	
		external rate consultants		7	
		Financial Projections		8	
	Bill Verifi			4	24
		casting for Model		7	56
	Nominati	ons(including Model Update)		2	16
2	Solar Energy /Avoid	ed cost/Energy Conservation		7	48
3	Greenhouse and car	bon free		4	32
4	Maintain All In Cost	Model		15	120
5	Produce Budget Var	iance Reports			
	Monthly			15	120
	Quarterly			12	96
6	Assist with Ad Hoc P	Assist with Ad Hoc Presentations, Reports and meetings		7	56
7	Assist with new ON	/renegoiate Supplemental if required		10	80
		Total		105	824
			Blended Hourly Rate		\$240
			Annual Budget		\$197,760

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Task Order No. 10 with E.C. Fennell, PA., for Distribution System Planning services for the 6th Avenue Substation Circuits and Southeast Quadrant of the City's Electrical Service Area

SUMMARY:

Task Order No. 10 authorizes E.C. Fennell, PA, to provide Distribution Planning engineering services for the 6th Avenue Substation Circuits and Southeast Quadrant of the City's Electrical Service Area a cost not to exceed \$97,812. This project has been identified as an element of the City's electric utility System Hardening and Reliability Improvement Project (SHRIP) and for which bonds were sold in November 2020.

BACKGROUND AND JUSTIFICATION:

The City issued a Request for Qualifications (RFQ 18-303) to provide letters of interest and Professional Qualifications from consulting companies/firms for civil engineering, geotechnical engineering, surveying, architecture, hydrogeological services, energy management and engineering services. E.C. Fennell, PA, was one of three firms selected under the Energy Management category for the Continuing Contracts for Professional Services.

The City's Electric Utility is currently working with E.C. Fennell on the engineering design for the voltage conversion and system hardening of the four (4) existing 6th Avenue Substation circuits. In addition, E.C. Fennell has also prepared the PB&Z package for the new 6th Avenue 8-Bay Substation that will provide power to the existing 6th Avenue circuits and will also provide power to additional circuits currently being fed power from the 4kV House at the Main Yard Substation.

Task Order No. 10 authorizes E.C. Fennell to complete distribution planning analysis of the existing 6th Avenue circuits, 4kV House circuits and also evaluate the 12th Avenue South Substation circuits and 15th Avenue South Substation Circuits which canvas the Southeastern quadrant of the City.

The primary objective of the Distribution System Planning is to maintain grid safety and improve reliability at a reasonable cost. E.C. Fennell will utilize the newly developed Milsoft model of the City's electrical distribution system to evaluate existing loads on the 4kV House circuits, 12th Ave. South Substation circuits and 15th Ave. South Substation circuits to support and optimize capital decisions pertaining to voltage conversion and network reconfiguration. The Distribution System Planning scope includes; evaluating, comparing and tuning the Milsoft model against real-time operational data, evaluate loading and spare capacity on the existing circuits and transformers, perform power flow analysis to calculate kW, kVar, Voltage and current flows on the existing circuits, evaluate sub-transmission circuit routes, model various switching scenarios to identify potential issues, complete short circuit analysis on 26kV circuits and complete fuse coordination analysis.

MOTION:

Move to approve/disapprove Task Order No. 10 to E.C. Fennell PA., for Distribution System Planning services for the 6th Avenue Substation Circuits and Southeast Quadrant of the City's Electrical Service Area at a cost not to exceed \$97,812.

ATTACHMENT(S):

Fiscal Impact Analysis Task Order No. 10

FISCAL IMPACT ANALYSIS

Α. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	\$97,812 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Net Fiscal Impact	\$97,812	0	0	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

Β. Recommended Sources of Funds/Summary of Fiscal Impact: Funds have been identified in account No. 421-6034-531-63.15, Project SH2132.

Account Number Account Project FY22 Current Budget Agenda Balance Description Number Budget Balance Transfer Expenditure 421-6034-531-63.15 \$229,184 \$-97,812 \$102,188 Improve SH2132 \$200,000 Other than Build / Infrastructure

C.

TASK ORDER NO. 10

Distribution Planning Services – 6th Avenue Substation & Southeast Quadrant of Electrical Service Area

THIS TASK ORDER ("Task Order") is made on the ______, 2021, between the **City of Lake Worth Beach**, a Florida municipal corporation located at 7 North Dixie Highway, Lake Worth, Florida 33460 ("City") and <u>**E.C.Fennell, PA**</u>, a Florida corporation ("Consultant").

1.0 <u>Project Description</u>:

The City desires the Consultant to provide those services as identified herein and generally described as: **Distribution Planning Services for 6th Avenue Substation & SE Quadrant of Service Area** (the "Project"). The Project is described in the consultant's proposal, dated November, 2021, and is attached hereto as Exhibit "1" and incorporated herein.

2.0 <u>Scope</u>

Under this Task Order, the Consultant will provide professional services to the City as detailed in the **Consultant's proposal attached hereto and incorporated herein as Exhibit "1".**

3.0 <u>Schedule</u>

The services to be provided under this Task Order shall be completed within **<u>180</u>** calendar days from the City's approval of this Task Order or the issuance of a Notice to Proceed.

4.0 <u>Compensation</u>

This Task Order is issued for a time and expense, not to exceed amount of **<u>\$97,812.00</u>**. The attached proposal identifies all costs and expenses anticipated in the time and expense, not to exceed amount.

5.0 <u>Project Manager</u>

The Project Manager for the Consultant is <u>Tarek El-Sadek</u>, phone: <u>561-471-4029 x 247</u>; email: <u>telsadek@ecfconsultants.com</u>; and, the Project Manager for the City is <u>Paul Nicholas</u>, phone: <u>561-533-7353</u>; email: <u>Pnicholas@LakeWorthBeachfl.gov</u>.

6.0 <u>Progress Meetings</u>

The Consultant shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

7.0 <u>Authorization</u>

This Task Order is issued in compliance with the Consultants' Competition Negotiation Act, section 287.055, Florida Statutes, and pursuant to the Agreement for Professional Services between the City of Lake Worth and the Consultant, dated <u>March 16th, 2018</u> ("Agreement" hereafter). If there are any conflicts between the terms and conditions of this Task Order and the Agreement, the terms and conditions of the Agreement shall prevail; however, the specific scope of services set forth in this Task Order shall take precedence over any other more general description of services.

IN WITNESS WHEREOF the parties hereto have made and executed this Task Order No. 10 on the day and year first above written.

CITY OF LAKE WORTH BEACH, FLORIDA

By: Betty Resch, Mayor

ATTEST:

By:

Deborah M. Andrea, City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL SUFFICIENCY

By: Glen J. Torcivia, City Attorney By: Bruce T. Miller, Financial Services Director

CONTRACTOR:

E.C. Fennell, PA

By Jole Gonzalez Print Name: Jolie Gonzalez Title: Manager

[Corporate Seal]

STATE OF FLOLIDA COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this 10^{771} day of 100^{771} , 2021, by 5021EGun2after was physically present, as MANAGEA (title), of E.C. Fennell, PA, a Florida Corporation, which is authorized to do business in the State of Florida, andpersonally known to me or who has produced the following who is as identification. Kz Ra 9 Notary Public

JUSEANGEL howzour Print Name: My commission expires:



Page 2 of 3

EXHIBIT "1" Contractors Proposal

Voltage Conversion & Network Reconfiguration – Phase A

Distribution Planning Proposal

Prepared for

City of Lake Worth Beach 7 North Dixie Hwy Lake Worth Beach, FL 33460-3725

Prepared by

E.C. Fennell P.A. 701 Northpoint Parkway Suite 110 West Palm Beach, FL 33407

November, 2021



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City of Lake Worth Beach Procurement Department 7 North Dixie Highway Lake Worth Beach, FL 33460



Re: Request for Proposal for distribution planning analysis pertaining to Voltage Conversion and associated Network Reconfiguration

Dear City of Lake Worth Beach:

This letter serves to formally inform you and the review/ranking committee members for the City of Lake Worth Beach, of E.C. Fennell P.A. (ECF Engineering Consultants), intent to express interest in providing professional engineering services to CLWB for Distribution Planning Support.

ECF Engineering Consultants is a Minority Owned multi-disciplined consulting firm established in West Palm Beach, Florida and incorporated as a corporation in 2002. ECF since its conception, has provided consultation and technical solutions to a number of engineering markets worldwide. ECF's core business is to serve Public Municipal Agencies, Private Development Projects and Utility Companies on an array of projects offering planning, investigative, design and construction administration services. Our expertise is in value engineering and providing a comprehensive engineering solution to exceed our clients' expectations. Our services are tailored to meet industry guidelines, technological advances, and most importantly client, project and system needs.

In this proposal, ECF has provided to the City of Lake Worth Beach Procurement Department all the required information necessary to be considered highly qualified to fulfill CLWB's distribution study needs. Our firms' history shall demonstrate ECF's ability over an extended period of time to provide technical leadership in the areas the CLWB is requesting services. Our team member's resumes are exemplary. ECF has assembled a team with extensive knowledge and experience in many aspects of electric utilities.

Our team has the ability to get the job done effectively and meet CLWB's project objectives. We are confident that once the information presented in this proposal has be examined, you shall recognize the added value ECF Engineering Consultants can bring to City of Lake Worth Beach.

Please accept this letter as ECF's official intent to assist the City of Lake Worth Beach towards achieving its objective of maintaining and improving its facilities.

Sincerely.

Shauna Fennell Hawkins

President ECF Engineering Consultants 701 Northpoint Parkway Suite 110 West Palm Beach, FL 33407 efennell@ecfconsultants.com

1 Background Information

The City of Lake Worth Electric Utility (CLWU) is a non-profit and citizen owned utility providing power to 27,000 customers with a peak demand of 97MW. The local load is served through approximately 80MW of conventional generation, 2MW via a solar PV plant, 1.5MW through net-metering rooftop solar PV and the rest via an interconnection to FPL.

Since the primary objective of distribution system planning is to maintain grid safety and reliability at a reasonable cost, as the grid continues on evolving, the CLWU has requested a proposal from ECF Engineering Consultants, LLC (ECF) to perform a distribution planning study on their 26kV and 4.16kV system spanning a four-square mile area, focusing on the southeast quadrant of the city. Distribution planning in any utility covers multiple critical responsibilities as shown below in Figure 1.

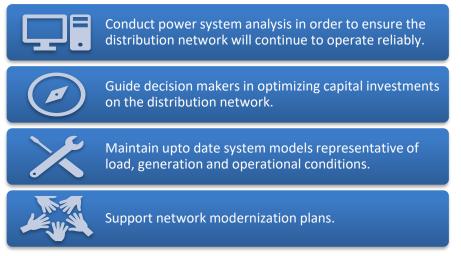


Figure 1 - Typical Distribution Planning Responsibilities

Furthermore, the distribution planning study will support and optimize capital decisions pertaining to voltage conversion and network reconfiguration. The analysis will be an ongoing effort to model planned and proposed voltage conversion at 6th Ave substation, identify potential synergy in converting close by 4kV feeders, load-serving reliability, and sub-transmission reinforcement. During the span of the study, ECF will act as CLWU's in-house distribution planner with ongoing staff interaction, discussion and analysis.

In addition, the study will focus on the following main tasks:

- 1. Analysis of exiting loads on the 4kV House, 12 Ave S, 15 Ave S circuits and studying the best approach to convert its current feeders to 26kV.
- 2. Assess the need for a 4 vs 8 configuration at 6th Ave substation including studying N-1

contingencies and voltage drop at tail end of feeders.

- 3. Update system model, provided by Milsoft, as needed to include accurate feeder loads, voltages, fuses, relays, and other equipment.
- 4. Analyze appropriate path and source for distribution substations to have redundant subtransmission supply.
- 5. Analysis of current loads fed from sub-transmission feeders and moving these loads to 26kV distribution feeders.

2 Study Proposal

The CLWU has started the process of converting 4kV feeders to 26kV, allowing for more thermal capabilities and load serving on the conductors. The conversion process is no easy task and requires well a planned approach to achieve the level of reliability thought after.

In addition, the CLWU is currently focusing its conversion efforts on the southeast quadrant of the city's electric network, as shown below in Figure 2. This area consists of both sub-transmission and distribution substations, and feeder lines.

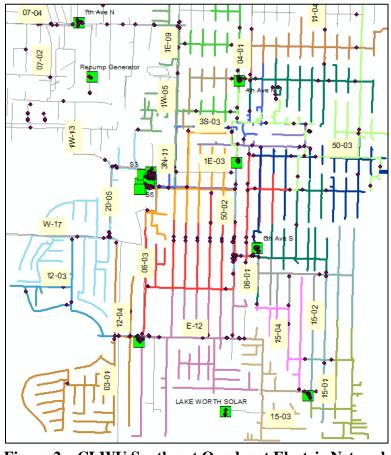


Figure 2 – CLWU Southeast Quadrant Electric Network

Voltage Conversion & Network Reconfiguration Distribution Planning Proposal E.C. Fennell P.A.

The hardening and conversion design is close to completion for the 6th Ave substation. The 6th Ave substation is located within a close proximity to the 4kV House, Main 26 Yard Sub, 12th Ave Sub, 15th Ave Sub, East Switching Station and the 4th Ave North Sub. A critical element to the hardening of 6th Ave is determining the number of recloser bays to be utilized, 4 or 8 recloser bays. Having spare recloser bays allows for N-1 contingency load serving for faults at the station level.

Also, the 4kV House is planned for decommissioning which will require its feeders a new source, namely 3N-11, 3N-12, 3N-13, 3S-03, 3S-04 and 3S-05. These 4kV feeders will be converted to 26kV and tied to adjacent feeders and/or routed to a new source. These planned activities will require analysis to ascertain thermal capability of conductors/equipment and acceptable power quality, specifically voltage drop at tail ends of feeders.

Sub-transmission station Main 26 Yard Sub is the main source feeding distribution substations in the area. As the 4kV feeders were overloaded and as the voltage conversion occurs, the sub-transmission station feeders were utilized to serve load directly or through distribution feeder tiein. These source feeders need to regain their initial intent by serving distribution substations. The study, will analyze other avenues to clear load off the source feeders through load reallocation.

Currently, distribution substations are sometimes feed from other distribution subs or from a single sub-transmission feed. A contingency scenario where a single sub-transmission feeder or station is faulted can cause cascading blackouts over a wide serving area. To mitigate such adverse impacts, the study will explore redundant sub-transmission feeding of distribution substations. This could occur by tying-in to sub-transmission feeders and finding alternate paths through usage of existing distribution feeders or adding new circuits on the distribution feeder poles.

3 Scope of work

The below high-level scope of work will be utilized to achieve the study goals

3.1 Model Tuning

Prior to conducting planning studies with the newly created model, by Milsoft, the model's performance has to be indexed against operational data recorded by CLWU. Operational data including short circuit levels, voltage levels and loading levels at specific feeders will be monitored for consistency with the model, by ECF. Any missing fusing data, conductor sizing, etc will need to be manually modelled by ECF. Also, recloser and substation over current relays will be modeled with their appropriate settings, by ECF.

Voltage Conversion & Network Reconfiguration Distribution Planning Proposal

3.2 Load Modelling

In order to confirm thermal loadings and spare capacity on feeders and transformers, an accurate representation of the network's loading condition needs to be modeled. As discussed with the CLWU team, AMI readings or manual probing of circuits will be required, by CLWU. After loading data is gathered, a conversion of loads from 4kV to 26kV will be calculated and modeled on the laterals they represent, by ECF.

3.3 Power Flow Analysis

ECF will perform power flow analyses to calculate KW, KVar, Voltage and Current flows on the feeder circuits. Different tie-ins and joining of feeders, adding a feeder to another feeder, will then occur and simulations will be carried out, while observing system conditions for any adverse impacts. If adverse impacts are found, mitigative measure will be proposed and discussed with CLWU including low voltage issues, capacitor placement, etc. Moreover, different switching scenarios and sub-transmission routes will be studied by ECF. The list of feeder tie-in and switching scenarios will be provided by CLWU. ECF will deliver powerflow diagrams and tabulations of analyses results. Powerflow analyses will only be conducted on 26kV circuits and not secondary circuits.

3.4 Short Circuit Analysis

ECF will carry out short circuit simulations for all affected feeders to ensure convergence and gauge the model readiness to perform fuse coordination studies. Short circuit current levels will be documented for equipment on the feeders including over-head and underground conductors, switches, devices, and electrical nodes. Short circuit analyses will only be conducted on 26kV circuits and not secondary circuits.

3.5 Fuse Coordination Analysis

Coordination of protection devices in a complex distribution system is an ongoing activity that requires updated system data and a protection philosophy. The CWLU fusing guidelines will be reviewed, compared to the installed fuse banks and coordinated with updated short circuit data. ECF will conduct coordination analysis and deliver coordination curves for 26kV circuits only.

4 Required Data

A distribution system model utilizes a large amount of data to accurately depict each asset's behavior during normal and abnormal system conditions. Study simulations require data to be as true as possible so resulting datapoints aren't inherently skewed. Moreover, system planners strive

to build accurate desktop models while knowing that a percent error will always linger, nonetheless must be minimized.

