



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

ROLL CALL:

PLEDGE OF ALLEGIANCE: led by Commissioner Kimberly Stokes

AGENDA - Additions / Deletions / Reordering:

PUBLIC PARTICIPATION OF NON-AGENDAED ITEMS AND CONSENT AGENDA:

APPROVAL OF MINUTES:

A. [September 28, 2021](#)

NEW BUSINESS:

- A. [Resolution No. 74-2021 – establishing the new Electric Utility Rates and Charges effective April 1, 2022](#)
- B. [Resolution No. 75-2021 -- establishing an In Community Solar Program](#)
- C. [Resolution No. 76-2021 -- requesting development of an energy conservation and energy efficiency program](#)

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)

**MINUTES
CITY OF LAKE WORTH BEACH
ELECTRIC UTILITY CITY COMMISSION MEETING
CITY HALL COMMISSION CHAMBER
TUESDAY, SEPTEMBER 28, 2021 - 6:00 PM**

The meeting was called to order by Mayor Resch on the above date at 6:02 PM in the City Commission Chamber located at City Hall, 7 North Dixie Highway, Lake Worth Beach, Florida.

ROLL CALL: (0:06) Present were Mayor Betty Resch; Vice Mayor Herman Robinson and Commissioners Sarah Malega, Christopher McVoy and Kimberly Stokes. Also present were Interim City Manager Juan Ruiz, City Attorney Christy L. Goddeau and City Clerk Melissa Ann Coyne.

PLEDGE OF ALLEGIANCE: (0:35) led by Commissioner Kimberly Stokes.

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

New Business B, Discussion of possible LWB Solar Energy Loan Fund (SELF) programs, was reordered to follow Presentation A. New Business C, Initial Discussion of setting objectives and policy for the Lake Worth Beach Electric Utility, was reordered to follow Presentation B.

Action: Motion made by Commissioner Stokes and seconded by Vice Mayor Robinson to approve the agenda as amended.

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

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

A. Presentation by Doug Coward, Chief Executive Officer of the non-profit Solar Energy Loan Fund, regarding low-interest home improvement loans for energy conservation and resiliency to middle and low-income homeowners (3:26)

NEW BUSINESS:

B. (reordered) Discussion of possible LWB Solar Energy Loan Fund (SELF) programs and associated potential LWB Energy Conservation/Energy Efficiency programs (15:31)

Action: Consensus to create a landing page on the City's website.

PRESENTATIONS:

B. Greener, Leaner and Smarter: Transforming the Electric Utility Industry presentation by Dan York, Ph.D., Fellow at the American Council for an Energy-Efficient Economy (43:18)

NEW BUSINESS:

C. (reordered) Initial Discussion of setting objectives and policy for the Lake Worth Beach Electric Utility (54:15)

PUBLIC PARTICIPATION OF NON-AGENDAED ITEMS AND CONSENT AGENDA:

APPROVAL OF MINUTES: (1:37:57)

Action: Motion made by Commissioner Malega and seconded by Commissioner McVoy to approve the following minutes:

A. August 31, 2021

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

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

There were no Consent Agenda items on the agenda.

PUBLIC HEARINGS:

There were no Public Hearings on the agenda.

UNFINISHED BUSINESS:

There were no Unfinished Business items on the agenda.

NEW BUSINESS:

A. Electric Utility Cost of Service Study and Proposed Rates (1:38:14)

Action: Consensus to bring the issue back by April 2022.

B. (reordered to follow Presentation A) Discussion of possible LWB Solar Energy Loan Fund (SELF) programs and associated potential LWB Energy Conservation/Energy Efficiency programs

C. (reordered to follow Presentation B) Initial Discussion of setting objectives and policy for the Lake Worth Beach Electric Utility

D. Agreement with DataProse, LLC for Utility Bill Printing and Mailing Services (3:38:44)

Action: Motion made by Commissioner Stokes and seconded by Commissioner McVoy to approve the Agreement with DataProse, LLC for Utility Bill Printing and Mailing Services.

