



City Commission Work Session

Agenda

August 14, 2025 @ 3:30 PM

City Hall Commission Chambers
401 S. Park Avenue

welcome

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- 1. Meeting Called to Order**
- 2. Discussion Item (s)**
 - a. Electric Utility - Cost of Service
- 3. Adjournment**



City Commission

agenda item 2.a

item type

Discussion Item (s)

meeting date

August 14, 2025

prepared by**approved by**

Randy Knight, City Manager

subject

Electric Utility - Cost of Service

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. WP_Electric_Cost_of_Service_Study_Final
2. Cost_of_Service_Update_4-26-22
3. Cost of Service Study

Electric Cost of Service Study

City of Winter Park, Florida



March 2021



This report has been prepared for the use of the client for the specific purposes identified in the report. The conclusions, observations and recommendations contained herein attributed to Leidos constitute the opinions of Leidos. To the extent that statements, information and opinions provided by the client or others have been used in the preparation of this report, Leidos has relied upon the same to be accurate, and for which no assurances are intended and no representations or warranties are made. Leidos makes no certification and gives no assurances except as explicitly set forth in this report.

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March 10, 2021

Utility Advisory Board
City of Winter Park
City Hall, 401 South Park Avenue
Winter Park, Florida 32789

Subject: **Electric Cost of Service Study**

Ladies and Gentlemen:

In keeping with the provisions of the professional services agreement between the City of Winter Park, Florida (the City) and Leidos Engineering, LLC, (the Consultant) and the direction provided by the City management and staff and Utility Advisory Board, 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 rate options 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 Years 2020 and 2021 (the Budgets), the Ten Year Pro Forma, 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 Budgets as a basis for the projected costs. Such costs and revenues, as initially reflected in the Budgets, were adjusted for known or anticipated changes.

The City acquired the Electric System from Progress Energy Florida (now doing business as Duke Energy Florida) in June 2005 and has not previously performed a cost of service study.

Leidos Engineering, LLC

1000 Legion Place, Suite 1100 | Orlando, FL 32801 | tel: 407.422.4911 | fax: 407.648.8382 | leidos.com/engineering

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:

Description	Projected				
	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Net Revenue Requirements	\$44,912,177	\$44,270,456	\$44,662,613	\$45,622,904	\$45,975,542
Total Existing Rate Revenue	44,912,177	44,270,455	44,662,613	45,060,160	45,463,192
Difference	(\$0)	(\$0)	\$0	(\$562,744)	(\$512,349)
Percent of Base and Fuel Revenue	0.0%	0.0%	0.0%	-1.4%	-1.3%

As shown above, the existing rates produce revenues that are approximately equal to the projected revenue requirements in the fiscal years ending September 30, 2020 through 2022 and slightly under recover the projected revenue requirements in the fiscal years ending September 30, 2023 and 2024.

Based on the analyses in this Report, the proposed rate options represent a realignment of costs allocated among the residential and commercial classes. It is projected that the proposed rate options will be sufficient to meet the projected revenue requirements for the fiscal years ending September 30, 2020 through 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 are summarized as follows:

Customer Class	Test Year 2020		
	Total Existing	Rate	
	Revenue	Adjustments	
	(\$000)	(\$000)	(%) [1]
Residential	\$23,416	(\$601)	-2.9%
Commercial			
General Service Non-Demand	1,488	(17)	-1.3%
GS Non-Demand (100% Load Factor)	40	(0)	-0.4%
General Service Demand	12,545	519	4.8%
General Service Demand TOU	4,809	50	1.2%
Public Authority	2,129	48	2.6%
Lighting	485	1	0.3%
Total System	\$44,912	\$0	0.0%

[1] Percent of base rate and fuel adjustment revenues.

Rate adjustments based on moving 60% toward the Cost of Service.

RATE DESIGN

Four rate options are shown in Section 6. The electric rate options 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 one of the rate options shown herein would be:

- Rate structures and levels, in general, will be based, in part, on allocated cost of service techniques.
- Fuel and purchased energy costs will continue to be shown in a separate charge, the Fuel Cost Recovery Factor.
- The rate options shown herein will be sufficient to meet the projected revenue requirements for the fiscal years ending September 30, 2020 through 2022.