ECF will work with CLWU personnel to acquire the data needed for modelling and subsequent studies. As a minimum, and to serve as a reference, the below list of data will be needed by the study kickoff date.

4.1 Lines (Sub-transmission & Distribution)

- a. Overhead/Underground
- b. Conductor Types
- c. Tower Configurations
- d. Distance
- e. Conductor Spacing
- f. Single, Two, or Three Phase Labels

4.2 Distribution Transformer & In-Line Transformers

- a. Location
- b. KVA, Voltage Ratings, and impedance
- c. Connections

4.3 Shunt Capacitors

- a. Location
- b. kVAR & Voltage Rating
- c. Phase Connections

4.4 Voltage Regulators/LTC

- a. Location
- b. Phase Connections
- c. Single Phase or Three Phase Regulation
- d. Type A or B

4.5 Switches

- a. Location
- b. Normal Operating Position NO or NC

4.6 Loading Information

- a. Location
- b. System
- c. Substations
- d. Transformers

Voltage Conversion & Network Reconfiguration Distribution Planning Proposal

- e. Consumers
- f. Peak/Light/Forecasted

4.7 Generation Sources

- a. Location
- b. MVA, PF
- c. Impedance

4.8 Protection

- a. Fusing guide lines and charts
- b. Relay type, model and settings
- c. Operational reference data including fault data and trips

5 Cost Proposal

5.1 Time and Material (Not to Exceed) Proposal

ECF is providing a proposal for services indicated in Section 2 "Study Proposal" and outlined in this document in the form of time and material not to exceed.

Task	Planning Engineer Hours
1. Analysis of exiting loads on the 4kV House, 12 Ave S, 15 Ave S circuits and studying the best approach to convert its current feeders to 26kV.	163.2
2. Assess the need for a 4 vs 8 configuration at 6th Ave substation including studying N-1 contingencies and voltage drop at tail end of feeders.	13.8
3. Update system model, provided by Milsoft, as needed to include accurate feeder loads, voltages, fuses, relays, and other equipment.	64.8
4. Analyze appropriate path and source for distribution substations to have redundant sub-transmission supply.	156
5. Analysis of current loads fed from sub-transmission feeders and moving these loads to 26kV distribution feeders.	100.8
ECF's Time and Material (Not to Exceed) offer for the services defined in this document is: \$97,812.00	514.8

Table 1 – Time and Material (Not to Exceed) Proposal

Voltage Conversion & Network Reconfiguration Distribution Planning Proposal

5.2 Out of Scope Support Cost Plus Offer

Fees for services rendered beyond those indicated in this document will be invoiced on a cost plus basis. Prior to executing a request, the scope of work, anticipated duration and pay rate of said task would be agreed to by all parties. ECF shall be paid at the man-hour rates indicated below for resources used in completing out of scope work, plus any Reimbursable Expenses, which shall, for the purposes of this proposal, mean the actual, direct, out-ofpocket expenses consisting of (i) costs incurred for drawing reproduction, travel is requested by Company, and related car rental, lodging and meals of Consultant, and (ii) costs for

5.3 Payment Schedule

The payment schedule for the project will be based on a monthly invoice submittal.

5.4 Invoices

Payment of invoices shall be mailed to the following:
Attn: Ms. Shauna E. Hawkins
E. C. Fennell, P.A.
701 Northpoint Parkway, Suite #110 West Palm Beach, FL 33407

Thank You

For Considering ECF Engineering Consultants



EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Agreement for Call Center Support Services with ENCO Utility Services, LLC

SUMMARY:

Agreement for Call Center Support Services with ENCO Utility Services, LLC utilizing the City of Homestead Contract (RFP# 202107) and authorization of funding the agreement to provide Call Center Support Services for Customer Service division in the prorated amount not exceed \$342,000 for Fiscal Year 2022; \$460,000 for Fiscal Year 2023; and the prorated amount of \$152,000 for Fiscal Year 2024.

BACKGROUND AND JUSTIFICATION:

The Florida Municipal Power Agency (FMPA) issued a Request for Proposal (RFP #2018-214) for qualified firms to offer Utility Call Center Support Services for its Florida members. The City along with other Florida municipalities participated in the F.M.P.A. RFP in which the City Commission later approved the F.M.P.A. agreement with ENCO on August 21, 2018 and retained ENCO to provide call center services to the City. The City's current agreement with ENCO expires on December 31, 2021.

On February 1, 2021, the City of Homestead awarded a contract for Call Center Services under RFP #202107 to ENCO Utility Services, LLC as the only respondent with Water, Sewer and Electric service experience and experience using the NaviLine CRM system (which both Homestead and Lake Worth Beach utilize). The CITY has requested and the the City of Homestead has agreed to extend the terms and conditions of the City of Homestead Contract to the CITY for Call Center Support Services. The CITY has reviewed the unit prices from the City of Homestead Contract and determined that the City of Homestead Contract unit prices are competitive and will result in the best value to the CITY.

The Agreement with ENCO for Call Center Services has allowed the City to offer its customers 7x24 access to a live customer service representative, something that was not possible under the previous business model of answering calls in person at the Annex only during normal business hours. This has expanded the hours of operation to serve our customers from M-F 8am to 5pm to 7x24x365 along with disaster recovery during hurricane season.

The City is hereby requesting authorization of funding in the amount of a prorated amount not exceed \$342,000 for Fiscal Year 2022; \$460,000 for Fiscal Year 2023; and a prorated amount of \$152,000 for Fiscal Year 2024.

MOTION:

Move to approve/disapprove the Agreement for Call Center Support Services with ENCO Utility Services, LLC utilizing the City of Homestead Contract (RFP# 202107) for a prorated amount

not to exceed \$342,000 for Fiscal Year 2022; \$460,000 for Fiscal Year 2023; and a prorated amount of \$152,000 for Fiscal Year 2024.

ATTACHMENT(S):

Fiscal Impact Analysis Agreement

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	0 \$342,000 0 0 0	0 \$460,000 0 0 0	0 \$152,000 0 0 0	0 0 0 0	0 0 0 0
Net Fiscal Impact	\$342,000	\$460,000	\$152,000	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

B. Recommended Sources of Funds/Summary of Fiscal Impact:

Account Number	Account Description	Project Number	FY22 Budget	Current Balance	Agenda Expenditure	Balance
401-1240-513.34-50	Contractual Services		\$400,000	\$400,000	-\$342,000	\$58,000

AGREEMENT FOR CALL CENTER SUPPORT SERVICES (Utilizing the City of Homestead (Contract# RFP 202107))

THIS AGREEMENT FOR CALL CENTER SUPPORT SERVICES ("Agreement") is made as of the ______, 2021, by and between the **CITY OF LAKE WORTH BEACH**, 7 N. Dixie Highway, Lake Worth Beach, FL 33460, a Florida municipal corporation organized and existing under the laws of the State of Florida, ("CITY"), and **ENCO Utility Services**, LLC, a Delaware Limited Liability Company authorized to do business in the State of Florida, whose address 8141 Kaiser Blvd., Ste. 212, Anaheim, CA 92808 ("CONTRACTOR").

RECITALS

WHEREAS, the CITY's Electric Utility department is in need of Call Center Support Services; and

WHEREAS, on February 1, 2021, the City of Homestead awarded a contract for Call Center Services under RFP #202107 to the CONTRACTOR ("City of Homestead Contract"); and

WHEREAS, the CITY has requested and the CONTRACTOR along with the City of Homestead has agreed to extend the terms and conditions of the City of Homestead Contract to the CITY for Call Center Support Services; and,

WHEREAS, the CITY has reviewed the unit prices from the City of Homestead Contract and determined that the City of Homestead Contract unit prices are competitive and will result in the best value to the CITY.

NOW THEREFORE, in consideration of the mutual promises set forth herein, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. <u>Recitals.</u> The parties agree that the recitals set forth above are true and correct and are fully incorporated herein by reference.

2. <u>The City of Homestead Contract</u>. The terms and conditions of the City of Homestead Contract are adopted by reference and established in this Agreement as if set forth at length herein. Accordingly, the CITY shall have all rights and responsibilities as if it were the City of Homestead under the City of Homestead Contract. All required insurance policies of the CONTRACTOR under the City of Homestead Contract are required under this Agreement and will list the CITY as an additional insured.

3. <u>Term</u>. The term of this Agreement shall be consistent with the term of the City of Homestead Contract, which is valid until January 31, 2024 (unless earlier terminated by the CITY or CONTRACTOR as stated herein). If the City of Homestead Contract is extended beyond January 31, 2024, the CITY and CONTRACTOR may extend the term of this Agreement commensurate with that of the City of Homestead Contract extension by written amendment.

4. <u>Conflict of Terms and Conditions</u>. Conflicts between documents that make up this Agreement shall be resolved in the following order of precedence:

- a. Any amendments to this Agreement;
- b. This Agreement; and,
- b. The City of Homestead Contract.

5. <u>Compensation to CONTRACTOR</u>. CONTRACTOR shall submit invoices to the CITY for review and approval by the CITY's representative, indicating that all goods and services have been provided and rendered in conformity with this Agreement and then will be sent to the Finance Department for payment. The invoices will reflect the rates to be charged under the City of Homestead Agreement, which are attached as **Exhibit "A"** to this Agreement for ease of reference. Invoices will normally be paid within thirty (30) days following the CITY representative's approval. In order for both parties herein to close their books and records, CONTRACTOR will clearly state "final invoice" on the CONTRACTOR's final/last billing to the CITY. This certifies that all services have been properly performed and all charges have been invoiced to the CITY. Since this account will thereupon be closed, any and other further charges if not properly included in this final invoice are waived by the CONTRACTOR. The CITY will not be liable for any invoice from the CONTRACTOR submitted thirty (30) days after the provision of all services.

- 6. Miscellaneous Provisions.
- A. This Agreement shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce this Agreement will be held in Palm Beach County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.
- B. Except for any obligation of the CONTRACTOR to indemnify the CITY, if any legal action or other proceeding is brought for the enforcement of this Agreement, or because of an alleged dispute, breach, default or misrepresentation in connection with any provisions of this Agreement, each party shall be liable and responsible for their own attorney's fees incurred in that enforcement action, dispute, breach, default or misrepresentation. FURTHER, TO ENCOURAGE PROMPT AND EQUITABLE RESOLUTION OF ANY LITIGATION, EACH PARTY HEREBY WAIVES ITS RIGHTS TO A TRIAL BY JURY IN ANY LITIGATION RELATED TO THIS AGREEMENT.
- C. If any term or provision of this Agreement, or the application thereof to any person or circumstances shall, to any extent, be held invalid or unenforceable, to remainder of this Agreement, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.

- D. All notices required in this Agreement shall be sent by certified mail, return receipt requested or by nationally recognized overnight courier, and sent to the addresses appearing on the first page of this Agreement. Notices to the CITY shall be to the attention of the City Manager.
- E. The CITY and the CONTRACTOR agree that this Agreement (including the terms and conditions of City of Homestead Contract) sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Agreement may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto. Any provision of this Agreement which is of a continuing nature or imposes an obligation which extends beyond the term of this Agreement shall survive its expiration or earlier termination.
- F. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and will become effective and binding upon the parties as of the effective date at such time as all the signatories hereto have signed a counterpart of this Agreement. This Agreement may be executed electronically.
- G. If any term or provision of this Agreement, or the application thereof to any person or circumstances shall, to any extent, be held invalid or unenforceable, to remainder of this Agreement, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.
- H. This Agreement shall not be construed more strongly against either party regardless of who was more responsible for its preparation.
- In accordance with Palm Beach County ordinance number 2011-009, the CONTRACTOR acknowledges that this Agreement may be subject to investigation and/or audit by the Palm Beach County Inspector General. The CONTRACTOR has reviewed Palm Beach County ordinance number 2011-009 and is aware of its rights and/or obligations under such ordinance.
- J. <u>PUBLIC RECORDS</u>. The CONTRACTOR shall comply with Florida's Public Records Act, Chapter 119, Florida Statutes, and, if determined to be acting on behalf of the CITY as provided under section 119.011(2), Florida Statutes, specifically agrees to:
 - 1. Keep and maintain public records required by the CITY to perform the service.
 - 2. Upon request from the CITY's custodian of public records or designee, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
 - 3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of this Agreement if the CONTRACTOR does not transfer the records to the CITY.

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4. Upon completion of this Agreement, transfer, at no cost, to the CITY all public records in possession of the CONTRACTOR or keep and maintain public records required by the CITY to perform the service. If the CONTRACTOR transfers all public records to the CITY upon completion of the Agreement, the CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the CONTRACTOR keeps and maintains public records upon completion of the Agreement, the CONTRACTOR keeps and maintains public records upon completion of the Agreement, the CONTRACTOR keeps and maintains public records upon completion of the Agreement, the CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the CITY, upon request from the CITY's custodian of public records or designee, in a format that is compatible with the information technology systems of the CITY.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (561) 586-1660, <u>CITYCLERK@LAKEWORTHBEACHFL.GOV</u>, OR BY MAIL AT CITY OF LAKE WORTH BEACH, ATTN: City Clerk, 7 NORTH DIXIE HIGHWAY, LAKE WORTH BEACH, FLORIDA 33460.

K. SCRUTINIZED COMPANIES.

- 1. Contractor certifies that it and its subcontractors are not on the Scrutinized Companies that Boycott Israel List and are not engaged in the boycott of Israel. Pursuant to section 287.135, Florida Statutes, the City may immediately terminate this Agreement at its sole option if the Contractor or any of its subcontractors are found to have submitted a false certification; or if the Contractor or any of its subcontractors, are placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of this Agreement.
- 2. If this Agreement is for one million dollars or more, the Contractor certifies that it and its subcontractors are also not on the Scrutinized Companies with Activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged in business operations in Cuba or Syria as identified in Section 287.135, Florida Statutes. Pursuant to Section 287.135, the City may immediately terminate this Agreement at its sole option if the Contractor, or any of its subcontractors are found to have submitted a false certification; or if the Contractor or any of its subcontractors are placed on the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or are or have been engaged with business operations in Cuba or Syria during the term of this Agreement.
- 3. The Contractor agrees to observe the above requirements for applicable subcontracts entered into for the performance of work under this Agreement.

- 4. The Contractor agrees that the certifications in this section shall be effective and relied upon by the City for the term of this Agreement, including any and all renewals.
- 5. The Contractor agrees that if it or any of its subcontractors' status changes in regards to any certification herein, the Contractor shall immediately notify the City of the same.
- 6. As provided in Subsection 287.135(8), Florida Statutes, if federal law ceases to authorize the above-stated contracting prohibitions then they shall become inoperative.

L. E-VERIFY.

Pursuant to Section 448.095(2), Florida Statutes, beginning on January 1, 2021, the CONTRACTOR shall:

- 1. Register with and use the E-Verify system to verify the work authorization status of all newly hired employees and require all subcontractors (providing services or receiving funding under this Agreement) to register with and use the E-Verify system to verify the work authorization status of all the subcontractors' newly hired employees;
- 2. Secure an affidavit from all subcontractors (providing services or receiving funding under this Agreement) stating that the subcontractor does not employ, contract with, or subcontract with an "unauthorized alien" as defined in Section 448.095(1)(k), Florida Statutes;
- 3. Maintain copies of all subcontractor affidavits for the duration of this Agreement and provide the same to the CITY upon request;
- 4. Comply fully, and ensure all of its subcontractors comply fully, with Section 448.095, Florida Statutes;
- 5. Be aware that a violation of Section 448.09, Florida Statutes (Unauthorized aliens; employment prohibited) shall be grounds for termination of this Agreement; and,
- 6. Be aware that if the CITY terminates this Agreement under Section 448.095(2)(c), Florida Statutes, CONTRACTOR may not be awarded a contract for at least 1 year after the date on which the Agreement is terminated and will be liable for any additional costs incurred by the CITY as a result of the termination of the Agreement.

REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK SIGNATURE PAGE FOLLOWS

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IN WITNESS WHEREOF, the CITY and CONTRACTOR hereto have made and executed this Agreement for Call Center Support Services as of the day and year first above written.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _

By:

ATTEST:

Betty Resch, Mayor

By: Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL SUFFICIENCY:

By:

Glen J. Torcivia, City Attorney

CONTRACTOR:

ENCO UTILITY SERVICES, LLC

Bruce T. Miller, Financial Services Director

By: Ruby Irigoyen

[Corporate Seal]

Print Name: Ruby M. Irigoyen

Title: SVP Customer Services

Virginia STATE OF COUNTY OF Lynchburg

THE FOREGOING instrument was acknowledged before me by means of • physical presence or vonline notarization on this 08 day of <u>November</u> 2021, by <u>Ruby Irigoyen</u>, as the SVP Customer Service [title] of ENCO Utility Services LLC, A Delaware Limited Liability Company, which is authorized to do business in the State of Florida , who is personally known to me or Driver License who has produced____ _____as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.



Amroth Ju DTARY PUBLIC

Document Notarized using a Live Audio-Video Connection

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Exhibit "A" **Fees and Payment Schedule**

EXHIBIT A FEES AND PAYMENT SCHEDULE

City shall pay ENCO for spessived services performed under this Agreement, at City's direction and as its ligent, as set forth below.