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

E. Third Amendment to Task Order No. 3 with E.C. Fennell, PA., for additional engineering design services for Phase 1 & Phase 2 of the 1W05 circuit (3:42:30)

Action: Motion made by Commissioner Malega and seconded by Vice Mayor Robinson to approve the Third Amendment to Task Order No. 3 with E.C. Fennell, PA., for additional engineering design services for Phase 1 & Phase 2 of the 1W05 circuit.

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

F. First Amendment to Agreement with KVA, Inc., for the Main Yard Substation Prefabricated Control House (3:43:05)

Action: Motion made by Commissioner Malega and seconded by Commissioner Stokes to approve the First Amendment to Agreement with KVA, Inc., for the Main Yard Substation Prefabricated Control House.

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

G. First Amendment to Task Order No. 5 with Power Engineers, Inc. to complete additional engineering design for the new Canal 8-Bay Distribution Substation (3:44:53)

Action: Motion made by Commissioner McVoy and seconded by Vice Mayor Robinson to approve the First Amendment to Task Order No. 5 with Power Engineers, Inc. to complete additional engineering design for the new Canal 8-Bay Distribution Substation.

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

ADJOURNMENT: (3:45:24)

Action: Motion made by Commissioner Malega and seconded by Commissioner McVoy to adjourn the meeting at 9:48 PM.

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

Betty Resch, Mayor

ATTEST:

Melissa Ann Coyne, City Clerk

Minutes Approved: October 26, 2021

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

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: October 26, 2021

TITLE:

Resolution No. 74-2021 – establishing the new Electric Utility Rates and Charges effective April 1, 2022

SUMMARY:

Resolution 69-2021, approved on September 27, 2021, continued previously set Electric Utility Rates and Charges for Fiscal Year 2022 effective October 1, 2021 without changes from FY2021 amounts.

Resolution 74-2021 establishes new Electric Utility Rates and Charges effective April 1, 2022.

BACKGROUND AND JUSTIFICATION:

In order to achieve rate parity with the neighboring electric utility by February of 2018 the City reduced residential electric rates, which remain in effect today.

In 2020, the City of Lake Worth Beach contracted with Leidos Consulting Firm to conduct a comprehensive Cost of Service Rates Study and recommend adjustments to rates, where deemed advisable and in order to assure adequacy of revenues in covering costs.

On September 28, 2021, the Electric Utility department and Leidos' Staff presented the findings of the Cost of Service Rates Study to the City Commission for discussion and questions. The City Commission agreed by consensus to receive a formal request for new rates at the October 26, 2021 Commission meeting as proposed with an effective date of April 1, 2022.

MOTION:

Move to approve/disapprove Resolution No. 74-2021 establishing the new Electric Utility rates and charges effective April 1, 2022.

ATTACHMENT(S):

Fiscal Impact Analysis- N/A
Resolution 74-2021

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

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

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:

Section 1. Definitions: 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.

Section 2. 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. \$10.55 per month.
 - b. Energy Charge per kWh

	First 1,000 KWH's	Excess
Base Energy	0.07200	0.09280
Power Cost Adjustment	0.02950	0.03950
Total	0.10150	0.13180

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.

- 96 B. Regular Commercial Service (Schedule C-S)
 97 1. Designation: Regular Commercial Electric.
 98 2. Applicable: For commercial, industrial, and governmental use within the
 99 territory served by the Electric Distribution System of the City of Lake Worth
 100 Beach, as available and at the option of the City.
 101 3. Limitations: For consumers who own renewable energy facilities (such as wind,
 102 solar power or home fuel cells), resale of the electric energy is not permitted
 103 hereunder.
 104 4. Service: Single or three phase, 60 cycles and at any available standard
 105 voltage, at the option of the City of Lake Worth Beach.
 106 5. Monthly Rates:
 107 a. Customer Charge: A fixed charge based on the cost of preparing and
 108 delivering a bill which will be applied to each electric account receiving a
 109 bill. \$17.00 per month.
 110 b. Energy Charge per kWh.