RATE COMPARISONS

To assist the City in its evaluation and consideration of rate adjustment options, 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 rate options have been compared with bills calculated under the existing rates. In addition, typical monthly bills calculated under the Electric System's existing and proposed rate options 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 June 2020.

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 mid-2020 and may not reflect actual current market prices for gas, oil and purchased energy.

As shown on Table No. 7-1, typical residential and small commercial customers' bills under the proposed rate options can be expected to decrease slightly and large commercial customers' bills can be expected to increase slightly.

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 City's financial records and data provide a good basis for conducting the Cost of Service Study;
- (ii) The existing rates produce revenues that are approximately equal to the projected revenue requirements in the fiscal years ending September 30, 2020 through 2022 and slightly under recover the projected revenue requirements in the fiscal years ending September 30, 2023 and 2024;
- (iii) The proposed rate options reflect a realignment of costs among the residential and commercial rate classes, and are projected to meet the revenue requirements for the fiscal years ending September 30, 2020 through 2022.
- (iv) The City's existing and proposed rate options are comparable or lower than other Florida electric utilities;
- (v) The City may want to investigate additional rate offerings such as Residential Time of Use Rate, Solar Subscription Rate, or Electric Vehicle Rate;
- (vi) The City should continue to monitor the cost of purchased power and current market conditions and should make adjustments, if necessary, to its fuel cost recovery factor to reflect such costs and conditions and to minimize the potential to under recover or over recover its fuel costs; and

- (vii) 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 rate options 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 rate options.

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, along with members of the Utility Advisory Board.

Respectfully submitted,

LEIDOS ENGINEERING, LLC

c: Mayor and City Commission

Daniel D'Allessandro

Wes Hamil

Leidos Engineering, LLC

1000 Legion Place, Suite 1100 | Orlando, FL 32801 | tel: 407.422.4911 | fax: 407.648.8382 | leidos.com/engineering

Electric Cost of Service Study

City of Winter Park, Florida

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Section 1

INTRODUCTION, PURPOSE, AND SCOPE

Introduction

The City of Winter Park (City), located in Central Florida, operates a transmission and distribution only utility consisting of facilities that provide electric service to approximately 15,000 customers. The City currently meets its load requirements through power supply contracts with the Orlando Utilities Commission (OUC), Covanta Energy Marketing LLC (Covanta), and the Florida Municipal Power Agency (FMPA). As a member of FMPA, the City benefits from the associated capacity and energy to meet its customers' load requirements. Power is delivered through the City's Canton Avenue and Interlachen substations served by 69 kV transmission lines owned by Duke Energy (Duke).

Leidos Engineering, LLC, (the Consultant or the firm) conducted this 2020 Electric Cost of Service Study "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 Budgets for Fiscal Years ending September 30, 2020 and 2021, the Capital Improvement Plan for Fiscal Years 2020 through 2024, the Ten Year Pro Forma projections, 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 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 electric 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 Study provided for (i) the development of revenue requirements for the Test Year and Study Period; (ii) the development of proposed rate options 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 rate options 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 include, 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 activities include (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 rate options, and (v) the preparation of a final report.

Section 2

ENERGY REQUIREMENTS AND CUSTOMER STATISTICS

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 information provided by the City and checked for reasonableness based on historical growth, usage patterns, and weather.

Based on information provided by the City, the following is a summary of Table 2-1 setting forth the historical number of residential and commercial customers and energy sales.

Historical Retail Energy Sales (MWh)			
Fiscal Year	Residential	Commercial	Total
2014	183,301	242,713	426,014
2015	187,566	241,780	429,346
2016	192,100	245,935	438,035
2017	185,518	239,657	425,175
2018	182,964	231,731	414,695
2019	190,271	235,748	426,018

Historical Number of Customers			
Fiscal Year	Residential	Commercial	Total
2014	11,610	2,938	14,548
2015	11,864	3,001	14,864
2016	11,898	3,001	14,899
2017	11,898	3,287	15,185
2018	12,084	3,298	15,382
2019	12,048	3,296	15,344

Projected Demand

The historical system peak demand for the fiscal year ended September 30, 2019 was 97.1 MW occurring in June. For purposes of this Study, it was projected that the system peak demand for fiscal year 2020 would be 95.7 MW.