ENCO's pricing is firm for a period of two years after agreement is signed with an actual pricing increase of 2% for year 3 and then annually beyond. Pricing for both alternatives excludes direct costs of travel and lodging if neighbod by the City.

Service Parkage A - 24/7 Call Center Services	Monthly Average based on 2020	Price per Call per Moath	Estimated Annual Cost (Based on 2020 Ave)
If total calls are 500 or less		13,13	
If total calls per month are between 501 and 2000	1130	\$ 3.02	41,676.09
If total calls per morth are between 2001 and 3000		\$ 1,92	
(From) calls per month are 5001 or higher		\$ 2.72	
Autoserve Online, IVR and Emergency Orders	250	\$ 1.30	\$4,590,03
Outbound text Messages regarding Outages	99	No Chaige	
Outhourd IVR Catheregarding Outriges	43	\$ 0,50	\$270,40
TOTAL ESTIMATED ANNUAL COST & ONE-	FIME COST(9	i):	\$46,446,00

Service Package B - Expanded 24/7 Customer Service Solutions	Monthly Average Price per based on Call per 2020 Month	(Based on
If total calls are 500 or less	\$ 5.60	A CONTRACTOR OF THE OWNER
If total calls per month are between 501 and 2820	\$ 5.60	
If total calls per month are between 2001 and 5000	\$ 5.60	
If total calls per month are 5001 or higher	5746 \$ 5,60	\$386.(31.00
TOTAL ESTIMATED ANNUAL COST & ONE-1	TME COST(S):	\$386,131.20

	Online Customer Service Requests and Emails	Price per Call per Month
	If lundled with emuil and no customer call back	
-	If handled but require a customer call back	\$ 5.60
ţ	Autoscive Gilline	§ 1,50

ENCO will perform customer service surveys as maturally agreed via email, text and or fVR with regular reports to the City. Development and deployment process to be unusually agreed and provided as additional services for the City.

Performance Adjustments Performance adjustments are a mechanism to drive good performance and customer satisfaction by establishing achievable goals with reward and persity elements where they are appropriate and supponable. Measurement of performance to goals must be objective and reliable.

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Responsibilities: ENCO will deliver services in a good workmanlike masner and provide the staffing, supervision and systems to hardle calls as described in Packages A and B based on the volumes provided by the City. The City will manage its activities in support of managing, and controlling call volumes and spikes resulting from billing and other internal univities.

Outage and Other Emergency Calls: Storms, weather and equipment failures impact the volume of calls and the duration of those volumes. For these types of calls, neither the City nor ENCO has control. ENCO and the City will work together to deliver alternative means for the customers of the City to report an emergency and reduce the call volume. No performance adjustments with he applied to goals for rull handling associated with outage and other emergency calls. ENCO and the City will work together to meet the performance goals as stated as much as is practicable

Customer Service Calls: ENCO has no control over the number of calls being delivered to it or the ability to slow them down or prevent spikes. Call volumes are driven by City billing processes and City department communications and events. The City will manage its billing services workload in support of managing and controlling call volumes and spikes. ISNCO and the City will review the upcoming week's anticipated volume driving events to level dase activities with the goal of tormalizing the volumes and avoiding otherwise already heavy days such as Mondays and Fridays.

In recognition that volumetric variables are out of UNCO's control, these performance adjustments will only apply after ENCO has been given thirty (30) days to care any defect causing the underperformance where the defect is on ENCO's side of service delivery. These Performance adjustments will not be placed into effect until after the end of the implementation Period as noted in Exhibit A. If the cull volumes are greater than the averages in the forecast for calls or if the underperformance is due to actions out of ENCO's control, then no penalty will apply, incentive and discounts will be applied monitaly and fined up the last menth of each contract year. Identive and discounts totals as aggregated shall not exceed Wa of the total involved for customer service incoming call inadding.

Goal Speed of Answer					P H'Actu	erforo al Moi	nance Ac ably Perl	ljustmen orminee	its Equal-;			
80% within 1 Mins	95%. \$750		89% \$350 hly Inc	\$150	83%. \$350	80 35 5 -	77% S(190)			6855 <u>\$(4(05)</u> Discourt	- 65% SI 5180	-33% \$(750)
Geal 35 Abandonment				···· .			iance Ac thly Perl	ljustaren	ils.			
1035 or leas	5% \$ 750				995 \$.350	10 %	1194 \$(100)	12% \$(200)	13% \$(30%)	14% \$(400)	15% \$(500)	21256 \${{\$6}
		Молі	bly Inc	eauve						Discount		

If other Professional Services are requested, that me not described in the scope of services, contractor shall be compensated according to the following schedule:

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Houthy Rates for Personnel:

21-CS-003

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Title	Rate / Hoar
Project Manager	\$105.00
Analyst	\$75,(8)
CSR / Admin	\$,10,00
Programmer	\$175.00

Hourly rates may be adjusted annually. Such annual adjustments shall not reflect a greater increase than the Miumi 7 Fort Laudendale consumer price index for that year and shall be approved by the City.

Direct expenses actually incurred by ENCO in the provision of the additional Professional Services under this Contract shall be reimbursed at cost, with no additional mark-up. Such reimbursable expenses include, but are not limited to, all travel expenses (with mileage at the IRS approved rate), lodging, long distance telephone and facsimile charges, photo-copying and printing costs, taxis and auto rental, postage, filing fees, word processing costs, transcript costs, secretarial overtime, notary fees and other expenses incurred on behalf of the City.

All such reimbursable expenses are subject to prior agreement in writing by both parties,

ENCO will bill City on a monthly basis; all payments under this Contract are due and payable within 30 days of invoice receipt date.

OTHER SERVICES AVAILABLE:

All of the following services are available via this Agreement: Outhound courtesy reminder IVR ealls, utility bitt printing and mailing, brochure and bill insert printing, Inckbox services. Electric system design services, utility material maintenance management softwate (UMMS).

OUTBOUND COURTESY NOTIFICATIONS SERVICES

Our notifications can be sent via Email, text message, or automated outbound IVR. We send the notices out based on your requirements within 24 hours.

Examples of the notification types are as follows:

Email: Text:	This is The City of Homestead with a remine on Monday July 31st to avoid additional fee- your bill online visit our website at http://w Bill" at the bottom of the home page. This is The City of Homestead with a remine July 31st to avoid additional fees & possible	s and possible service interruption. Fo pay wworg and click on "Pay My fer. Your utility bill must be paid by 6PM
IVR;	Out: This is The City of Homestead with a remin M on July thirty first to avoid additional fees	the. Your utility bill must be paid by 6 P
In	Schedule: itial Programming and Set-Up One Time onthly Base Charge	Waived \$125.00
Ŋ	rpe of Alert Emgil	Per Alett \$0.28
	ext 'R Calls	\$0.25 \$0.38

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CONTRACTOR AND ADDRESS



Contract Summary Form

			GENERAL	INFORMATION			and the second
Contract Status:	Active	e	١	/eronica Sanchez	Date:	2/16/202	21
Assigned Contract #	:	21-CS-00	3	Form Prepared By:	Tanesha	a Reid	L/26/202
Department / Divisio	on:	Electric Utili	ities	Vendor Name:	ENCO UTILIT	TY SERVICES,	LLC
Primary Contact:		Barbara Quin	iones	Vendor Contact:	RUB	Y M IRIGOVE	EN .
Primary Email:	BQuino	nes@cityofhc	omestead.co	Vendor Address:	8141	E KAISER BL	VD
Secondary Contact:		Tanesha Re	eid	City: ANAHEIM	State: CA	Zip	92808
Secondary Email:	TReid@	cityofhomest	ead.com	Vendor Email:	irigoyen@er	ncous.com	
Phone Number:		305-224-47	700	Vendor Phone Number:		51 9258092	
Fax Number:		305-224-47	769	Vendor Fax Number:		51-257-0316	5
Contract Name:	ENCO CI	ustomer Serv	ice Call Cent	er Agreement pursuant to R			
					11 11202107		
Briefly explain the pu Alternative A: 24/7 Ca	all Center Serv	ription of the	e scope of se ernative B: Ex	panded 24/7 Customer Serv	ICO to provide vice Solution.	e services for	
Alternative A: 24/7 Ca	all Center Serv ewed for (2) ac	ription of the vices and Alte dditional (1) y	e scope of se rnative B: Ex vear periods.	ervice of this contract: EN	ICO to provide vice Solution. budgets		
Briefly explain the pu Alternative A: 24/7 Ca	all Center Serv ewed for (2) ac	ription of the vices and Alte dditional (1) y	e scope of se ernative B: Ex vear periods. Departments	ervice of this contract: EN panded 24/7 Customer Serv Contract value within dept.	ICO to provide vice Solution. budgets <u>sk approval.</u>	e services for	
Briefly explain the pu Alternative A: 24/7 Ca Contract may be rene nsurance Required?	all Center Serv ewed for (2) ac <u>Please note t</u>	ription of the vices and Alte dditional (1) y that it is the I Yes	e scope of se ernative B: Ex vear periods. Departments If yes,	ervice of this contract: EN panded 24/7 Customer Serv Contract value within dept. s responsibility to obtain Ri who is required to have it?	ICO to provide vice Solution. budgets <u>sk approval.</u>		
Briefly explain the pu Alternative A: 24/7 Ca Contract may be rene nsurance Required?	urpose or desc all Center Serv ewed for (2) ac <u>Please note t</u> red to have in	ription of the rices and Alte dditional (1) y that it is the I Yes surance, plea	e scope of se ernative B: Ex year periods. Departments If yes, ase enter the	ervice of this contract: EN panded 24/7 Customer Serv Contract value within dept. s responsibility to obtain Ri who is required to have it? e insurance expiration date	ICO to provide vice Solution. budgets sk approval. (s) here.	e services for Vendor	
Briefly explain the pu Alternative A: 24/7 Ca Contract may be rene nsurance Required? f the vendor is requi	all Center Serv ewed for (2) ac <u>Please note t</u>	ription of the rices and Alte dditional (1) y that it is the I Yes surance, plea	e scope of se ernative B: Ex vear periods. Departments If yes,	ervice of this contract: EN panded 24/7 Customer Serv Contract value within dept. s responsibility to obtain Ri who is required to have it? e insurance expiration date	ICO to provide vice Solution. budgets <u>sk approval.</u>	e services for	
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DATE: 2/18/2021

21-CS-003 Page 1 of 2

Was this agreement reviewd or dr	afted by	a City Attorney? Yes If ye	s, whom?	N	latthew Pearl	
"Right to Audit" clause included?	Yes	Was this approved by Council?	Yes	Date / CAR#	1/20/2021	/ 3088
If so, please attach supporting doc	umentat	ion below:				

	BA	CKGROUND AND EXH	IBITS		
Exhibit Attachment(s):	U (6)				
Exhibit Description(s) 1	COUNCIL MEETING A	GENDA SUMMARY	6 CALL C	ENTER AGREEMEN	Т
2	RFP# 202107 - CALL C	CENTER SOLUTION-FINAL	7		
3	CERTIFICATE OF INSU	RANCE	8		
4	LEGAL APPROVAL EM	AIL	9		
5	RESOLUTION APPROV	ING ENCO AGREEMENT	10		
		REVIEW - APPROVALS	;		
Dept. Head Approval:	Approved	Roxana Pe	reira	Date:	1/27/2021
R Dept. Approval:	Not Applicable	Priscilla Tho	Priscilla Thompson		1/28/2021
isk Approval:	Approved	Priscilla Tho	mpson	Date:	1/28/2021
inance Dept. Approval:	Approved	Carlos M. F	Perez	Date:	1/27/2021
rs Div. Approval:	Approved	Yaniel Cor	rales	Date:	1/27/2021
leet Div. Approval:	Not Applicable	Lillian Lo	007	Date:	1/28/2021

Submit Contract Summary Form to Procurement for Processing

For Administrative Use Only

Completed and Appropriate	Packet Submitted to P	rocurement on:	Date:	1/28/2021
Prepared By:	Approved	Veronica Sanchez	Date:	1/28/2021
2nd Review:			Date:	
Final Review:	Approved	Malia Rivera	Date:	1/29/2021
Procurement/Contracts:			Date:	
Lock Summary Form:	Locked	Malia Rivera	Date:	1/29/2021

CALL CENTER SUPPORT SERVICES AGREEMENT

THIS CONTRACT is made and entered into this day <u>2/1/2021</u>, by and between the City of Homestead, a Florida municipal corporation, (the "City") acting through the City's Utilities Customer Service department, Homestead Public Services, hereinafter referred to as "City" and, ENCO Utility Services LLC hereinafter referred to as "ENCO." City and ENCO may hereafter be referred to individually as a "Party" or collectively as "Parties."

RECITALS:

WHEREAS, City desires to retain a person or firm to provide Call Center Services as described in **Exhibit A** of this Contract, pursuant to Request for Proposals For Call Center Solutions RFP # 202107; and

WHEREAS, ENCO warrants that it is qualified and competent to render the aforesaid services.

NOW, THEREFORE, for and in consideration of the Contract made, and the payments to be made by City, the parties agree to the following:

INTRODUCTION: CONTRACT DOCUMENTS:

This Agreement is comprised of this document (Call Center Support Services Agreement), the RFP # 202107 For Call Center Solutions, Exhibit A, Scope of Services, Exhibit B, Fees and Payment Schedule, which are attached and incorporated herein. In the event there is a conflict between any provision in this document, and any other provisions in any attached Exhibit, the parties agree that the provisions of this document shall be controlling. In the event there is a conflict between the Fees and Payment Schedule and the other Exhibits, the parties agree that the Fees and Payment Schedule and the other Exhibits, the parties agree that the Fees and Payment Schedule shall be controlling.

1. SCOPE OF SERVICES.

- A. ENCO agrees to provide all of the services described in the Scope of Service attached hereto as Exhibit "A" (collectively, the "Services").
- B. Reduction in Services. The City reserves the right to reduce the level of Services provided under this Agreement in its sole and absolute discretion upon 30 days prior written notice to ENCO. The reduction in the Scope of Service shall take effect not more than 30 days following receipt of written notice by ENCO. In the event of a reduction in the level of Services made in accordance with this Section, the terms and conditions of this Agreement shall remain in effect.
- C. The City may also require additional services not specifically identified in the contract. The Contractor agrees to provide such services, and shall provide the City prices on such additional services based upon a formula or method which is the same or similar to that used in establishing the prices in this proposal. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those services from other vendors. Furthermore, the City reserves the right to delete or revise items and services under this agreement at any time during the contract period when and where deemed necessary. Reduction in the Scope of Services, at the sole discretion of the City at any time during the contract period in accordance with Section 1.



2. <u>CITY OBLIGATIONS.</u>

The City agrees to:

- A. Provide access to and make provisions for the ENCO to obtain information required to perform its work as described in **Exhibit A**.
- B. Make available all pertinent data and records required to perform the work as described in **Exhibit A**.

3. FEES AND PAYMENT SCHEDULE.

- A. The fees, payment schedule and term for furnishing services under this Contract shall be based on the rate schedule attached hereto as **Exhibit B** and by this reference incorporated herein. Said fees and schedules shall remain in effect as described in Exhibit B for the term of the Contract.
- B. ENCO shall provide City with its Federal Tax I.D. number prior to submitting the first invoice.

4. TERM OF CONTRACT.

A. <u>TERM:</u>

At all times during the term of the contract, the Contractor shall act as an independent Contractor and at no time shall be considered an agent or partner of the City. The City does not guarantee any work during the term of the Agreement.

- i. Contract Period: This contract shall have an initial term of three (3) years and shall continue until the successful completion of the Services and may be earlier terminated, by either Party in accordance with the Termination clauses below. The contract may be renewed for two (2) additional one year periods provided both the Contractor and the City agree and all terms and conditions remain the same. Any contract or amendments shall be subject to fund availability and mutual written agreement between the City and the Contractor.
- **ii. Option to Extend:** The performance period of this contract a may be extended upon mutual agreement between the contractor and the City with no change in terms or conditions. Any extension of the performance period under this provision shall be in one-year increments (12 month duration). The contract may be renewed for two (2) additional one-year periods, provided both parties are in agreement. Total contract length, including individual one-year extensions, shall not exceed five (5) years.

Extension of the contract(s) for additional thirty (30) day periods for the convenience of the City, shall be permissible at the mutual consent of both parties not to exceed six (6) months to allow for a new solicitation to be solicited so long as it does not exceed a total of five (5) years inclusive of any extensions or renewal periods.

5. <u>TERMINATION CLAUSES.</u>

A. Termination for Convenience by City: The City upon 30 days written notice to the Contractor may terminate this Agreement, in whole or in part, with or without cause. In the event of termination, the Contractor shall be paid for all services rendered to the date of termination. The City reserves the right to immediately terminate the Contract upon City Manager's determination to protect the public's health, safety and welfare.