	All kWhs
Base Energy	0.08200
Power Cost Adjustment	0.03160
Total	0.11360

- 112
 113 6. The rates listed above includes all administrative charges from the City of Lake
 114 Worth Beach.
 115 7. Purchased Power Cost Adjustment Charge:
 116 A. Purchased Power Cost Adjustment Charge will be applied as set forth in
 117 Section 3 below.
 118 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of
 119 Lake Worth Beach, Florida, municipal limits shall be charged as set forth in
 120 Section 4 below.
 121 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month for
 122 single phase service and \$100.00 per month for poly phase service.
 123
 124 C. Demand Commercial Service (Schedule CD-S)
 125 1. Designation: Demand Commercial Electric
 126 2. Applicable: For customers who qualifies for service under Schedule C-S above
 127 and has a peak demand of 25 kW or greater for three (3) consecutive months:
 128 3. Limitations: Auxiliary or stand-by service or resale not permitted hereunder.
 129 4. Service: Single or three phase, 60 cycles and at any available standard voltage,
 130 at the option of the City of Lake Worth Beach.
 131 5. Monthly Rates:
 132 a. Customer Charge: A fixed charge based on the cost of preparing and
 133 delivering a bill, which will be applied to each electric account receiving a
 134 bill. \$130.00 per month.
 135 b. Energy Charge per KWH
 136

137

	All kWhs	Demand - KW
Base Energy	0.04800	\$ 12.00
Power Cost Adjustment	0.03160	
Total	0.07960	\$12.00

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

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.

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

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.

- 182 6. Term of Contract: One year and thereafter until terminated at the option of either
 183 party by the giving of not less than thirty (30) days advance written notice of the
 184 effective date of termination.
- 185 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment
 186 Charge will be applied as set forth in Section 3 below.
- 187 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake
 188 Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4
 189 below.
- 190 9. Minimum Bill: The minimum bill for electric use shall be \$50.00 per month for single
 191 phase service and \$100.00 per month for poly phase service.
- 192
- 193 E. Time of Use Demand Commercial Service (Schedule CDT-S)
- 194 1. Designation: Time of Use Demand Commercial Service
- 195 2. Applicable: For commercial, industrial, and governmental use within the territory
 196 served by the Electric Distribution System of the City of Lake Worth Beach, as
 197 available and at the option of the City.
- 198 3. Limitations: For consumers who own renewable energy facilities (such as wind,
 199 solar power or home fuel cells), resale of the electric energy is not permitted
 200 hereunder.
- 201 4. Service: Single or three phase, 60 cycles and at any available standard 416
 202 voltage, at the option of the City of Lake Worth Beach.
- 203 5. Monthly Rates:
- 204 a. Customer Charge: A fixed charge based on the cost of preparing and delivering
 205 a bill which will be applied to each Electric account receiving a bill. \$140.00 per
 206 month.
- 207 b. Energy Charge:
- 208 i. Off Peak \$0.0620 per kWh
- 209 ii. On Peak \$0.2400 per kWh
- 210 iii. Demand Charge: \$7.00 per kW.
- 211 iv. Billing Demand: The maximum 15 minute measured demand in the
 212 month, subject to power factor adjustment.
- 213 v. Power Factor Adjustment: When demand is measured with a kW 438
 214 meter and customer's power factor in any month is below 95% the
 215 measured demand may be adjusted to 95% power factor.
- 216 vi. Determination of Off-Peak Period: October – May: The off-peak period is
 217 defined as the hours between 1:00 p.m. and 6:00 a.m., Monday through
 218 Friday and all day Saturday and Sunday. In addition, the following
 219 holidays will also be considered off-peak: New Year's Day, Memorial Day,
 220 Thanksgiving Day, and Christmas Day.
- 221 vii. June – September: The off-peak period is defined as the hours between
 222 7:00 p.m. and 2:00 p.m., Monday through Friday and all day Saturday and
 223 Sunday. In addition, the following holidays will also be considered off-
 224 peak: Independence Day and Labor Day. All other hours are considered
 225 on peak hours.
- 226 6. Term of Contract: One year and thereafter until terminated at the option of either
 227 party by the giving of not less than thirty (30) days advance written notice of the
 228 effective date of termination.
- 229 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment
 230 Charge will be applied as set forth in Section 3 below.