Projected Energy Sales

The monthly system historical and projected energy sales are detailed in Table No. 2-1. The following tabulation is an annual summary of the historical and projected energy sales by major customer class for fiscal years 2019 and 2020:

Retail Energy Sales (MWh)			
Fiscal Year	Residential	Commercial	Total
Historical 2019	190,271	235,748	426,018
Projected 2020	187,842	232,158	420,000

As can be seen from the summary table, energy sales in fiscal year ended September 30, 2019 were 426,018 MWh. Sales in fiscal year 2020 and the Study Period are based projected amounts provided by the City.

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. 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	Total
Historical 2019	12,048	3,296	15,344
Projected 2020	12,180	3,300	15,479

Purchased Power

The City purchases capacity and energy requirements from a variety of sources, including OUC, Covanta, and FMPA. The contract with Covanta ends in 2024, and the contracts with OUC and FMPA end in 2026 and 2027, respectively.

Energy Losses

The loss factors utilized in developing the projected energy requirements for the Test Year are 3.8 percent of annual energy requirements and 4.0 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)	95.7
Annual Energy Sales (MWh)	420,000
Losses and Unaccounted for Energy (MWh)	<u>16,590</u>
Annual Energy Requirements (MWh)	<u>436,590</u>
Annual System Load Factor (%)	52.1 %

Customer Statistics

As shown on Table No. 2-1 and Table No. 2-2, the historical number of customers and energy sales have been relatively stable. The City's customer base is somewhat unique, since the residential base includes a significant number of above average energy users, and the average use per customer is higher than for other utilities in the area, the small commercial users such as those on Park Avenue are distinctive and may have different operating hours than typical small commercial users, and the large commercial customers include unique customers such as Rollins College and the hospital.

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, 2017 through 2020 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 Test 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 (if any); 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:

Customer Class	Test Year 2020			
	Average			
	Number of	Percent	Annual MWh	Percent
	Customers	of Total	Sales	of Total
Residential	12,180	78.7%	187,842	44.7%
Commercial	1,167	7.5%	11,664	2.8%
Commercial Demand	1,069	6.9%	196,182	46.7%
Public Authority	269	1.7%	22,188	5.3%
Lighting	795	5.1%	2,124	0.5%
Total	15,479	100.0%	420,000	100.0%

The projected energy sales of 420,000 MWh in the Test Year reflects an estimated normal year. For Fiscal Year 2021, the projected energy sales are 407,000 MWh to reflect the unknown impact of Covid-19 on energy sales.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Historical and Projected Customers*Fiscal Years 2017-2020*