- B. Termination for Cause by City: The obligation to provide further services under this Agreement may be terminated by the City upon seven (7) days written notice in the event of failure by the Contractor to perform in accordance with the terms hereof through no fault of the City. The City can terminate immediately if deemed in the health, safety and welfare of the City. The City may then consider said inability to be a breach of this Contract and may undertake the necessary work through its own services or those of another Contractor. The City shall have the right to deduct the cost incurred in having to provide said services from the payments to be made to the Contractor under this Contract.
- C. Termination for Convenience or Cause by the Contractor: The Contractor upon at least 120 days written notice to the City may terminate this Agreement with or without cause.
- 6. <u>INSURANCE</u>. ENCO shall comply with the insurance provisions set forth in Section VII. Information Required of Proposer, Tab 4, Subsection e of the RFP.

7. CONFIDENTIALITY AND PUBLICATION; SURVIVAL OF OBLIGATIONS.

- A. <u>Confidential Information</u>. The term "Confidential Information" means written, recorded, and machine-readable information, or other information provided in tangible form by one Party to the other Party relating to the subject matter of this Contract, and which is clearly marked as "Confidential Information," and which is not a "public record" or which otherwise must not be disclosed under Chapter 119, Florida Statutes.
- B. <u>Nondisclosure Obligations</u>. If a Party has designated information as Confidential Information, neither Party shall disclose it in whole or in part, including derivations thereof, to any third party without the prior written consent of the other Party unless required to do so by law, in which case, the disclosing Party shall notify the other Party as soon as practicable.

A Party shall not be liable to the other Party for inadvertent or accidental disclosure of Confidential Information if the disclosing Party: (i) holds the Confidential Information in confidence to the same extent it protects its own confidential information; (ii) limits access to the Confidential Information to its employees and agents who are involved in subject matter of the Confidential Information and informs its employees and agents who have access to the Confidential Information of the Party's duty not to disclose, provided however, that ENCO acknowledges that City representatives, including but not limited to department heads, and legal counsel may have access to any and all Confidential Information and nothing herein shall be construed as prohibiting or limiting such access; and (iii) upon discovery of inadvertent disclosure, endeavors to prevent any further disclosure.

Either Party may disclose any Confidential Information when required by applicable law, order of a court, or other governmental authority, but shall promptly notify the other Party before making such disclosure. Nothing in this subsection is intended to limit the rights of either Party to challenge any disclosure request or order from a court or any other governmental authority.

C. Survival of Obligations. The obligations set forth in this Section shall survive the

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termination of the Contract.

- D. <u>Customer Information</u>. ENCO shall not disclose to third parties Customer information, including, but not limited to Customer name, service address, billing address, credit history, or usage history, without the express written authorization of the Customer.
- E. <u>Publication</u>. Unless agreed upon in writing, no Party shall publish or use the other Party's name, language, pictures, or symbols from which the other Party's name may be reasonably inferred or implied in any advertising, promotion, or any other publicity. Both Parties may refer to this Contract and its relationship to the other Party as a matter of fact.
- 8. <u>INDEMNIFICATION.</u> The parties shall comply with the indemnification provisions set forth in Section XI.I of the RFP.

Nothing in this Contract is intended to serve as a waiver of sovereign immunity by the City. Nothing in this Contract shall be construed as consent by the City to be sued by third parties in any matter arising out of this Contract or any other contract.

9. <u>REMEDIES</u>.

In the event of a material breach of this Contract, the non-breaching party may, at its sole discretion, pursue all available remedies, and elect to terminate the Contract. Except as otherwise provided in this Contract, all rights of termination, cancellation, or other remedies in this Contract are cumulative.

10. <u>LIMITATION OF LIABILITY</u>.

- A. Each Party's liability to the other for any losses relating to or arising out of any act or omission in its performance of obligations under this Contract shall be limited to the amount of direct damages, expenses and costs, and neither Party shall be liable to the other Party for any indirect, special, punitive or consequential damages of any kind whatsoever. The limitations set forth in this paragraph shall not apply to the Parties' indemnity obligations set forth above, nor to acts or omissions arising out of a Party's gross negligence or willful misconduct.
- B. Notwithstanding anything to the contrary, ENCO's cumulative liability to HOMESTEAD PUBLIC SERVICES under this Contract, whether in contract, tort, or otherwise, shall not exceed the total applicable insurance limits set forth in Section 6 of this Contract.
- C. ENCO will reimburse City costs, at union rates, incurred as a result of an ENCO failure to dispatch calls in accordance with City union call out requirements except that the reimbursement will be limited to actual out of pocket costs not to exceed \$500 per instance. ENCO will immediately investigate the error to determine the cause and implement process changes to reduce potential of future errors. ENCO will take disciplinary action as appropriate with the involved employee up to and including termination of the employee's employment if warranted and provide documentation for review to City.

13. MISCELLANEOUS.

<u>13.1</u> <u>NOTICES</u>. Whenever either party desires to give notice to the other, such notice must be in writing, sent by certified United States Mail, postage prepaid, return receipt requested, or by hand-deliver with request for a written receipt of acknowledgment of delivery, addressed to the party for whom it is intended at the place last specified. Notice shall be deemed given on the day on which personally served, or if by mail, on the date of actual receipt. The place for giving notice shall remain the same as set forth in this Section until changed in writing in the manner provided in this Section. For the present, the parties designate the following:

City of	ENCO Utility Services, LLC,
Homestead	a Delaware limited liability company
100 Civic Court	8141 E. Kaiser Blvd., Ste. 212
Homestead, FL 33030	Anaheim, CA 92808

<u>13.2</u> <u>Applicable Law and Venue.</u> This Contract shall be interpreted and constructed in accordance with and governed by the laws of the State of Florida. Venue for litigation concerning this Contract shall be in Miami-Dade County, Florida. The parties hereby knowingly and voluntarily waive the right to trial by jury in any litigation between the parties hereto.

<u>13.3</u> <u>Amendments.</u> No modification, amendment or alteration of the terms or conditions contained in this Contract shall be effective unless contained in a written document prepared with the same or similar formality as this Contract and executed by both City and ENCO.

<u>13.4</u> <u>Contract / Service Audit</u>. ENCO hereby grants City the right to audit any of ENCO's books, documents and papers pertaining to the services pursuant to this Agreement that were generated during the course of administration and performance of the Services under this Agreement.

<u>13.5</u> <u>Public Records Act Compliance.</u>

- A. ENCO agrees to keep and maintain public records in ENCO's possession or control in connection with ENCO's performance under this Agreement. ENCO additionally agrees to comply specifically with the provisions of Section 119.0701, Florida Statutes, as amended. ENCO shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed, except as authorized by law, for the duration of the Agreement, and following completion of the Agreement until the records are transferred to City.
- B. Upon request from the City custodian of public records, ENCO shall provide City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided by Chapter 119, Florida Statutes, or as otherwise provided by law.
- C. Unless otherwise provided by law, any and all records, including but not limited to reports, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of City.
- D. Upon completion of this Agreement or in the event of termination by either party, any and all public records relating to the Agreement in the possession of ENCO



shall be delivered by ENCO to the City Manager, at no cost to City, within seven (7) days. All such records stored electronically by ENCO shall be delivered to City in a format that is compatible with the City's information technology systems. Once the public records have been delivered upon completion or termination of this Agreement, ENCO shall destroy any and all duplicate public records that are exempt or confidential and exempt from public records disclosure requirements.

- E. Any compensation due to ENCO shall be withheld until all records are received as provided herein.
- ENCO's failure or refusal to comply with the provisions of this section shall F. result in the immediate termination of this Agreement by City. Section 119.0701(2)(a), Florida Statutes.

IF ENCO HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ENCO'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS.

Custodian of Records: Mailing address: **Telephone number: Email:**

ELIZABETH SEWELL, CITY CLERK 100 CIVIC COURT, HOMESTEAD, FL 33030 305-224-4442 ESEWELL@CITYOF HOMESTEAD.COM

IN WITNESS WHEREOF, the Parties have caused this Contract to be executed as of the date first above written.

City of Homestead By: Estrady Name:

Title: Asst. City manague

Date: 02 05 21

ENCO Utility Services, LLC, a Delaware limited liability company

By: Ruby M. Arigoyen Name: Ruby M. Irigoyen

Title: Sr. V.P. Customer

Services Date:

01-26-21

<u>EXHIBIT A</u> <u>SCOPE OF SERVICES</u>

The following describes the scope of services to be provided by ENCO UTILITY SERVICES for City.

General Scope:

- Provide services in English, Spanish, and Creole.
- Provide staff and supervision with appropriate training and experience with electric, water, wastewater, solid waste, utility and customer service operations to handle incoming customer calls.
- Train call center staff on the rules, policies, rates and guidelines of the City and on the use of the Homestead CIS / billing system (Central Square formerly HTE Sungard) and any future CIS systems as needed.
- Provide toll free or local telephone number for Homestead Public Service (HPS) customers.
- Host a multi-level auto attendant menu and provide opportunities for callers to leave a voicemail, hold their place in queue and receive a call back or wait for an agent.
- Ensure that processes, procedures and communications are compliant with all applicable laws and regulations, including legal privacy, and data retention requirements.
- Handle incoming calls within the established Homestead guidelines as set forth in training and documented processes and procedures.
- Contractor shall be able to record all calls (inbound and outbound) and make recordings available to the City within 24 hours of the request. Call recordings shall be archived for minimum of one (1) year.

Training of New Staff:

- Training will be provided on a train-the-trainer basis with Homestead personnel training our trainer. Training of ENCO staff shall be approximately ten (10) days in length.
- Ongoing training will be provided as needed one-on-one and for groups via live ENCO trainer and video recorded training.
- The City will supply required training documentation electronically, the Contractor will be responsible for the development, on-going revision and maintenance of the training documentation. ENCO will share its One Note training manual with the City.

Implementation Period

- The parties shall mutually agree on a plan to implement the Scope of Work and training requirements. Upon completion of the plan, the parties will utilize projections to continually provide adequate staffing and training levels to meet the performance standards. ENCO will perform three (3) Quality Evaluations monthly for each CSR and more frequently if a repeated issue is identified. Results can be shared with Homestead management.
- ENCO shall assign to the Homestead Public Service (HPS) a designated contact person for ongoing day-to-day account services and management of the program.
- Services are currently being provided; however, additional staff is required to bring the levels of staffing to the number needed to meet desired service levels. Hiring and training of these additional staff will take 30 to 45 days. The service level monitoring will begin 90 days after contract initiation.

Services Package A: 24/7 Call Center Services

• Receive and respond to all power outage or power emergency calls, 24/7.Receive and respond



to all after-hours utility related calls, 5:00 p.m. to 8:00 a.m. Monday through Friday and full days on weekend and holidays.

- Provide Power Outage Management software and system. Design and set up of customer and electric system equipment tables to allow for sorting of orders by field equipment/circuits and to allow for standard power outage reliability reporting metrics such as length of outage, reason for outage and number of customers affected.
- Forward information on outage calls to Homestead dispatch center, using Outage Management software. Homestead's dispatchers will call in repair crews.
- Provide a system that allows for on-line input of power outage reports by customer address.
- Contact customers to assure power has been restored after an outage up to 10:00 p.m. EST or later if requested by customer.
- Provide text messaging capability to provide customers with power outage status updates if requested by the customer.
- Provide outage message for customers when there is a large outage giving general location of affected area if available.
- Verify after-hours payments and create work orders to reconnect service(s).
- Callout appropriate employees and dispatch assigned HPS personnel/crews for field emergency service reconnect work at the meter once after-hours payments are processed.
- Process after-hour payments for reconnects.
- Run call out list and dispatch customer service personnel if required in accordance with overtime list (contact and current overtime lists to be provided by City).
- Take overflow calls during normal business hours as need.
- Handle basic billing and payment inquiries. Submit information to Homestead Public Service (HPS) to ensure that requests that cannot be managed by ENCO staff are escalated to the City utility staff as appropriate.

Services Package B: Expanded 24/7 Customer Service Solution

Between the hours of 8:00 a.m. to 5:00 p.m. local time Monday through Friday, ENCO will provide expanded customer services to include the following:

- Receive and address all incoming and outbound calls for routine and emergency services.
- Respond to and address all billing-related requests and inquiries such as: Billing and Payment inquiries, Billing disputes, Payment Arrangements, Utility consumption and meter reads
- Provide assistance, status and specific information on customer's application for new and or change of service, determine account balance and assist with payment processing.
- Respond to inquiries that require account research, take the appropriate action to resolve the issue and document in Customer Information System (CIS) Application.
- Provide information and guidance on a variety of processes and topics. E.g. billing rates, utility applications, payment options, sewer credit request forms, how to register utility accounts online, etc.
- Explain billing related notices, projects and communications administered by the City.
- Process account activations and shut offs. Document and process service orders.
- Provide information and education about utility specific programs, such as energy efficiency programs.
- Provide internal escalation of calls to an ENCO supervisor for specialized customer service issues as necessary.



- Communication of requests for special examination/review by Homestead Public Service (HPS) staff.
- Provide a system that allows for on-line request for service that sends and email to ENCO to handle and respond to customers of the City.
- Provide a system that allows for online request for payment arrangements requests that sends an email to either the City staff or ENCO to handle details to be worked out with the City.
- City will work with ENCO to redo the City's queue that is hosted by ENCO to provide customers with options to leave a voicemail, hang up and hold their place in queue for a call back and receive information about online, no call options for service requests.
- The City will develop and send out a bill stuffer to advise customers of the new ways to submit request to drive customers to these alternative methods such as the online customer service request, payment arrangement request and online outage order. Unless otherwise directed by the City, these orders will be worked by ENCO.

PERFORMANCE EVALUATION:

Throughout the contract period the vendor(s) performance will be monitored by City staff. If vendor performance fails to meet the standards specified and receives an unacceptable rating, the City may without cause and without prejudice to any other right or remedy, terminate the contract(s) whenever the City determines that such termination is in the best interest of the City. Notification of Contractor will be by certified mail. Contract termination shall be served by written notice by the Procurement Division.

Key Performance Goals: Performance shall be measured on a monthly basis according to the following goals and exceptions:

- Average Speed of Answer: Time for Customer Service Representative, CSR, to answer an inbound call after entering the queue. The queue is the point in the call flow process at which the call is first eligible to be directed to a CSR's workstation for handling.
 - Customer Services:

-Eighty percent (80%) of calls answered within 3 minutes except in major events or client caused over volume

- -Ninety-five percent (95%) of emails answered within 24 business hours
- -Eighty-five percent (85%) of voicemails answered within 6 business hours
- Power Outage calls:
 - Non-Storm 90% of calls answered within 60 seconds
 - Storm -70% of calls answered within 60 seconds (except for major events such as hurricanes)
- **Percent of Abandonment:** Abandonment rate is calculated as the number of calls abandoned divided by the total number of calls that last at least fifteen (15) seconds after the call is put into the queue following the IVR messaging, measured per calendar month. Excludes times when an active outage is in progress and or is being restored. Excludes calls where caller has selected a non-call center queue, excludes calls where the caller hangs up during the IVR message or during IVR call handling; excludes calls where the caller hangs up due to outage restoration or outbound IVR advising of Estimated Time of Restoration (ETR).
 - Five percent (5%) or less for customer service calls except in major events
 - Five percent (5%) or less abandonment rate for First Responder calls



Reports: ENCO shall provide a daily summary report and monthly detail report including the following: Total number of outbound and inbound calls, Calls answered; Average handle time; Average Wrap-up Time; Abandonment rate; Average speed of answer.

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EXHIBIT B FEES AND PAYMENT SCHEDULE

City shall pay ENCO for approved services performed under this Agreement, at City's direction and as its agent, as set forth below:

ENCO's pricing is firm for a period of two years after agreement is signed with an annual pricing increase of 2% for year 3 and then annually beyond. Pricing for both alternatives excludes direct costs of travel and lodging if required by the City.

Service Package A - 24/7 Call Center Services	Monthly Average based on 2020	Price per Call per Month	Estimated Annual Cost (Based on 2020 Ave)
If total calls are 500 or less		\$ 3.13	
If total calls per month are between 501 and 2000	1150	\$ 3.02	\$41,676.00
If total calls per month are between 2001 and 5000		\$ 2.92	
If total calls per month are 5001 or higher		\$ 2.72	
Autoserve Online, IVR and Emergency Orders	250	\$ 1.50	\$4,500.00
Outbound text Messages regarding Outages	90	No Charge	
Outbound IVR Calls regarding Outages	45	\$ 0.50	\$270.00
TOTAL ESTIMATED ANNUAL COST & ONE-T	TIME COST(S	5):	\$46,446.00

Service Package B – Expanded 24/7 Customer Service Solutions	Monthly Average based on 2020	Price per Call per Month	Estimated Annual Cost (Based on 2020 Ave)
If total calls are 500 or less		\$ 5.60	
If total calls per month are between 501 and 2000		\$ 5.60	
If total calls per month are between 2001 and 5000		\$ 5.60	
If total calls per month are 5001 or higher	5746	\$ 5.60	\$386,131.00
TOTAL ESTIMATED ANNUAL COST & ONE-	\$386,131.20		

Online Customer Service Requests and Emails	Price per Call per Month
If handled with email and no customer call back	\$ 3.75
If handled but require a customer call back	\$ 5.60
Autoserve Online	\$ 1.50

ENCO will perform customer service surveys as mutually agreed via email, text and or IVR with regular reports to the City. Development and deployment process to be mutually agreed and provided as additional services for the City.