- 231 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake
- 232 Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4
- 233 below.
- 234 9. Minimum Bill: The minimum bill for electric use shall be \$140.00 per month.

235 F. Electric Vehicle Charging Level II (Schedule EV2-S)

- 236 1. Designation: Electric Vehicle Charging Level II
- 237 2. Applicable: For City owned public electric vehicle Level II charging stations.
- 238 a. None of the energy is used in any endeavor which sells or rents a
- 239 commodity or provides service for a fee.
- 240 b. Each point of delivery will be separately metered and billed.
- 241 c. Limitations: Auxiliary and stand-by generation or resale of the electric
- 242 energy not permitted hereunder.

243 3. Energy Charge per kWh

	All KWH's
Base Energy	0.07200
Power Cost Adjustment	0.02950
Total	0.10150

- 244 4. The rates listed above include all administrative charges from the City of Lake
- 245 Worth Beach.
- 246 5. Purchased Power Cost Adjustment Charge:
- 247 A. Purchased Power Cost Adjustment Charge will be applied as set forth in
- 248 Section 3 below.
- 249 6. Outside City Limits Surcharge: A surcharge for electric use outside the City of
- 250 Lake Worth Beach, Florida, municipal limits shall be charged as set forth in
- 251 Section 4 below.

252 G. Private Area Lighting (Schedule L-P)

- 253 1. Designation: Private Area Lighting
- 254 2. Applicable: For year-round outdoor security lighting of yards, driveways, walkways,
- 255 parking lots, parks, and other areas, under the following conditions:
- 256 a. Lights to be served hereunder shall be at locations that are easily and
- 257 economically accessible to the City of Lake Worth Beach equipment and
- 258 personnel for construction and maintenance.
- 259 b. Original location of lighting fixtures shall be by mutual agreement and shall not
- 260 be located so as to create a public nuisance.
- 261 c. Any relocation requested by customer after installation shall be made at
- 262 customer's expense. All new lighting units provided under this Schedule shall
- 263 be the high pressure sodium vapor (conservation lighting) type.
- 264 3. Limitations:
- 265 a. Auxiliary and stand-by generation or resale of the electric energy not permitted
- 266 hereunder.
- 267 b. The City of Lake Worth Beach, while exercising reasonable diligence at all
- 268 times to furnish service hereunder, does not guarantee continuous lighting and
- 269 will not be liable for damages for any interruption, deficiency or failure of service
- 270 and reserves the right to interrupt service at any time for necessary repairs to
- 271 lines or equipment.
- 272
- 273
- 274
- 275
- 276
- 277

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

292 Description Unit Cost per Month

293

294

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

- 295
- 296 7. Purchased Power Cost Adjustment Charge: A Purchased Power Cost Adjustment
 297 Charge will be applied as set forth in Section 3 below.
- 298 8. Outside City Limits Surcharge: A surcharge for electric use outside the City of Lake
 299 Worth Beach, Florida, municipal limits shall be charged as set forth in Section 4
 300 below.

301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329

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 Light Unit on Existing Pole	\$9.33
250 Watt (27,500 Lumen) High Pressure Sodium Vapor Street Light Unit on Existing Pole	\$12.26
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

330
331
332
333

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.

Section 3. Purchased Power Cost Adjustment (PCA): 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.

Section 4. Surcharge For Service Outside The Municipal Limits: 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.

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

389
390 Section 6. All resolutions or parts of resolutions in conflict herewith are expressly
391 repealed.