Table No. 2-1

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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)	(l)	(m)	(n)	(o)
Historical FY 2017															
1	Residential	11,857	11,831	11,852	11,852	11,842	11,894	11,866	11,917	11,980	11,959	11,994	11,929	142,773	11,898
Commercial															
2	General Service Non-Demand	1,014	1,033	1,017	1,014	1,024	1,011	1,163	1,144	1,142	1,135	1,141	1,134	12,972	1,081
3	GS Non-Demand - 100% Load Factor	36	36	36	36	36	36	36	36	36	40	40	40	444	37
General Service Demand															
4	Primary	2	2	2	2	2	2	2	2	2	3	2	2	25	2
5	Secondary	1,144	1,136	1,137	1,131	1,136	1,138	1,005	1,028	1,031	1,036	1,036	1,042	13,000	1,083
Time of Use															
6	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
7	Secondary	20	20	21	19	21	21	21	20	20	20	20	20	243	20
8	Subtotal Commercial	2,217	2,228	2,214	2,203	2,220	2,209	2,228	2,231	2,232	2,235	2,240	2,239	26,696	2,225
Public Authority															
9	General Service Non-Demand	186	186	186	189	187	187	183	178	189	180	179	182	2,212	184
10	GS Non-Demand - 100% Load Factor	22	23	23	23	23	23	23	23	23	23	23	23	275	23
11	General Service Demand	58	59	56	56	56	57	60	55	63	59	60	57	696	58
Time of Use															
12	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
13	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
14	Subtotal Public Authority	268	270	267	270	268	269	268	258	277	264	264	264	3,207	267
Lighting															
15	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
16	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
17	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
18	FY 2017 TOTAL CUSTOMERS	15,137	15,124	15,128	15,120	15,125	15,167	15,157	15,201	15,284	15,253	15,293	15,227	182,216	15,185
Historical FY 2018															
19	Residential	11,860	11,865	11,889	11,840	12,147	12,217	12,130	12,171	12,250	12,206	12,263	12,167	145,005	12,084
Commercial															
20	General Service Non-Demand	1,134	1,145	1,133	1,138	1,128	1,140	1,129	1,133	1,140	1,123	1,124	1,127	13,594	1,133
21	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
General Service Demand															
22	Primary	2	1	1	1	1	1	1	1	1	1	1	1	13	1
23	Secondary	1,050	1,035	1,043	1,043	1,043	1,038	1,040	1,045	1,042	1,034	1,044	1,040	12,497	1,041
Time of Use															
24	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
25	Secondary	20	20	20	20	20	20	20	20	21	20	20	20	241	20
26	Subtotal Commercial	2,247	2,242	2,238	2,243	2,233	2,240	2,231	2,240	2,245	2,219	2,230	2,229	26,837	2,236
Public Authority															
27	General Service Non-Demand	182	183	182	182	182	181	182	183	181	181	180	185	2,184	182
28	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
General Service Demand															
29	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
30	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
31	Subtotal Public Authority	269	267	266	266	266	265	266	266	264	267	268	270	2,484	267
Lighting															
32	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
33	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
34	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
35	FY 2018 TOTAL CUSTOMERS	15,171	15,169	15,188	15,144	15,441	15,517	15,422	15,472	15,554	15,487	15,556	15,461	184,582	15,382

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Historical and Projected Customers*Fiscal Years 2017-2020*

Table No. 2-1

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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)	(l)	(m)	(n)	(o)
Historical FY 2019															
36	Residential	12,017	12,005	11,999	12,045	12,059	12,017	12,081	12,089	12,089	12,083	12,078	12,012	144,574	12,048
Commercial															
37	General Service Non-Demand	1,134	1,128	1,127	1,127	1,116	1,114	1,107	1,115	1,102	1,069	1,107	1,099	13,345	1,112
38	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
	General Service Demand														
39	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
40	Secondary	1,048	1,050	1,054	1,055	1,052	1,060	1,053	1,056	1,048	1,054	1,062	1,062	12,654	1,055
	Time of Use														
41	Primary	2	2	2	2	2	2	2	1	1	1	1	1	19	2
42	Secondary	19	19	19	18	20	19	19	20	20	19	19	19	230	19
43	Subtotal Commercial	2,244	2,240	2,243	2,243	2,231	2,236	2,222	2,233	2,212	2,184	2,230	2,222	26,740	2,228
Public Authority															
44	General Service Non-Demand	184	186	185	185	185	186	184	188	184	195	195	195	2,252	188
45	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
46	General Service Demand	60	59	61	61	61	60	61	61	60	59	58	60	721	60
	Time of Use														
47	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
48	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
49	Subtotal Public Authority	269	270	271	271	271	271	270	274	269	279	278	280	3,273	273
Lighting															
50	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
51	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
52	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
53	FY 2019 TOTAL CUSTOMERS	15,325	15,310	15,308	15,354	15,356	15,319	15,368	15,391	15,365	15,341	15,381	15,309	184,127	15,344
Projected FY 2020															
54	Residential	12,146	12,135	12,126	12,181	12,205	12,176	12,130	12,171	12,250	12,206	12,263	12,167	146,156	12,180
Commercial															
55	General Service Non-Demand	1,134	1,128	1,127	1,127	1,116	1,114	1,129	1,133	1,140	1,123	1,124	1,127	13,522	1,127
56	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
	General Service Demand														
57	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
58	Secondary	1,048	1,050	1,054	1,055	1,052	1,060	1,040	1,045	1,042	1,034	1,044	1,040	12,564	1,047
	Time of Use														
59	Primary	2	2	2	2	2	2	1	1	1	1	1	1	18	2
60	Secondary	19	19	19	18	20	19	20	20	21	20	20	20	235	20
61	Subtotal Commercial	2,244	2,240	2,243	2,243	2,231	2,236	2,231	2,240	2,245	2,219	2,230	2,229	26,831	2,236
Public Authority															
62	General Service Non-Demand	184	186	185	185	185	186	182	183	181	181	180	185	2,203	184
63	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
64	General Service Demand	60	59	61	61	61	60	59	58	58	61	63	60	721	60
	Time of Use														
65	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
66	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
67	Subtotal Public Authority	269	270	271	271	271	271	266	266	264	267	268	270	3,224	269
Lighting															
68	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
69	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
70	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
71	FY 2020 TOTAL CUSTOMERS	15,454	15,440	15,435	15,490	15,502	15,478	15,422	15,472	15,554	15,487	15,556	15,461	185,751	15,479