Performance Adjustments

Performance adjustments are a mechanism to drive good performance and customer satisfaction by establishing achievable goals with reward and penalty elements where they are appropriate and supportable. Measurement of performance to goals must be objective and reliable.

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Responsibilities: ENCO will deliver services in a good workmanlike manner and provide the staffing, supervision and systems to handle calls as described in Packages A and B based on the volumes provided by the City. The City will manage its activities in support of managing and controlling call volumes and spikes resulting from billing and other internal activities.

Outage and Other Emergency Calls: Storms, weather and equipment failures impact the volume of calls and the duration of those volumes. For these types of calls, neither the City nor ENCO has control. ENCO and the City will work together to deliver alternative means for the customers of the City to report an emergency and reduce the call volume. No performance adjustments will be applied to goals for call handling associated with outage and other emergency calls. ENCO and the City will work together to meet the performance goals as stated as much as is practicable.

Customer Service Calls: ENCO has no control over the number of calls being delivered to it or the ability to slow them down or prevent spikes. Call volumes are driven by City billing processes and City department communications and events. The City will manage its billing services workload in support of managing and controlling call volumes and spikes. ENCO and the City will review the upcoming week's anticipated volume driving events to level those activities with the goal of normalizing the volumes and avoiding otherwise already heavy days such as Mondays and Fridays.

In recognition that volumetric variables are out of ENCO's control, these performance adjustments will only apply after ENCO has been given thirty (30) days to cure any defect causing the underperformance where the defect is on ENCO's side of service delivery. These Performance adjustments will not be placed into effect until after the end of the Implementation Period as noted in Exhibit A. If the call volumes are greater than the averages in the forecast for calls or if the underperformance is due to actions out of ENCO's control, then no penalty will apply. Incentive and discounts will be applied monthly and trued up the last month of each contract year. Incentive and discounts totals as aggregated shall not exceed 1% of the total invoiced for customer service incoming call handling.

<u>Goal</u> Speed of Answer		Performance Adjustments If Actual Monthly Performance Equals:										
80% within 3						80						
Mins	95%	92%	89%	86%	83%	%	77%	74%	71%	68%	65%	>55%
	\$750	\$650	\$550	\$450	\$350	\$ -	\$(100)	\$(200)	\$(300)	\$(400)	\$(500)	\$(750)
		Monthly Incentive						Monthly Discount				
Goal		Performance Adjustments										
% Abandonment					If Actua	al Mon	thly Perf	ormance	Equals:			
						10						
10% or less	5%	6%	7%	8%	9%	%	11%	12%	13%	14%	15%	>15%
	\$ 750	\$ 650	\$ 550	\$450	\$ 350	\$ -	\$(100)	\$(200)	\$(300)	\$(400)	\$(500)	\$(750)
		Monthly Incentive					1	Monthly	Discount			

If other Professional Services are requested, that are not described in the scope of services, contractor shall be compensated according to the following schedule:

Hourly Rates for Personnel:

21-CS-003

Title	Rate / Hour
Project Manager	\$105.00
Analyst	\$75.00
CSR / Admin	\$30.00
Programmer	\$175.00

Hourly rates may be adjusted annually. Such annual adjustments shall not reflect a greater increase than the Miami / Fort Lauderdale consumer price index for that year and shall be approved by the City.

Direct expenses actually incurred by ENCO in the provision of the additional Professional Services under this Contract shall be reimbursed at cost, with no additional mark-up. Such reimbursable expenses include, but are not limited to, all travel expenses (with mileage at the IRS approved rate), lodging, long distance telephone and facsimile charges, photo-copying and printing costs, taxis and auto rental, postage, filing fees, word processing costs, transcript costs, secretarial overtime, notary fees and other expenses incurred on behalf of the City.

All such reimbursable expenses are subject to prior agreement in writing by both parties.

ENCO will bill City on a monthly basis; all payments under this Contract are due and payable within 30 days of invoice receipt date.

OTHER SERVICES AVAILABLE:

All of the following services are available via this Agreement: Outbound courtesy reminder IVR calls, utility bill printing and mailing, brochure and bill insert printing, lockbox services. Electric system design services, utility material maintenance management software (UMMS).

OUTBOUND COURTESY NOTIFICATIONS SERVICES

Our notifications can be sent via Email, text message, or automated outbound IVR. We send the notices out based on your requirements within 24 hours.

Examples of the notification types are as follows:

- Email: This is The City of Homestead with a reminder. Your utility bill must be paid by 6PM on Monday July 31st to avoid additional fees and possible service interruption. To pay your bill online visit our website at http://www._____.org and click on "Pay My Bill" at the bottom of the home page.
- Text: This is The City of Homestead with a reminder. Your utility bill must be paid by 6PM July 31st to avoid additional fees & possible service interruption. Reply STOP to opt out.
- IVR: This is The City of Homestead with a reminder. Your utility bill must be paid by 6 P M on July thirty first to avoid additional fees and possible service interruption.

Pricing Schedule:	
Initial Programming and Set-Up One Time	Waived
Monthly Base Charge	\$125.00
<u>Type of Alert</u> Email	Per Alert \$0.28



Text	\$0.25
IVR Calls	\$0.38

21-CS-003

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Second Amendment to Agreement with G&W Electric Company for the purchase of 38kV Reclosers

SUMMARY:

The Second Amendment to the Agreement with G&W Electric Company (G&W), authorizes G&W to provide 38kV Reclosers for use on the City's electrical distribution systems and substations at a cost not to exceed \$1,080,000. The 38kV Reclosers have been identified as critical components for the City's electric utility System Hardening and Reliability Improvement Projects (SHRIP) and for which bonds were sold in November 2020.

BACKGROUND AND JUSTIFICATION:

In 2019, the City issued Request for Proposals (RFP 18-218) for the procurement of 38kV Reclosers for use on the City's Electric Distribution Systems.

On, April 2, 2019 the City awarded the Agreement based on the competitive solicitation to G&W to provide 38kV Reclosers. The Term of the Agreement was for two (2) years, with two (2) single-year renewal options with a not-to-exceed value of \$580,000.

On April 6, 2021 the City exercised its first option to renew the G&W Agreement extending the terms of the Agreement through April 2, 2022.

Over the past two years, the electric utility has purchased and installed multiple reclosers on the City's Electrical Distribution Systems to improve system performance and reliability. The use of Reclosers on electrical distribution systems offer the following benefits;

- Utilized to split large circuits into smaller circuits minimizing customer impacts during an outage event and improving reliability
- Provide for automated and remote control to provide alternate power source to speed up restoration time when needed in an emergency situation
- New Schweitzer Engineering Laboratories (SEL) controls provide additional Supervisory Control and Data Acquisition (SCADA) functionality for fault detection and recovery
- Improve system reliability and improved customer satisfaction

The reclosers purchased to date were installed at the distribution substations and at selected locations on the distribution feeders to minimize the number of customers affected during an outage event. To continue with the SHRIP program, the City is requesting the purchase of additional substation and pole-mounted reclosers and is requesting an increase of \$500,000 in the not-to-exceed value of the Agreement with G&W from \$580,000 to \$1,080,000

This Second Amendment to the Agreement with G&W, authorizes G&W to provide 38kV Reclosers for use on the City's electrical distribution systems and substations at a cost not to exceed \$1,080,000.

MOTION:

Move to approve/disapprove the Second Amendment to the Agreement with G&W Electric Company for the purchase of 38kV Reclosers at a cost not to exceed \$1,080,000.

ATTACHMENT(S):

Fiscal Impact Analysis Second Amendment

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	\$1,080,000 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0
Net Fiscal Impact	\$1,080,000	0	0	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

B. Recommended Sources of Funds/Summary of Fiscal Impact: Funds have been identified in account No. 421-6034-531-6315.

Account Number	Account	Project	FY22	Current	Budget	Agenda	Balance
	Description	Number	Budget	Balance	Transfer	Expenditure	
421-6034-531- 63.15	Improve Other than Build / Infrastructure	Multiple	\$43,120,563	\$31,076,222		\$1,080,000	\$29,996,222

SECOND AMENDMENT TO CONTRACTOR AGREEMENT 38 KV Reclosers (Electric Utilities)

THIS SECOND AMENDMENT ("Amendment") to the Contractor Agreement for 38 KV Reclosers is made as of ______, 2021, by and between the **City of Lake Worth Beach**, Florida, a municipal corporation of the State of Florida ("CITY") and **G&W ELECTRIC COMPANY**, an Illinois Corporation with its principle office located at 305 W Crossroads Parkway IL, 60440 ("CONTRACTOR").

WHEREAS, the City issued Request for Proposal RFP 18-218 for the procurement of 38KV Reclosers ("RFP"); and

WHEREAS, on April 2, 2019, the CITY and CONTRACTOR entered into the Contractor Agreement for CONTRACTOR to provide 38KV Reclosers to the CITY ("Agreement"); and

WHEREAS, the term of the Agreement was for two (2) years with two (2) additional single year renewal options; and

WHEREAS, on April 6, 2021, the CITY exercised its first option to renew the Agreement through April 2, 2022; and

WHEREAS, the CITY and CONTRACTOR wish to increase the total maximum costs to be paid by the CITY under this Amendment to a not to exceed amount of One Million Eighty Thousand Dollars (\$1,080,000.00) and all other terms and conditions remain the same; and

WHEREAS, the CITY finds amending the Agreement as set forth herein is in the best interest of the CITY and serves a valid public purpose.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the sufficiency of which is hereby acknowledged by each party hereto, the CITY and the CONTRACTOR agree to amend the Agreement, as follows:

1. **Recitals.** The above recitals are true and correct and are incorporated herein by reference.

2. **Maximum Cost.** The total amount not to exceed under this Amendment shall be \$1,080,000.00 (One Million Eighty Thousand Dollars).

3. Entire Agreement. The CITY and the CONTRACTOR agree that the Agreement (as previously amended) and this Amendment set forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Amendment may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto. All other terms and conditions of the Agreement (except as previously amended and amended herein) remain in full force and effect.

4. **Counterparts.** This Amendment may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument. Either or both parties may sign this Amendment via facsimile, email or electronically and such signature is as valid as the original signature of such party.

IN WITNESS WHEREOF, the parties hereto have made and executed this Second Amendment to the Contractor Agreement for 38 KV Reclosers on the day and year first above written.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____

Betty Resch, Mayor

ATTEST:

By:

Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL SUFFICIENCY

By: Glen J. Torcivia, City Attorney By: _____

Bruce T. Miller, Financial Services Director

G&W ELECTRIC COMPANY.

By: John Jounaris

Print Name: John Gounaris

STATE OF ______) COUNTY OF _____(all___)

Title: Vice President Marketing

THE FOREGOING instrument was acknowledged before me by means of \bullet physical presence or • online notarization on this 19 day of <u>October</u> 2021, by <u>John (Fromans</u>, as the <u>VP 0.F</u> <u>Markenng</u> [title] of G&W Electric Company, an Illinois Corporation, who is personally known to me or who has produced _______ as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.

Notary Public Signature

Notary Seal:

[Corporate Seal]



EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: November 30, 2021

TITLE:

Second Amendment to Agreement with ABB Inc. for the purchase of magnetically actuated 38kV vacuum circuit breakers

SUMMARY:

Second Amendment to Agreement with ABB Inc. (ABB), authorizes ABB to provide magnetically actuated 38kV vacuum circuit breakers for use at the City's electrical substations at a cost not to exceed \$450,000. The magnetically actuated 38kV vacuum circuit breakers have been identified as critical components for the City's electric utility System Hardening and Reliability Improvement Projects (SHRIP) and for which bonds were sold in November 2020.

BACKGROUND AND JUSTIFICATION:

In 2018, the City issued Request for Proposals (RFP 18-213) for the procurement of magnetically actuated 38kV vacuum circuit breakers for use on the City's electrical substations.

On, September 13, 2018, the City awarded the Agreement based on the competitive solicitation to ABB Inc. to provide magnetically actuated 38kV vacuum circuit breakers. The Term of the Agreement was for two (2) years, with two (2) single-year renewal options with a not-to-exceed value of \$200,000 per Fiscal Year for Fiscal Years 2018 & 2019.

On April 7, 2021, the City exercised its first option to renew the G&W Agreement extending the terms of the Agreement through September 13, 2021. The not to exceed value was increased to \$300,000 for Fiscal Year 2021 under this First Amendment.

The magnetically actuated 38kV vacuum circuit breakers will be installed in City's substations as they are rebuilt and updated with new, technologically advanced equipment, including the 7th Avenue North substation, which is currently in construction, the upcoming Canal 8-Bay distribution substation and the new 6th Avenue South substation. The breakers serve as electric system protection devices on the 26.4 kV feeders and sub-transmission loops in order to increase service and reliability to thousands of customers.

The ABB R-Mag breakers operate in similar fashion to breakers found in a household breaker panel. When a fault on the power line is experienced, the breaker will open and disrupt power based on voltage and current thresholds programmed in the breaker relay device. This function is critical in life-safety protection as well as protecting system equipment when a fault is experienced.

The R-MAG® is truly the next generation in medium voltage vacuum circuit breaker technology. ABB is the first to combine the unique benefits of vacuum interrupter technology with a magnetic actuator designed to exploit these capabilities. Using a flux-shifting device with integral permanent magnets, the R-MAG mechanism has only one moving part. With simple open and close coils, an electronic controller and capacitors for energy storage, the R-MAG circuit breaker mechanism is capable of 10,000 load operations. These are a few of the features that mark a departure from the conventional spring-operated mechanism, introducing new capabilities and

benefits for a smarter distribution system. To continue with the SHRIP program, the City is requesting the purchase of additional magnetically actuated 38kV vacuum circuit breakers and is requesting a not-to-exceed increase in the Agreement with ABB.

This Second Amendment to the Agreement with ABB, authorizes ABB to provide magnetically actuated 38kV vacuum circuit breakers for use on the City's electrical distribution systems and substations at a cost not to exceed \$450,000 for Fiscal Year 2022.

MOTION:

Move to approve/disapprove Agreement with ABB Inc. for the purchase of magnetically actuated 38kV vacuum circuit breakers at a cost not to exceed \$450,000 for Fiscal Year 2022.

ATTACHMENT(S):

Fiscal Impact Analysis Second Amendment

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	\$450,000 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Net Fiscal Impact	\$450,000	0	0	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

B. Recommended Sources of Funds/Summary of Fiscal Impact: Funds have been identified in account No. 421-6034-531-6315.

Account	Account	Project	FY22	Current	Agenda	Balance
Number	Description	Number	Budget	Balance	Expenditure	
421-6034- 531-63.15	Improve Other than Build / Infrastructure	Multiple	\$43,120,563	\$31,076,222	\$450,000	\$30,626,222

SECOND AMENDMENT TO AGREEMENT FOR GOODS AND SERVICES (Magnetically Actuated 38kV 12/2000A Outdoor Vacuum Circuit Breaker)

THIS SECOND AMENDMENT ("Amendment") is made as of <u>November 15</u>, 2021, by and between the **City of Lake Worth Beach**, Florida, a municipal corporation of the State of Florida ("CITY") and **ABB**, **Inc.** ("CONTRACTOR").

WHEREAS, on September 13, 2018, the CITY and CONTRACTOR entered into an Agreement for Goods and Services (Magnetically Actuated 38kV 12/2000A Outdoor Vacuum Circuit Breaker) ("Agreement"); and

WHEREAS, the term of the Agreement was for two (2) years with option for two (2) one (1) year renewal options that may be exercised by the City Manager; and

WHEREAS, on April 7, 2021 the City exercised its first option to renew the Agreement through September 13, 2021 ("First Amendment"); and

WHEREAS, the CITY and the CONTRACTOR wish to amend the Agreement to extend the term of the Agreement for one (1) additional year; and

WHEREAS, the CITY has reviewed the CONTRACTOR's proposed increased rate schedule, which is attached hereto as Exhibit "A", and determined that the increase is fair and reasonable; and

WHEREAS, the CITY finds amending the Agreement as set forth herein is in the best interest of the CITY and serves a valid public purpose.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the sufficiency of which is hereby acknowledged by each party hereto, the CITY and the CONTRACTOR agree to amend the Agreement, as follows:

1. **Recitals.** The above recitals are true and correct and are incorporated herein by reference.

2. **Term of Agreement.** The parties agree that the term of the Agreement is hereby extended to September 12, 2022 unless earlier terminated as stated in the Agreement.

3. **Compensation**. The parties agree that the compensation to be paid by the CITY to the CONTRACTOR under this Amendment is set forth in **Exhibit "A"**, which is attached hereto and incorporated herein.

4. **Amount Not To Exceed.** The maximum amount to be paid by the CITY to the CONTRACTOR under this Amendment shall not exceed \$450,000.00 (Four Hundred Thousand Fifty Thousand Dollars).

5. **Entire Agreement.** The CITY and the CONTRACTOR agree that the Agreement, First Amendment and this Amendment set forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Amendment may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto. All other terms and conditions of the Agreement and First Amendment, except as amended herein, remain in full force and effect.

6. **Counterparts.** This Amendment may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument. Either or both parties may sign this Amendment via facsimile, email or electronically and such signature is as valid as the original signature of such party.