392
393 Section 7. If any provision of this resolution or the application thereof to any person or
394 circumstance is held invalid, the invalidity shall not affect other provisions or applications
395 of the resolution, which can be given effect without the invalid provision or application,
396 and to this end the provisions of this resolution are declared severable.

397
398 Section 8. This resolution shall be in effect for billings issued on or after April 1, 2022.

399
400 The passage of this resolution was moved by xxx, seconded by xxx and upon
401 being put to a vote, the vote was as follows:

- 402
- 403 Mayor Betty Resch
- 404 Vice Mayor Herman Robinson
- 405 Commissioner Sarah Malega
- 406 Commissioner Christopher McVoy
- 407 Commissioner Kimberly Stokes
- 408
- 409

410 The Mayor thereupon declared this resolution duly passed and enacted on the
411 ____ day of _____ 2021.

412 LAKE WORTH BEACH CITY COMMISSION

413
414
415
416 By: _____
417 Betty Resch, Mayor

418 ATTEST:

419
420
421 _____
422 Melissa Ann Coyne, City Clerk

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: October 26, 2021

TITLE:

Resolution No. 75-2021 -- establishing an In Community Solar Program

SUMMARY:

By establishing this program, the resolution will (1) create a highly visible presence of renewable energy production and storage within the Lake Worth Beach community and (2) offer Lake Worth Beach Electric Utility customers the option of sourcing their electricity from 100% renewable energy through a special rate class or program subscription.

BACKGROUND AND JUSTIFICATION:

The competitive procurement program proposed in this resolution builds upon recent Lake Worth Beach Electric Utility advances toward clean energy. The proposed procurement program builds upon these advances through increasing visible clean energy generation within the city, through education, and by offering ratepayers of all incomes a fee-supported 100% solar option.

MOTION:

Move to approve/disapprove Resolution No. 75-2021 establishing an In Community Solar Program.

ATTACHMENT(S):

Fiscal Impact Analysis – N/A
Overview
Resolution 75-2021

Additional BackUp Information for Resolution on “In Community Solar”

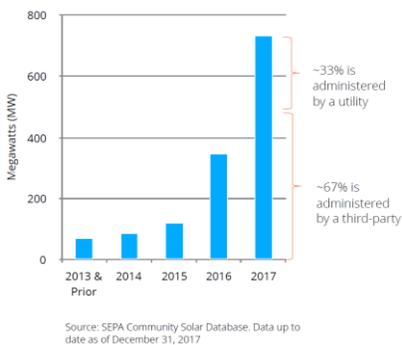
October 26, 2021

Commissioner McVoy

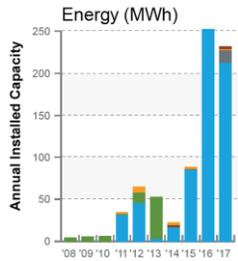
Overview

The **In Community Solar** program proposed here grew out of City Commission discussions at the September 28, 2021 Electric Utility meeting. It includes four components based on increasingly adopted, industry best practices, namely, solar installations visible to the community, a community solar option for residents and businesses, “Battery Energy Storage Systems” (BESS), and web/app-based real-time digital outreach. Implementation of an **In Community Solar** program, combined with an Energy Efficiency program and with our purchase power agreements with the Florida Municipal Solar Project can help give our utility--and our city--national recognition. For example, since 2019 the American Public Power Association (APPA) has awarded 94 public utilities the designation “Smart Energy Provider.” The SEP program recognizes utilities that “show commitment to and proficiency in energy efficiency, distributed generation, renewable energy, and environmental initiatives.” The APPA created SEP “to provide national recognition of utility efforts to incorporate energy efficiencies and sustainability while providing affordable electric service.” (<https://www.publicpower.org/smart-energy-provider>)

Another national industry organization, the Smart Electric Power Alliance (SEPA; <https://sepapower.org/>) has an extensive library of technical information available to member utilities. SEPA defines community solar (also called “shared solar”) as “voluntary business models where multiple subscribers pay for a share of a specified offsite solar project and receive credit on their electricity bill for their portion of power produced.” SEPA notes that beyond its environmental benefits, community solar “provides local economic development, job training opportunities, and access to solar for low-to-moderate income customers.” Adoption of community solar is growing exponentially:



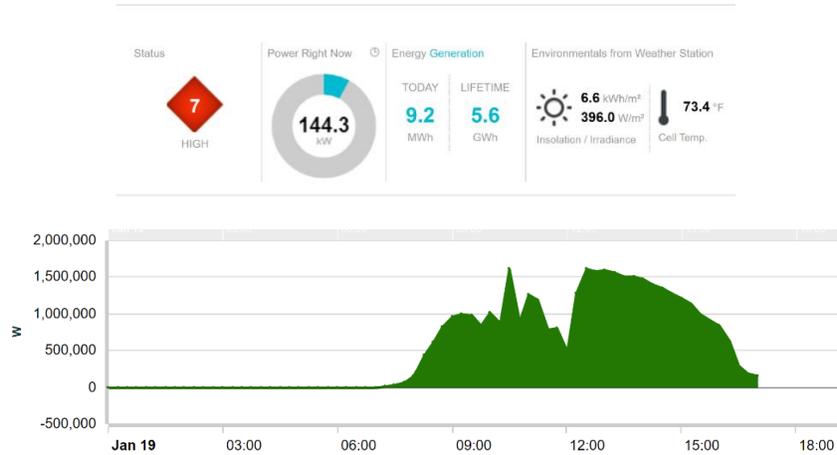
Regarding battery storage, the third component of the proposed **In Community Solar** program, the National Renewable Energy Laboratory (<https://www.nrel.gov/>) notes that “as prices for BESS continue to decline (70% from 2010-2016, and projected to decline further) and the need for system flexibility increases with wind and solar deployment, more policymakers, regulators, and utilities are seeking to develop policies to jump-start BESS deployment.” Of particular relevance to Lake Worth Beach, NREL also notes that “distribution-level BESS systems can also provide local power quality services and support improved resilience during extreme weather events.” Similarly to community solar, adoption of battery storage around the country has been growing exponentially:



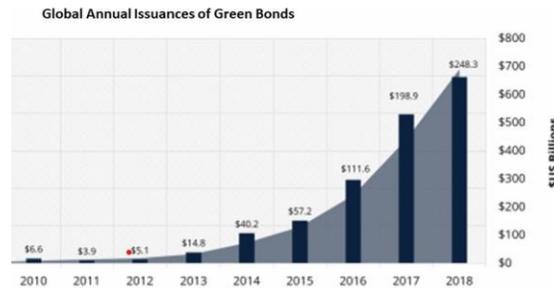
Data source: U.S. Energy Information Administration, Form EIA-860, Annual Electric Generator Report

The digital outreach component of the **In Community Solar** program can be a low-cost, high-return way to involve Lake Worth Beach residents, translating the visible solar panels on community properties into actual energy in their homes. If explanatory information and real-time graphs are presented for the battery systems and for all solar locations (the existing field at landfill, the large ones in the center of the state and the visible ones on community buildings and properties), the digital outreach can help again recreate the community feeling mentioned by resident Wes Blackman when, “having its own electricity was a source of pride.” **In Community Solar** can build on the digital presentations we already have:

City of Lake Worth



Finally, efforts such as the **In Community Solar** program, along with an Energy Efficiency/Conservation program, and combined with our substantial solar energy purchase power agreements will very likely, in addition to bringing national recognition to our utility and city, increase our attractiveness for the green bond market, an economic sector that is growing dramatically:



“Hundreds of billions of dollars in untapped new money can finance the U.S. power system's transition away from legacy fossil assets to renewables and distributed generation.”