<u>REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK</u> <u>SIGNATURE PAGE FOLLOWS</u>

IN WITNESS WHEREOF, the parties hereto have made and executed this Second Amendment to the Agreement for Goods and Services (Magnetically Actuated 38kV 12/2000A Outdoor Vacuum Circuit Breaker) on the day and year first above written.

CITY OF LAKE WORTH BEACH, FLORIDA

By:

Betty Resch, Mayor

ATTEST:

By:

By:

Melissa Ann Coyne, City Clerk

Glen J. Torcivia, City Attorney

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL SUFFICIENCY

By:

Bruce T. Miller, Financial Services Director

CONTRACTOR:

ABB, INC. hand By:

[Corporate Seal]

Print Name: Nathaniel Meredith

Title: Complex Proposals Manager - ELDS Products

STATE OF Texas)
COUNTY OF Collin)

THE FOREGOING instrument was acknowledged before me by means of • physical presence or • online notarization on this 15 day of November 2021, [title] of ABB, Inc., a by Nathaniel Meredith , as the Manager Florida Corporation, who is personally known to me or who has produced Drivers License as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same

BRADEN HICKMAN	Bh
Notary Public, State of Texas Comm. Expires 07-02-2022	Notary Public Signature
Notary Seal of Notary ID 131629497	

Page 3 of 4

Exhibit "A" (Contractor's rate proposal, 12 Pages)



Commercial and Technical Tender ABB Negotiation Number:QT-21-01887510.A Equipment: R-MAG[®] Outdoor Dead Tank Breaker

1/27/2021

This proposal offers the market leading circuit breaker, the ABB R-MAG. ABB's R-MAG has over 10 years of field proven experience and over 16,000 installations. ABB is the only company to offer a full medium voltage portfolio with magnetic actuation, from 15 to 38 kV. The R-MAG is designed to provide the most reliable breaker in the market, minimizing downtime, improving SAIDI measurements, and significantly decreasing maintenance costs over the lifetime of the product. ABB's R-MAG delivers quantifiable value in the following areas:

Increased reliability

Optimized durability with the ability to achieve 10,000 operations, five times greater than the ANSI requirement, over a temperature range of -50 to +70°C

 Minimized potential points for failure by having only one moving part in the magnetic actuator operating system, as opposed to spring-charged mechanisms that house over 100 moving parts

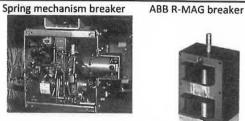
- Unparalleled performance of internal components
 - ABB magnetic actuator is rated for 100,000 operations for the 15 and 27 kV R-MAGs and 50,000 operations for the 38 kV R-MAG
 - ABB's world leading vacuum interrupters are rated for 30,000 full load operations

Reduced O&M

- NO MAINTENANCE is required on the magnetic actuator, as opposed to spring-charged mechanisms that are dependent on periodic maintenance to ensure proper operation.
- Minimal maintenance is required every 2,000 operations, four times the ANSI standard of 500 operations between servicing
- · Shorter maintenance times as there are no coils or motors to replace and there is no gas or oil used
- · Easy plug and play design of the ED2 electronic control board for rapid replacement in the field



Average maintenance costs savings over an estimated 30 year service life 1





Operating mechanism maintenance cost	\$6,850.00	\$0.00
General maintenance costs	\$475.00	\$142.50
Electronic control replacement costs	\$7,290.00	\$3,915.00
Lifetime maintenance costs	\$14,615.00	\$4,057.50
Lifetime O&M savings per R-MAG Breaker	\$10,557,50	

ABB's R-MAG has over 10 years of proven experience with over 16,000 installations. The R-MAG comes with a 5-year comprehensive warranty and 24 hour / 7 day a week customer service.

ABB is ready to support this proposal with technical application experts, spare parts, training, and support services to ensure the ease of installation and the reduction of the total cost of ownership. Thank you in advance for considering this proposal. Please do not hesitate to contact ABB with any questions

Best Regards,

Ismael Castillo ABB Inc. 655 Century Point Lake Mary, , 32746-2137 United States Phone: Email: ismael.castillo@us.abb.com

¹ For additional information on cost savings calculations, see the 'Example R-MAG Cost Savings' section below.



Commercial and Technical Tender

ABB Inc. 655 Century Point Lake Mary, FL 32746 Tel: 407-732-2000

Date:	10/29/2021
Tender ID:	QT-21-01887510.A5
Account manager:	
Valid through:	10/29/2022
Specifications:	
Revision:	A5

Prepared for: CITY OF LAKE WORTH BEACH

7 N Dixie Hwy Lake Worth Beach Florida, 33460-3725 Prepared by: Ismael Castillo ABB Inc. 655 Century Point Lake Mary, 32746-2137 United States Email: ismael.castillo@us.abb.com



Pricing

149.5

Standard Line Item:

ltem	Qty	Image	Product Type	Net Price Each (USD)	ltem Total (USD)
2	1		ANSI Dead Tank Vacuum	36,724.00	36,724.00
		Allelie-	Magnetic Circuit Breaker R- MAG		
			MAG		
		0-1	ABB Product ID:		
		1.	MB3015DMMSH5KBZ4		
			Key ratings:		
			ANSI outdoor magnetically		
			actuated vacuum circuit		
			breaker R-MAG®		
			Customer Product ID:		
			Primary Voltage: 38		
			Current: 1250A		
			BIL: 200		
			Interrupting current: 31.5		
			Standard lead time*		
			 20 weeks with approval drawings 		
			 15 weeks without approval 		
			drawings and an existing bill		
			of material		
			*See full details in the Delivery section in the Terms and Conditions		
3	1		ANSI Dead Tank Vacuum	38,998.00	38,998.00
		A. Ste Bei #	Magnetic Circuit Breaker R-		
		and a	MAG		
		011	ABB Product ID:		
			MB3025DUUSH5KBZ4		
			Key ratings:		
			ANSI outdoor magnetically		
			actuated vacuum circuit		
			breaker R-MAG®		
			Customer Product ID:		
			Primary Voltage: 38		
			Current: 2000A		

BIL: 200



Interrupting current: 31.5

Standard lead time* • 20 weeks with approval drawings • 15 weeks without approval drawings and an existing bill of material *See full details in the Delivery section in the Terms and Conditions

Total sale price (USD)

75,722.00



the local data in the local data

Technical Data Sheet

Item 2 (Standard Line Item)

ABB Product ID: MB3015DMMSH5KBZ4

Туре	R-MAG			
Types Rating	MB3015 - 38 kV 1250 Amp 200 kV BIL 31.5 kA			
Voltage	38 kV			
BIL	200 kV BIL			
Current	1250A			
Interrupting Current	31.5			
Power Frequency	60 Hz			
Auxiliary Switches	D - (2) 16 deck snap action rotary switch			
CTs 1-3-5	M - 2 Set 1200/5 C400 TR 2.00 (8.24")			
CTs 2-4-6	M - 2 Set 1200/5 C400 TR 2.00 (8.24")			
Material Type	Stainless Steel			
Enclosure Material	S-SSTL Cab (38kV 1250/2000A)			
BCT Shorting Type	Standard shorting type terminal blocks			
BCT Wiring	#10 AWG; All taps wired to term block			
ED2.0 board	H - 85-264 VAC or 77-280 VDC High Voltage Board (38 kV)			
Control Voltage	5 - 125 VDC Operating Voltage			
Circuit Protection	K - Fused knife switches provided for control circuits			
Bushing Creep	Standard Creep Bushing			
Bushing Type	Standard Bushing (38 kV, 1200/1250 Amp, 200 kVBIL)			
Bushing Terminal Connectors	4 - 4 Hole NEMA Pad (1200/1250 Amp)			
Control Type	B - Basic Unit			
Panel Configuration	Z - Special panel			
Control Wiring	#14 AWG; Control Wire (Standard)			
Control Wiring Lugs	Insulated Lugs (Standard)			
Control Terminal Blocks	Standard terminal blocks as required.			
Heaters	Special Heater			
	Two 100W, 230 VAC continuously operated cabinet heaters			
Local/Remote Switch	(1) Standard local/remote switch provided			
Test Switches	No test switches provided			
Digital Meters	No digital meters provided			
Thermostats	(1) Standard thermostat included. Operating Range: 70°F to 80°F			
Wire Markers	Brady wire marker sleeves as required.			
Control Switch	No Control Switch Provided			
Legacy Material	No			
Special Final Assembly	Special Final Assembly None			
Shipping Special	Special Shipping Requirements No			
Seismic Option	None			

DYNAMIC ACCESSORIES

Dynamic Accessories	120 VAC relay cabinet light mounted inside relay control cabinet	
Dynamic Accessories	120 VAC relay cabinet light mounted inside relay control cabine	et



	(Qty 1)
Dynamic Accessories	120 VAC, 1 phase GFI utility outlet mounted inside the relay control cabinet. (Qty 1)
Dynamic Accessories	Ground Clamps (#4 - 4/0) (Qty 1)
Dynamic Accessories	Device Nameplates (Qty 1)
Dynamic Accessories	External Bushing Identification Stickers (Qty 1)
Dynamic Accessories	Cap discharge switch (Qty 1)
Dynamic Accessories	No vented door

Accessories

ABB Internal Order Entry Information

CID Code: 9AAC30400486 Source Location Code: 9AAE315900

Item 3 (Standard Line Item)

ABB Product ID: MB3025DUUSH5KBZ4

Туре	R-MAG	
Types Rating	MB3025 - 38 kV 2000 Amp 200 kV BIL 31.5 kA	
Voltage	38 kV	
BIL	200 kV BIL	
Current	2000A	
Interrupting Current	31.5	
Power Frequency	60 Hz	
Auxiliary Switches	D - (2) 16 deck snap action rotary switch	
CTs 1-3-5	U - 2 Sets 2000/5 C400 TR 2.00(4.76")	
CTs 2-4-6	U - 2 Sets 2000/5 C400 TR 2.00(4.76")	
Material Type	Stainless Steel	
Enclosure Material	S-SSTL Cab (38kV 1250/2000A)	
BCT Shorting Type	Standard shorting type terminal blocks	
BCT Wiring	#10 AWG; All taps wired to term block	
ED2.0 board	H - 85-264 VAC or 77-280 VDC High Voltage Board (38 kV)	
Control Voltage	5 - 125 VDC Operating Voltage	
Circuit Protection	K - Fused knife switches provided for control circuits	
Bushing Creep	Standard Creep Bushing	
Bushing Type	Standard Bushing (38 kV, 2000 Amp, 200 kVBIL)	
Bushing Terminal Connectors	4 - 4 Hole NEMA Pad (2000 Amp)	
Control Type	B - Basic Unit	
Panel Configuration	Z - Special panel	
	Provide cutout only for Qty. 1 (One) SEL-351S relay 3U and Qty. 2	
	(Two) FT style isolation switches	
Control Wiring	#14 AWG; Control Wire (Standard)	



Control Wiring Lugs	Insulated Lugs (Standard)
Control Terminal Blocks	Standard terminal blocks as required.
Heaters	Special Heater Two 100W, 230 VAC continuously operated cabinet heaters
Local/Remote Switch	(1) Standard local/remote switch provided
Test Switches	No test switches provided
Digital Meters	No digital meters provided
Thermostats	(1) Standard thermostat included. Operating Range: 70°F to 80°F
Wire Markers	Brady wire marker sleeves as required.
Control Switch	No Control Switch Provided
Legacy Material	Yes 1VAS000742-0001
Special Final Assembly	Special Final Assembly None
Shipping Special	Special Shipping Requirements No
Seismic Option	None

DYNAMIC ACCESSORIES

Dynamic Accessories	Cap discharge switch (Qty 1)
Dynamic Accessories	120 VAC, 1 phase GFI utility outlet mounted inside the relay control cabinet. (Qty 1)
Dynamic Accessories External Bushing Identification Stickers (Qty 1)	
Dynamic Accessories	Ground Clamps (#4 - 4/0) (Qty 1)
Dynamic Accessories	Device Nameplates (Qty 1)
Dynamic Accessories	120 VAC relay cabinet light mounted inside relay control cabinet (Qty 1)
Dynamic Accessories	No vented door

Accessories

ABB Internal Order Entry Information

CID Code: 9AAC30400486 Source Location Code: 9AAE315900



Clarifications

ABB provides quotation based on the specifications provided by CITY OF LAKE WORTH BEACH.

Revision History

Rev #	Date	Description of Change	Handled By
2	1/27/2021	Quantity updated to 1 (one), L/R switch added in ITEM#1 and ITEM#2	IC
4	9/15/2021	Validity date has been extended	MM
5	11/01/2021	No vented door Note	MM

Example R-MAG Cost Savings

Operating mechanism maintenance cost savings

		Mechanism	
		Spring charged ²	Magnetic actuator
Estimated ser	vice life (years) ³	30	30
Number of ye	ars between maintenance	2	Not applicable
Cost per mair	itenance event	\$685.00	Not applicable
	Labor cost per hour	\$85	Not applicable
event	Switching time (hrs)	2	Not applicable
	# of workers required for switching	2	Not applicable
Cost per	Time to complete maintenance (hrs)	2	Not applicable
Cost	# of workers required for maintenance	2	Not applicable
•	Material costs	\$5.00	Not applicable
lifetime main	tenance costs	\$10,275.00	\$0.00

Lifetime operating mechanism maintenance cost savings: \$10,275.00

² The values used for the spring charged mechanism breaker referred to In the 'Example R-MAG Cost Savings' are based on ABB's Rbreaker that utilizes a spring charged mechanism.

³ The Estimated Service Life refers to the normally observed useful service life for a product. The estimated service life will vary based on the environment, maintenance and usage of the breaker; ABB offers a standard 5 year limited warranty for its R-Mag product line.



General breaker maintenance costs

		Mechanism		
		Spring charged	Magnetic actuator	
Estimated service life (years) Number of years between maintenance		30	30 5	
		5		
Cost per main	ntenance event	\$47.50	\$47.50	
L.	Labor cost per hour	\$85	\$85	
ent ent	Time to complete maintenance (hrs)	0.5	0.5	
Cost per event	# of workers required for maintenance	1	1	
0	Material costs	\$5.00	\$5.00	
ifetime main	itenance costs	\$285.00	\$285.00	

Lifetime general maintenance cost savings: \$0.00

ED2.0 electronic control board cost savings

		Spring mechanism change-out cost	R-MAG ED2 board change-out cost
Estimated se	rvice life (years)	30	30
Number of ye	ears between replacement	10	10
Cost per repl	acement event	\$2,780.00	\$1,655.00
+	Labor cost per hour	\$85.00	\$85.00
r event	Time to complete replacement (hrs)	9 (coil and motor)	1.5 (ED2 board)
ber	# of workers required for replacement	2	2
Cost	Material cost	\$1,250.00 (coil and motor)	\$1,400.00 (ED2 board)
Lifetime mair	ntenance costs	\$8,340.00	\$4,965.00

Lifetime change-out cost savings: \$3,375.00



Optional Services

ABB can support its customers with hands-on, factory authorized training for all new installations. This training is intended for up to 10 technicians on-site to train them on the proper operation and safety requirements of their new gear. The duration and content of the class can be customized based on the experience and background of the attending technicians. The classes are led by a highly skilled, factory trained field service technician. Additional training courses are available based on customer need, such as preventive maintenance, complete refurbishment, relay coordination, etc. ABB will design the program around customer requirements.

ABB offers installation and commissioning, utilizing its factory trained service team, for all its products at competitive rates. ABB works with its customers to determine the level of support and installation schedule to fit their specific needs. ABB will waive the fee for a one day hands-on training when the ABB service team is used to support installation.

ABB also offers a preventive maintenance program at factory recommended intervals to increase the reliability and service life of your new gear. Choosing an ABB preventive maintenance program may allow ABB to extend the warranty on your equipment.



Approval Drawings

Approval drawings, if requested or required, will be supplied within 4 weeks ARO. Manufacturing lead time is based upon timely return of approval drawings from customer within two (2) weeks of receipt of drawings. On orders requiring "hold for release to manufacturing until receipt of approval drawings", the quoted lead time commences on the date ABB receives the approved drawings.

Shipment Schedule

Contract drawings, information submittals, manufacturing, and shipment schedules will follow the outline below and is contingent on customer approval in the time frame indicated:

- I. Orders with Drawing Approval
 - Approval Drawings 3 weeks after receipt of ABB approved order
 - Customer drawing approval time 2 weeks to keep order timeline on schedule
 - Product ready for shipment 15 weeks after return of all approval drawings with customer release for manufacture
 - Delivery 1-2 weeks
 - Total lead time: 20-21 weeks
- II. Orders with existing bill of material, no bill of material changes and no approval drawings (duplicate orders)
 - Manufacturing time 15 weeks after receipt of ABB approved order
 - Delivery 1-2 weeks
 - Total lead time: 16-17 weeks

All customer provided data and requirement must be finalized at the time of purchase order placement. Revision to contract requirements may result in schedule changes and delays. All lead-times are subject to change based on prior sales and loaded factory capacity, please contact factory for actual lead-times at time of order placement.