<https://www.utilitydive.com/news/new-money-green-banks-and-green-bonds-are-bringing-billions-to-utilities-f/567483/>

1

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

6 **WHEREAS**, City of Lake Worth Beach residents are the owners of a municipal
7 Electric Utility that has been a source of community pride, and;

8 **WHEREAS**, the Electric Utility has initiated major steps toward increasing energy
9 production from renewable sources, including construction of a 1.7-megawatt solar field
10 on our former landfill and purchase power agreements for 37 megawatts of solar power
11 from fields outside of the city, and;

12 **WHEREAS**, these installations are important sources of clean energy, but ones that
13 are not visible to most city residents or businesses;

14 **WHEREAS**, the City of Lake Worth Beach seeks to visibly support and encourage
15 further energy production from renewable sources, and;

16 **WHEREAS**, rooftop solar on City-owned properties and solar shade structures over
17 parking lots offer highly visible ways to demonstrate clean energy production, as well as
18 new opportunities for pairing with battery storage, and;

19 **WHEREAS**, community solar programs are industry-recognized avenues for
20 providing utility customers of all incomes with a 100% solar option, and;

21 **WHEREAS**, the City Commission wishes to support the Electric Utility’s continued
22 adoption of industry-recognized “smart energy” best practices relating to energy
23 efficiency, distributed generation and renewable energy while still providing affordable
24 electric service, and;

25 **WHEREAS**, the City Commission believes that adoption of such best practices can
26 increase the utility’s eligibility for green bond market and philanthropic funding, and;

27 **NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY**
28 **OF LAKE WORTH BEACH, FLORIDA, that:**

29 **SECTION 1:** The City Commission hereby directs its municipally owned Electric Utility
30 to issue the necessary procurement documentation for a competitive procurement
31 process to implement an In Community Solar program that will install visibly-sited, grid-
32 tied solar systems on City owned properties in prominent locations throughout the City.

33 **SECTION 2:** The City Commission further directs that said In Community Solar
34 competitive procurement process shall solicit, but not be limited to, rooftop, ground-

1 mounted, and parking lot shade structure solar installations; that the installations shall
2 include battery storage; and that integrated educational website interfaces shall be
3 included to showcase both existing and new in-city solar as well as battery storage.

4 **SECTION 3:** The City Commission also directs that said In Community Solar
5 competitive procurement process shall identify vendor(s) and program policies able to
6 offer utility ratepayers the option of sourcing one-hundred percent renewable energy from
7 locally sited renewable energy assets on City owned properties through a dedicated rate-
8 class or program subscription agreement.

9 **SECTION 4:** The City Commission emphasizes that the competitive process shall
10 prioritize vendors and program policies offering a neutral or positive financial impact to
11 the utility and program participants.

12 The passage of this resolution was moved by Commissioner 75 seconded by 75,
13 and upon being put to a vote, the vote was as follows:

- 14
- 15 Mayor Betty Resch
- 16 Vice Mayor Herman Robinson
- 17 Commissioner Sarah Malega
- 18 Commissioner Christopher McVoy
- 19 Commissioner Kim Stokes

20 The Mayor thereupon declared this resolution duly passed and adopted on this
21 ____ day of _____, 2021.

22 LAKE WORTH BEACH CITY COMMISSION

23
24
25
26 By: _____
27 Betty Resch, Mayor

28
29 ATTEST:

30
31
32 _____
33 Melissa Ann Coyne, City Clerk
34

EXECUTIVE BRIEF ELECTRIC UTILITY MEETING

AGENDA DATE: October 26, 2021

TITLE:

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

SUMMARY:

The resolution provides direction to the Electric Utility Advisory Board and the Electric Utility administration to develop an energy conservation and energy efficiency based on best industry practices for the benefit of residents and the Utility. The initial focus is on residential customers, but the intent is to subsequently focus on commercial customers in a second phase.