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: Enter Date Here, 2021

TITLE:

Agreement with Trench Limited for the purchase of 138kV Coupling Capacitor Voltage Transformers

SUMMARY:

The Agreement with Trench Limited (Trench), authorizes Trench to provide 138kV Coupling Capacitor Voltage Transformers (CCVT's) for use at the City's new 138kV Canal Transmission Switchyard at a cost not to exceed \$119,925. The CCVT's have been identified as critical components for the City's electric utility System Hardening and Reliability Improvement Projects (SHRIP) and for which bonds were sold in November 2020.

BACKGROUND AND JUSTIFICATION:

In 2021, the City issued Invitation to Bid (IFB 21-211) for the procurement of 138kV CCVT's for use at the City's new 138kV Canal Transmission Switchyard. A total of two (2) bids were received and evaluated. Trench was found to be the most responsive and responsible bidder and was recommended for the award. The Term of the Agreement is for three (3) years, with two (2) single-year renewal options with a not-to-exceed value of \$119,925.

Over the past year the Electric Utility has been working with engineering teams from Power Engineers and FP&L on the design and material procurement for the new 138kV Canal Transmission Switchyard. The capacitive voltage transformers are used to convert high transmission line voltage to a standardized low and easily measurable values, which will be used for metering, protection and control of the high voltage system. As such, the need for accurate and reliable voltage transformation is essential. The reliability and security of Trench capacitive voltage transformers is based on over 50 years of innovation with units operating under a wide range of environmental conditions. Capacitive voltage transformers also ensure suitable electrical insulation between high voltage and low voltage measuring equipment.

To continue with the SHRIP program, the City is requesting the purchase of fifteen (15) CCVTs to be installed at the new 138kV Canal Transmission Switchyard.

MOTION:

Move to approve/disapprove the Agreement with Trench Limited for the purchase of 138kV Coupling Capacitor Voltage Transformers at a cost not to exceed \$119,925.

ATTACHMENT(S):

Fiscal Impact Analysis Trench Agreement

FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures Operating Expenditures External Revenues Program Income In-kind Match	\$119,925 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Net Fiscal Impact	\$119,925	0	0	0	0
No. of Addn'l Full-Time Employee Positions	0	0	0	0	0

B. Recommended Sources of Funds/Summary of Fiscal Impact: Funds have been identified in account No. 421-6034-531-63.16, Project SH2001.

Account	Account	Project	FY22	Current	Budget	Agenda	Balance
Number	Description	Number	Budget	Balance	Transfer	Expenditure	
421-6034- 531-63.16	Improve Other than Build / Infrastructure	SH2001	\$7,000,000	\$5,771,503		\$119,925	\$5,651,578

AGREEMENT FOR GOODS AND SERVICES (138kV Coupling Capacitor Voltage Transformers)

THIS AGREEMENT ("Agreement") is made this <u>17/11/21</u> day, between the **City of Lake Worth Beach**, a Florida municipal corporation ("CITY"), with its office located at 7 North Dixie Highway, Lake Worth Beach, Florida 33460, and **Trench Limited** with its principal office located at 1865 Clements Road Pickering, Ontario L1W 3R8 Canada, ("CONTRACTOR").

RECITALS

WHEREAS, the CITY is a municipal corporation organized and existing pursuant to the Charter and the Constitution of the State of Florida; and

WHEREAS, the CITY issued Invitation for Bid #21-211 for 138kV Coupling Capacitor Voltage Transformers ("IFB"), which IFB is not attached but incorporated by the reference into this Agreement; and

WHEREAS, the City received two (2) responses to the IFB; and

WHEREAS, the CONTRACTOR was found to be the lowest, responsive and responsible bidder and was recommended for the award; and

WHEREAS, the CITY desires to accept the CONTRACTOR's bid prices in order for CONTRACTOR to provide the goods and services to the CITY as set forth herein pursuant to the terms and conditions of this Agreement; and

WHEREAS, the CONTRACTOR further warrants that it is experienced and capable of performing the tasks hereunder in a professional and competent manner; and

WHEREAS, the CITY finds entering this Agreement with the CONTRACTOR as described herein serves a valid public purpose.

NOW THEREFORE, the CITY hereby engages the CONTRACTOR, and in consideration of the mutual promises herein contained, the sufficiency of which is hereby acknowledged by both parties, the parties agree as follows:

1. TERM

1.1 The term shall commence upon the approval of this Agreement by the City Commission. The CONTRACTOR agrees to provide all goods and services required under this Agreement for the period of up to three (3) consecutive years for the delivery of the 138kV Coupling Capacitor Voltage Transformers as further described in the IFB. The City reserves the right if agreed to with CONTRACTOR to renew this Agreement for two (2) additional one (1) year periods dependent on annual appropriation of the funds by the City Commission. During the renewal option(s), the CITY may utilize this

Agreement to purchase additional 138kV Coupling Capacitor Voltage Transformers unit(s). The CONTRACTOR agrees to provide all goods and services required under this Agreement as per the terms and timelines provided in the IFB.

2. SCOPE OF SERVICES/WORK

2.1 The scope of services/work (specifications) set forth in the IFB details the supply and delivery of 138kV Coupling Capacitor Voltage Transformers for the City's Electric Utility. All goods shall be delivered in accordance with this Agreement and the IFB. Quantities of the materials are indicated in the IFB (including the IFB's "Scope of Services/Work") and shall be used for the furnishing and delivery of 138kV Coupling Capacitor Voltage Transformers units. The CITY may request additional units and modifications to additional units the CITY desires to purchase and the CITY will seek a proposal from the CONTRACTOR based on such modifications.

2.2 The CONTRACTOR represents to the CITY that all goods provided and services performed under this Agreement shall be in accordance with accepted and established trade practices and procedures recognized in the CONTRACTOR's trade in general and that the materials shall conform to the highest standards and in accordance with this Agreement.

2.3 The CONTRACTOR represents that it is licensed to do business in the State of Florida and holds and will maintain all applicable licenses required for the goods and services to be completed under this Agreement. The CONTRACTOR further warrants its capability and experience to perform the services provided for herein in a professional and competent manner.

2.4 The services shall be performed by the CONTRACTOR or under its supervision and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under the state and local law to perform such services. All of the CONTRACTOR's personnel (and all subcontractors), while on CITY premises, shall comply with all CITY requirements governing safety, conduct and security.

2.5 The goods shall be provided and the services shall be completed in accordance with the terms and conditions set forth in this Agreement.

3. INDEPENDENT CONTRACTOR; USE OF AGENTS OR ASSISTANTS

3.1 The CONTRACTOR is and shall be, in the performance of the services under this Agreement, an independent contractor, and not an employee, agent, or servant of the CITY. All persons engaged in any of the services performed pursuant to this Agreement shall at all times, and in all places, be subject to the CONTRACTOR's sole direction, supervision, and control. The CONTRACTOR shall exercise control over the means and manner in which it and its employees perform the services.

3.2 To the extent reasonably necessary to enable the CONTRACTOR to perform the scope of services/work, the CONTRACTOR shall be authorized to engage the services of any agents or assistants which it may deem proper, and may further employ, engage, or retain the services of such other persons or corporations to aid or assist in the proper

performance of its duties. All costs of the services of, or expenses incurred by, such agents or assistants shall be paid by the CONTRACTOR.

4. MATERIALS

4.1 The CONTRACTOR shall provide all materials as more specifically set forth in the Scope of Services/Work or as reasonably necessary to accomplish the services unless otherwise specified in writing by the CITY.

5. FEE AND ORDERING MECHANISM

5.1 The CITY shall utilize a City Purchase Order for the ordering of the 138kV Coupling Capacitor Voltage Transformers unit(s) under this Agreement (not to exceed 15 units during the initial three (3) year term); however, the terms and conditions of the City Purchase Order shall not apply.

5.2 Should the CITY require additional 138kV Coupling Capacitor Voltage Transformers Unit(s), the CITY and CONTRACTOR will prepare and execute a written amendment to this Agreement setting forth the additional materials and/or services and the total cost for the same prior to any such additional materials or services being provided by the CONTRACTOR.

5.3 CONTRACTOR shall not exceed amounts expressed in any CITY issued Purchase Order or amendment to this Agreement for the purchase of the 138kV Coupling Capacitor Voltage Transformer Unit(s). The CITY's Fiscal Year ends on September 30th of each calendar year. Except for purchases authorized in a prior fiscal year and fully appropriated and funded, the CITY cannot authorize the purchase of additional goods or services beyond September 30th of each calendar year, prior to the annual budget being approved by the CITY's City Commission.

6. MAXIMUM COSTS

6.1 The CITY shall compensate the CONTRACTOR in accordance with the CONTRACTOR's bid prices, which are attached hereto as **Exhibit "A"**. The total cost to be paid by the CITY to the CONTRACTOR if the CITY orders the initial fifteen (15) 138kV Coupling Capacitor Voltage Transformer units shall not exceed \$119,925.00 (One Hundred Nineteen Thousand Nine Hundred Twenty Five Dollars). If the CITY purchases any additional unit(s) from the CONTRACTOR, the not to exceed amount for those additional units shall be by an amendment(s) to this Agreement.

7. INVOICE

7.1 The CONTRACTOR shall submit an itemized invoice to the CITY upon delivery and final acceptance of the 138kV Coupling Capacitor Voltage Transformer unit(s). Final acceptance occurs when all goods and services have been provided and completed by the CONTRACTOR and accepted by the CITY. The CONTRACTOR shall be paid by the CITY within thirty (30) days of receipt of an approved invoice for all goods and services for the 138kV Coupling Capacitor Voltage Transformer unit(s). Invoicing for additional units shall be addressed for each additional unit(s) in the amendment to this Agreement.

7.2 If the CITY disputes any invoice or part of an invoice, CITY shall notify the CONTRACTOR within a reasonable time after receipt of the invoice. CITY reserves the right to off-set, reduce or withhold any payment to the CONTRACTOR until the dispute is resolved.

8. AUDIT BY CITY

8.1 The CONTRACTOR shall permit the CITY, or any authorized representatives of the CITY, at all reasonable times, access to and the right to examine all records, books, papers or documents related to the CONTRACTOR's performance under this Agreement including, but not limited to, expenses for sub-contractors, agents or assistants, direct and indirect charges for services performed and detailed documentation for all such services performed or to be performed under this Agreement.

9. COPIES OF DATA/DOCUMENTS

9.1 Copies or original documents prepared by the CONTRACTOR in relation to services associated with this Agreement shall be provided to the CITY. Data collected, stored, and/or provided shall be in a form acceptable to the CITY and agreed upon by the CITY.

10. OWNERSHIP

10.1 Each and every report, draft, work product, map, record, and other document reproduced, prepared, or caused to be prepared by the CONTRACTOR pursuant to or in connection with this Agreement shall be the exclusive property of the CITY.

11. WRITTEN AUTHORIZATION REQUIRED

11.1 The CONTRACTOR shall not make changes in the Scope of Services/Work or good or services to be provided or perform any additional services or provide any additional goods under this Agreement without first obtaining written authorization from the CITY for such additional services or goods. Additional services or goods provided without written authorization shall be done at the CONTRACTOR's sole risk and without payment from the CITY.

12. DEFAULTS, TERMINATION OF AGREEMENT

12.1 If the CONTRACTOR fails to timely provide the goods and/or perform the services or has failed in any other respect to satisfactorily perform in accordance with this Agreement; or, is in material breach of a term or condition of this Agreement, the City Manager or designee may give written notice to the CONTRACTOR specifying the

default(s) to be remedied. Such notice shall set forth a reasonable timeframe for correcting the default(s) and any suggested corrective measures. If the CONTRACTOR does not remedy the default(s) within the timeframe provided in the CITY's notice or commence good faith steps to remedy the default to the reasonable satisfaction of the CITY, the CITY may take such action to remedy the default and all expenses related thereto shall be borne by the CONTRACTOR including, without limitation, utilization of another contractor to provide for such services and all of the CITY's legal fees; and/or, the CITY may withhold any money due or which may become due to the CONTRACTOR for such expense and/or services related to the claimed default. Alternatively, or in addition to the foregoing, if after three (3) business days the CONTRACTOR has not remedied defaults or commenced good faith steps to remedy defaults to the satisfaction of the CITY, the CITY may elect to terminate this Agreement. No cancellation fee or other compensation shall be paid by the CITY for de-mobilization, take-down, disengagement, wind-down, lost profits, or other costs incurred due to termination of this Agreement under this paragraph.

12.2 Notwithstanding paragraph 12.1, the CITY reserves the right and may elect to terminate this Agreement at any time, with or without cause. At such time, the CONTRACTOR would be compensated only for the goods and/or services which have been satisfactorily completed to the date of termination. No compensation shall be paid for de-mobilization, take-down, disengagement, wind-down, lost profits, or other costs incurred due to termination of this Agreement under this paragraph.

12.3 If the CITY fails to timely perform in accordance with this Agreement; or, is in material breach of a term or condition of this Agreement, the CONTRACTOR may give written notice to the CITY specifying the default(s) to be remedied. Such notice shall set forth a reasonable timeframe for correcting the default(s) and any suggested corrective measures. If the CITY does not remedy the default(s) within the timeframe provided in the CONTRACTOR's notice or commence good faith steps to remedy the default to the reasonable satisfaction of the CONTRACTOR, the CONTRACTOR may take such action to remedy the default and all expenses related thereto shall be borne by the CITY; and/or, the CONTRACTOR may withhold any services. Alternatively, or in addition to the foregoing, if after three (3) business days the CITY has not remedied defaults or commenced good faith steps to remedy defaults to the satisfaction of the CONTRACTOR, the CONTRACTOR, the CONTRACTOR, the CONTRACTOR, the CONTRACTOR may elect to terminate this Agreement.

13. INSURANCE

13.1. Prior to commencing any services, the CONTRACTOR shall provide certificates evidencing insurance coverage as required hereunder. All insurance policies shall be issued by companies authorized to do business under the laws of the State of Florida. The Certificates shall clearly indicate that the CONTRACTOR has obtained insurance of the type, amount, and classification as required for strict compliance with this Section and that no material change or cancellation of the insurance shall be effective without thirty (30) days' prior written notice to the CITY. Failure to comply with the foregoing requirements shall not relieve the CONTRACTOR of its liability and obligations under this

Contract. All insurance, other than Workers' Compensation, required hereunder shall specifically include the "City of Lake Worth Beach" as an "Additional Insured" on a primary, non-contributing basis, and the CONTRACTOR shall provide additional insured endorsements section of Certificates of Insurance.

13.2. The CONTRACTOR shall maintain, during the life of this Contract, commercial general liability, including contractual liability insurance in the amount of \$1,000,000 per occurrence (\$2,000,000 aggregate) to protect the CONTRACTOR from claims for damages for bodily and personal injury, including wrongful death, as well as from claims of property damages which may arise from any operations under this Contract, whether such operations be by the CONTRACTOR or by anyone directly employed by or contracting with the CONTRACTOR.

13.3. The CONTRACTOR shall maintain, during the life of this Contract, comprehensive automobile liability insurance in the minimum amount of \$1,000,000 combined single limit for bodily injury and property damages liability to protect the CONTRACTOR from claims for damages for bodily and personal injury, including death, as well as from claims for property damage, which may arise from the ownership, use, or maintenance of owned and non-owned automobiles, including rented automobiles whether such operations be by the CONTRACTOR or by anyone directly or indirectly employed by the CONTRACTOR.

13.4. The CONTRACTOR shall maintain, during the life of this Contract, Workers' Compensation Insurance and Employer's Liability Insurance for all employees as required by Florida Statutes.

14. WAIVER OF BREACH

14.1 The waiver by either party of any breach of any provision of this Agreement shall not operate or be construed as a waiver of any subsequent breach of that same or any other provision.

15. INDEMNITY

15.1 The CONTRACTOR shall indemnify, defend and hold harmless, to the maximum extent permitted by law, the CITY and its officers, agents, employees and representatives, from and against any and all liability, suit, actions, proceedings, judgments, claims, losses, liens, damages, injuries (whether in contract or in tort, including personal injury, accidental death, patent infringement or property damage, and regardless, of whether the allegations are false, fraudulent or groundless), costs and expenses (including attorney's fees, litigation, arbitration, mediation, appeal expenses) to the extent arising out of or alleged to have arisen out of the acts, omissions or neglect of the CONTRACTOR or any of its agents, employees, subcontractors or by anyone the CONTRACTOR directly or indirectly employed.

15.2 The CONTRACTOR's obligation to indemnify, defend and hold harmless shall remain in effect and shall be binding upon the CONTRACTOR whether such injury or damage shall accrue, or may be discovered, before or after termination of this Agreement.

15.3 Compliance with any insurance requirements required elsewhere in this Agreement shall not relieve CONTRACTOR of its liability and obligation to defend, hold harmless and indemnify the CITY as set forth in this section.

15.4 Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the CITY or CONTRACTOR. Further, nothing contained in this Agreement shall be construed or interpreted as consent by the CITY to be sued, nor as a waiver of sovereign immunity beyond the waiver provided in section 768.28, Florida Statutes, as amended from time to time.

15.5 The CONTRACTOR's failure to comply with this section's provisions shall constitute a material breach upon which the CITY may immediately terminate or suspend this Agreement.