BACKGROUND AND JUSTIFICATION:

Usage data for residential Lake Worth Beach Electric Utility customers suggests that a substantial percentage of residential customers are using well more than the typical Florida average usage of 1000-1200 kwh/mo. Some of the high usage customers likely are doing so consciously, and accept the correspondingly high bills. On the other hand, it is likely that many more are doing so unwillingly, in part due to lack of access to a utility-wide energy efficiency/energy conservation program. It is likely that Lake Worth Beach's reputation for expensive electricity is traceable in part to these latter cases of high usage and associated high bills. Strong utility-based energy conservation and energy efficiency programs have proven helpful to customers around the country. Involvement of the Electric Utility Advisory Board in program design is expected to beneficially tailor the program to the specific needs of our community.

MOTION:

Move to approve/disapprove Resolution No. 76-2021 requesting development of an energy conservation and energy efficiency program.

ATTACHMENT(S):

Fiscal Impact Analysis – N/A
Resolution 76-2021

1

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

6 **WHEREAS**, the City of Lake Worth Beach includes numerous homes designed and
7 constructed prior to the widespread usage of air conditioning, and;

8 **WHEREAS**, it is the desire of the City Commission to assist all residents in reducing
9 their electric usage and thereby their electric costs to amounts comparable to those of
10 other South Florida communities, and;

11 **WHEREAS**, it is desirable to build community pride in the City of Lake Worth Beach
12 Electric Utility, and;

13 **WHEREAS**, the Electric Utility has initiated major steps toward increasing energy
14 production from renewable sources, including construction of a 1.7-megawatt solar field
15 on our former landfill and purchase power agreements for 37 megawatts of solar power
16 from fields outside of the city, and;

17 **WHEREAS**, all forms of supply-side and demand-side energy efficiency are industry-
18 recognized “smart energy” best practices which can also contribute to best providing
19 affordable electric service, and;

20 **WHEREAS**, the City Commission believes that expansion of such energy efficiency
21 best practices can increase the utility’s eligibility for green bond market and philanthropic
22 funding;

23 **NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY**
24 **OF LAKE WORTH BEACH, FLORIDA, that:**

25 **SECTION 1:** The City Commission hereby directs the City of Lake Worth Beach Electric
26 Utility Advisory Board (EUAB) to work expeditiously to develop a comprehensive
27 approach for residential energy efficiency based on industry-wide best practices;

28 **SECTION 2:** The City Commission hereby directs that the developed comprehensive
29 approach be of benefit both to residents and to the Electric Utility, with benefits being
30 defined in the broadest sense, for example including state or national level recognition,
31 increased future eligibility for diverse funding sources, etc.;

32 **SECTION 3:** The City Commission also directs that in developing a comprehensive
33 approach to energy efficiency the EUAB evaluate all available best practice technologies
34 and policies, including but not limited to, rebate programs for ceiling insulation, ductwork
35 improvements, AC efficiency upgrades, appliance efficiency upgrades, smart

1 thermostats, window replacements; residential energy rating and disclosure policies;
2 energy audits; educational programs; and demand side management technologies and
3 policies;

4 **SECTION 4:** The City Commission recommends that the EUAB evaluate funding the
5 comprehensive energy efficiency through a small public benefit charge. Additional funding
6 through philanthropy, green bonds, and federal grants could also be evaluated;

7 **SECTION 5:** The City Commission directs the Electric Utility administration to submit
8 recommendations to the City Commission on how to best implement an energy efficiency
9 / energy conservation program that meets the unique needs of the Lake Worth Beach
10 Utility and its ratepayers no later than February 15, 2022;

11 **SECTION 6:** Once a residential program has been developed and implemented, the
12 City Commission further directs the EUAB to develop a parallel program to support
13 commercial customers.

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

- 16
- 17 Mayor Betty Resch
- 18 Vice Mayor Herman Robinson
- 19 Commissioner Sarah Malega
- 20 Commissioner Christopher McVoy
- 21 Commissioner Kim Stokes
- 22

23 The Mayor thereupon declared this resolution duly passed and adopted on this
24 _____ day of _____, 2021.

25

26 LAKE WORTH BEACH CITY COMMISSION

27

28

29

30 By: _____
31 Betty Resch, Mayor

32

33 ATTEST:

34

35

36 _____
37 Melissa Ann Coyne, City Clerk