16. ENTIRE AGREEMENT AND ORDER OF PRECEDENCE

16.1 This Agreement consists of the terms and conditions provided herein; the IFB (including all specifications, exhibits and addenda attached thereto or referenced therein); and, the CONTRACTOR's bid prices (Exhibit "A"). To the extent that there exists a conflict between this Agreement and the remaining documents, the terms, conditions, covenants, and/or provisions of this Agreement shall prevail with the IFB (including all specifications, exhibits and addenda attached thereto) next taking precedence; however, the CONTRACTOR's bid prices (Exhibit "A") shall take precedence over the IFB. Wherever possible, the provisions of such documents shall be construed in such a manner as to avoid conflicts between provisions of the various documents.

16.2 This Agreement supersedes any and all other Agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereof, and no other Agreement, statement, or promise relating to the subject matter of this Agreement which is not contained herein shall be valid or binding. This Agreement may be executed electronically.

17. ASSIGNMENT

17.1 Nothing under this Agreement shall be construed to give any rights or benefits to any party other than the CITY and the CONTRACTOR. All duties and responsibilities under this Agreement shall be for the sole and exclusive benefit of the CITY and the CONTRACTOR and not for the benefit or any other party. The CONTRACTOR shall not assign any right or interest in this Agreement, and shall not delegate any duty owned, without the CITY's prior written consent. Any attempted assignment or delegation shall be void and totally ineffective for all purposes and shall constitute a material breach upon which the CITY may immediately terminate or suspend this Agreement.

17.2 In the event the CITY consents to an assignment or delegation, the assignee, delegate, or its legal representative shall agree in writing to personally assume, perform, and be bound by this Agreement's covenants, conditions, obligations and provisions.

18. SUCCESSORS AND ASSIGNS

18.1 Subject to the provision regarding assignment, this Agreement shall be binding on the heirs, executors, administrators, successors, and assigns of the respective parties.

19. WAIVER OF TRIAL BY JURY

19.1 TO ENCOURAGE PROMPT AND EQUITABLE RESOLUTION OF ANY LITIGATION, EACH PARTY HEREBY WAIVES ITS RIGHTS TO A TRIAL BY JURY IN ANY LITIGATION RELATED TO THIS AGREEMENT.

20. GOVERNING LAW AND REMEDIES

20.1 The validity of this Agreement and of any of its terms or provisions, as well as the rights and duties of the parties hereunder, shall be governed by the laws of the State of Florida and venue shall be in Palm Beach County, Florida.

20.2 No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

21. TIME IS OF THE ESSENCE

21.1 Time is of the essence in the completion of the Scope of Services/Work as specified herein.

22. NOTICES

22.1 All notices hereunder must be in writing and, unless otherwise provided herein, shall be deemed validly given on the date when personally delivered to the address indicated below; or on the third (3rd) business day following deposit, postage prepaid, using certified mail, return receipt requested, in any U.S. postal mailbox or at any U.S. Post Office; or when sent via nationally recognized overnight courier to the address indicated below. Should the CITY or the CONTRACTOR have a change of address, the other party shall immediately be notified in writing of such change, provided, however, that each address for notice must include a street address and not merely a post office box. All notices, demands or requests from the CONTRACTOR to the CITY shall be given to the CITY address as follows:

City Manager City of Lake Worth Beach 7 North Dixie Highway Lake Worth Beach, Florida 33460

All notices, demands or requests from the CITY to the CONTRACTOR shall be given to the CONTRACTOR address as follows:

Trench Limited Attn: Gustavo Lopez-Benitez 1885 Clements Road Pickering, Ontario Canada L1W 3R8

23. SEVERABILITY

23.1 Should any part, term or provision of this Agreement or any document required herein to be executed be declared invalid, void or unenforceable, all remaining parts, terms and provisions hereof shall remain in full force and effect and shall in no way be invalidated, impaired or affected thereby.

24. DELAYS AND FORCES OF NATURE

24.1 The CONTRACTOR shall not be considered in default by reason of a delay in timely performance if such delay and failure arises out of causes reasonably beyond the control of the CONTRACTOR or its subcontractors and without their fault or negligence. Upon the CONTRACTOR's request, the CITY shall consider the facts and extent of any such delay and failure to timely perform the services for reason beyond the control of the CONTRACTOR and, if the CONTRACTOR's delay and failure to timely perform was without it or its subcontractors' fault or negligence, as determined by the CITY in its sole discretion, the time of completion shall be extended for any reasonable time that the CITY, in its sole discretion, may decide; subject to the CITY'S rights to change, terminate, or stop any or all of the services at any time. If the CONTRACTOR is delayed at any time in the progress of the services by any act or neglect of the CITY or its employees, or by any other contractor employed by the CITY, or by changes ordered by the CITY or in an unusual delay in transportation, unavoidable casualties, or any causes beyond the CONTRACTOR'S control, or by delay authorized by the CITY pending negotiation or by any cause which the CITY, in its sole discretion, shall decide justifies the delay, then the time of completion shall be extended for any reasonable time the CITY, in its sole discretion, may decide. No extension of time shall be made for any delay occurring more than five (5) days before a claim therefore is made in writing to the CITY. In the case of continuing cause of delay, only one (1) claim is necessary. The CONTRACTOR's sole remedy for a delay in completion of the services for any reason will be an extension of time to complete the services and CONTRACTOR specifically waives any right to seek any monetary damages or losses for a delay in completion of the services, including, but not limited to, waiving any right to seek monetary amounts for lost profits, additional

overhead, salaries, lost productivity, efficiency losses, or any other alleged monetary losses which may be allegedly suffered by CONTRACTOR due to a delay in completion of the services.

24.2 Neither party shall be considered in default in the performance of its obligations hereunder or any of them, if such obligations were prevented or delayed by any cause, existing or future beyond the reasonable control of such party which include but are not limited to acts of God, labor disputes or civil unrest.

25. COUNTERPARTS

25.1 This Agreement may be executed in counterparts, each of which shall be an original, but all of which shall constitute one and the same document. Each of the parties shall sign a sufficient number of counterparts, so that each party will receive a fully executed original of this Agreement.

26. LIMITATIONS OF LIABILITY

26.1 Under no circumstances shall either party be liable to the other for any consequential, incidental, special, punitive, or any other form of indirect or non-compensatory damages. There shall be no other limitation of liability between the parties or under this Agreement.

27. PUBLIC ENTITY CRIMES

27.1 CONTRACTOR acknowledges and agrees that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public services; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform services as a contractor, supplier or sub-contractor under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statues, for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list. CONTRACTOR will advise the CITY immediately if it becomes aware of any violation of this statute.

28. PREPARATION

28.1 This Agreement shall not be construed more strongly against either party regardless of who was more responsible for its preparation.

29. PALM BEACH COUNTY INSPECTOR GENERAL

29.1 In accordance with Palm Beach County ordinance number 2011-009, the CONTRACTOR acknowledges that this Agreement may be subject to investigation and/or audit by the Palm Beach County Inspector General. The CONTRACTOR has reviewed Palm Beach County ordinance number 2011-009 and is aware of its rights and/or obligations under such ordinance.

30. ENFORCEMENT COSTS

30.1 All parties shall be responsible for their own attorneys' fees, court costs and expenses if any legal action or other proceeding is brought for any dispute, disagreement, or issue of construction or interpretation arising hereunder whether relating to the Contract's execution, validity, the obligations provided therein, or performance of this Contract, or because of an alleged breach, default or misrepresentation in connection with any provisions of this Contract.

31. PUBLIC RECORDS

CONTRACTOR shall comply with Florida's Public Records Laws, Chapter 119, Florida Statutes, and, if it is acting on behalf of the CITY as provided under section 119.011(2), the CONTRACTOR specifically agrees to:

- (a) Keep and maintain public records required by the CITY to perform the services under this Agreement.
- (b) Upon request from the CITY's custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable tie at a cost that does not exceed the cost provided in this Chapter 119, Florida Statutes, or as otherwise provided by law.
- (c) Ensure that said public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement, if the CONTRACTOR does not transfer the records to the CITY.
- (d) Upon the completion of the Agreement, transfer, at no cost, to the CITY all public records in possession of the CONTRACTOR or keep and maintain public records required by the CITY to perform the services. If the CONTRACTOR transfers all public records to the CITY upon completion of the Agreement, the CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the CONTRACTOR keeps and maintains public records upon completion of the Agreement, the CONTRACTOR keeps and maintains public records upon completion of the Agreement, the CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the City.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (561) 586-1660, <u>CITYCLERK@LAKEWORTHBEACHFL.GOV</u>, OR 7 NORTH DIXIE HIGHWAY, LAKE WORTH BEACH, FLORIDA 33460.

32. COPYRIGHTS AND/OR PATENT RIGHTS

32.1 CONTRACTOR warrants that there has been no violation of copyrights and/or patent rights in the manufacturing, producing or selling of the goods, shipped or ordered, as a result of this Agreement and the CONTRACTOR agrees to hold the City harmless from any and all liability, loss, or expense occasioned by any such violation.

33. COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH

33.1 CONTRACTOR certifies that all material, equipment, etc., contained in this bid meets all OSHA requirements. CONTRACTOR further certifies that, if the material, equipment, etc., delivered is subsequently found to be deficient in any OSHA requirements in effect on date of delivery, all costs necessary to bring the material, equipment, etc. into compliance with the aforementioned requirements shall be borne by the CONTRACTOR.

34. FEDERAL AND STATE TAX

34.1 The CITY is exempt from Federal Tax and State Tax for Tangible Personal Property. The Procurement Official will provide the CONTRACTOR with a signed exemption certificate submitted by the CONTRACTOR. CONTRACTOR shall not be exempted from paying sales tax to their suppliers for materials to fulfill contractual obligations with the CITY, nor shall CONTRACTOR be authorized to use the City's Tax Exemption Number in securing such materials.

35. **PROTECTION OF PROPERTY**

35.1 The CONTRACTOR shall at all times guard against damage or loss to the property of the CITY or of other vendors or contractors and shall be held responsible for replacing or repairing any such loss or damage. The CITY may withhold payment or make such deductions as deemed necessary to insure reimbursement or replacement for loss or damage to property through negligence of the successful CONTRACTOR or its agents. The CONTRACTOR shall be responsible to safeguard all of their property such as tools and equipment while on site. The CITY will not be held responsible for any loss of CONTRACTOR property due to theft or vandalism.

36. DAMAGE TO PERSONS OR PROPERTY

36.1 The responsibility for all damage to person or property arising out of or on account of services done under this Contract shall rest upon the CONTRACTOR, and he/she shall save the CITY and political unit thereof harmless from all claims made on account of such damages.

37. WARRANTY

37.1 CONTRACTOR warrants and guarantees to the CITY that gods provided and services performed under this Agreement shall be in accordance with the Agreement and the other documents specifically included in this Agreement. CONTRACTOR warrants that all goods, materials, and parts supplied under this Agreement shall be free from defects for a minimum of 18 months from the final acceptance of the services. CONTRACTOR guarantees that all services performed under this Agreement will be free from defects for a minimum of 18 months from the final acceptance of the services. CONTRACTOR shall provide to the CITY any and all manufacturers' warranties for the goods and services being provided under this Agreement. CONTRACTOR agrees to pay for all transportation and handling costs of returning any equipment or the unit(s), if required, for repair or replacement. If a unit(s) must be returned, CONTRACTOR, shall provide a replacement unit(s) for the duration.

38. SCRUTINIZED COMPANIES

38.1 Contractor certifies that it and its subcontractors are not on the Scrutinized Companies that Boycott Israel List and are not engaged in the boycott of Israel. Pursuant to section 287.135, Florida Statutes, the City may immediately terminate this Agreement at its sole option if the Contractor or any of its subcontractors are found to have submitted a false certification; or if the Contractor or any of its subcontractors, are placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of this Agreement.

38.2 If this Agreement is for one million dollars or more, the Contractor certifies that it and its subcontractors are also not on the Scrutinized Companies with Activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged in business operations in Cuba or Syria as identified in Section 287.135, Florida Statutes. Pursuant to Section 287.135, the City may immediately terminate this Agreement at its sole option if the Contractor, or any of its subcontractors are found to have submitted a false certification; or if the Contractor or any of its subcontractors are placed on the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or are or have been engaged with business operations in Cuba or Syria during the term of this Agreement.

38.3 The Contractor agrees to observe the above requirements for applicable subcontracts entered into for the performance of services under this Agreement.

38.4 The Contractor agrees that the certifications in this section shall be effective and relied upon by the City for the term of this Agreement, including any and all renewals.

38.5 The Contractor agrees that if it or any of its subcontractors' status changes in regards to any certification herein, the Contractor shall immediately notify the City of the same.

38.6 As provided in Subsection 287.135(8), Florida Statutes, if federal law ceases to authorize the above-stated contracting prohibitions then they shall become inoperative.

39. E-VERIFY

Pursuant to Section 448.095(2), Florida Statutes, beginning on January 1, 2021, CONTRACTOR shall:

39.1 Register with and use the E-Verify system to verify the work authorization status of all newly hired employees and require all subcontractors (providing services or receiving funding under this Agreement) to register with and use the E-Verify system to verify the work authorization status of all the subcontractors' newly hired employees; 39.2 Secure an affidavit from all subcontractors (providing services or receiving funding under this Agreement) stating that the subcontractor does not employ, contract with, or subcontract with an "unauthorized alien" as defined in Section 448.095(1)(k), Florida Statutes;

39.3 Maintain copies of all subcontractor affidavits for the duration of this Agreement and provide the same to the City upon request;

39.4 Comply fully, and ensure all of its subcontractors comply fully, with Section 448.095, Florida Statutes;

39.5 Be aware that a violation of Section 448.09, Florida Statutes (Unauthorized aliens; employment prohibited) shall be grounds for termination of this Agreement; and, 39.6 Be aware that if the City terminates this Agreement under Section 448.095(2)(c), Florida Statues, CONTRACTOR may not be awarded a contract for at least one (1) year after the date on which the Agreement is terminated and will be liable for any additional costs incurred by the City as a result of the termination of the Agreement.

40. SURVIVABILITY

40.1 Any provision of this Agreement which is of a continuing nature or imposes an obligation which extends beyond the term of this Agreement shall survive its expiration or earlier termination.

REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF the parties hereto have made and executed this Agreement for Goods and Services (138kV Coupling Capacitor Voltage Transformers) on the day and year first above written.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____ Betty Resch, Mayor

ATTEST:

By: _____

Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL SUFFICIENCY

Bruce T. Miller, Financial Services Director

By: ___

Glen J. Torcivia, City Attorney

CONTRACTOR: **Trench Limited**

By:

By: _____

[Corporate Seal]

Print Name: Selim Hostut

Title: TCI General Manager

Province of Ontario STATE OF COUNTY OF City of Riskering Scarborough

THE FOREGOING instrument was acknowledged before me by means of • physical presence or • Vonline notarization on this <u>17</u> day of <u>November</u> 2021. by <u>Selim Hostut</u>, as the <u>General Manager</u> Trench Limited, principle office located at 1865 Clements Road, Pickering, Ontario L1W3R8, Canda, who is personally known to me or who has produced _____ driver's licence as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.

Danny Hua	Danny Hua Ontario Paralegal, Notary Public & Commissioner Law Society of Ontario Licensee P17118
Notary	Public Signature
Declared remotely and virtually commissioned using secure electronic signatures via online video conference before me in Scarborough, ON, on the date herein, while the declarant was in Pickering, ON, in accordance with O. Reg 431/20, Administer Oath or Declaration Remotely, to the Ontario Commissioner for Taking Affidavits Act.	NOTARY
Page 15 of 16	PUBLIC /
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Exhibit "A" Contractor's Bid Prices

(B4)

IFB # 21-211 138kV COUPLING CAPACITOR VOLTAGE TRANSFORMERS

SCHEDULE OF UNIT PRICES

In order to evaluate the total bid amount, each Bidder must identify the unit prices for the materials set forth in the Scope of Services. The quantities below are estimated quantities. City does not guarantee a minimum order and reserves the right to adjust these quantities as considered in the best interest of the City. Prices shall be delivered FOB destination, City of Lake Worth Beach. The City will not accept bids that have no shipping prices included in their unit price. The bidder acknowledges that no additional payment will be made for adjustments in the quantities.

Unit firm price as specified, (F.O.B. destination, freight allowed and prepaid):

Description	Qty	Unit Price	Total
138kV Coupling Capacitor Voltage Transformer	15	7,995 USD	119,925 USD

DELIVERY

Delivery of the items shall be no later than April 8, 2022. Bidder shall provide delivery details below:

Shipping is scheduled after receipt of order.	22	Weeks
Shipping is scheduled after drawing approval.	18	Weeks

COUPLING CAPACITOR VOLTAGE TRANSFORMERS Details:

Manufacturer	Trench Limited
Type and Catalog No.	TEVP145
Weight, pounds	585 LBS
Height, inches	80 inches



Document History

SignNow E-Signature Audit Log



All dates expressed in MM/DD/YYYY (US)

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online@notarypro.ca notary@notarypro.ca (NotaryPro), selim.hostut@siemens-energy.com (NotaryPro)

CC:

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