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2017-2020

Ln. No.	Customer Classes (a)	Oct (b)	Nov (c)	Dec (d)	Jan (e)	Feb (f)	Mar (g)	Apr (h)	May (i)	Jun (j)	Jul (k)	Aug (l)	Sep (m)	Total (n)	Average (o)
Historical FY 2017															
1	Residential	18,162,291	13,444,261	12,229,953	12,753,019	12,375,894	11,886,726	12,706,951	15,080,783	18,080,150	19,209,581	19,786,658	19,801,670	185,517,937	15,459,828
Commercial															
2	General Service Non-Demand	1,140,723	990,553	830,686	816,031	835,218	807,783	868,318	956,483	1,066,706	1,163,831	1,231,885	1,131,986	11,840,203	986,684
3	GS Non-Demand - 100% Load Factor	33,079	32,216	34,990	33,323	33,435	34,649	33,575	33,661	34,573	37,732	36,701	36,327	414,261	34,522
General Service Demand															
4	Primary	15,356	12,233	10,985	10,735	11,024	10,169	11,915	13,876	13,386	10,742	7,458	7,012	134,891	11,241
5	Secondary	12,551,966	10,787,867	10,157,938	10,244,128	10,103,622	10,039,367	10,461,445	11,404,196	12,448,692	13,144,289	13,690,625	13,063,011	138,097,146	11,508,096
Time of Use															
6	Primary - On Peak	466,400	381,600	374,400	295,200	345,600	360,000	374,400	367,200	374,400	424,800	424,800	432,000	4,620,800	385,067
7	Primary - Off Peak	1,310,400	1,130,400	1,224,000	936,000	1,087,200	1,123,200	1,173,600	1,209,600	1,188,000	1,432,800	1,281,600	1,432,800	14,529,600	1,210,800
8	Secondary- On Peak	1,051,627	942,849	882,054	860,197	867,068	873,428	855,363	908,277	989,368	989,069	945,740	1,031,275	11,196,315	933,026
9	Secondary - Off Peak	3,329,281	2,863,625	2,702,333	2,612,032	2,661,695	2,667,168	2,580,285	2,742,350	3,019,714	2,959,953	2,973,516	3,137,328	34,249,280	2,854,107
10	Subtotal Commercial	19,898,832	17,141,343	16,217,386	15,807,646	15,944,862	15,915,764	16,358,901	17,635,643	19,134,839	20,163,216	20,592,325	20,271,739	215,082,496	17,923,541
Public Authority															
11	General Service Non-Demand	164,771	164,911	176,300	151,704	157,379	162,094	109,898	102,263	116,236	114,220	115,423	111,081	1,646,280	137,190
12	GS Non-Demand - 100% Load Factor	8,642	8,722	8,996	8,929	8,965	8,876	8,667	8,635	8,739	8,816	8,789	8,732	105,508	8,792
13	General Service Demand	1,207,375	1,097,988	1,033,900	953,668	935,224	1,002,941	1,011,727	1,090,267	1,205,205	1,168,148	1,283,693	1,244,346	13,234,482	1,102,874
Time of Use															
14	Primary - On Peak	182,400	158,400	160,800	115,200	136,800	158,400	148,800	151,200	163,200	158,400	158,400	199,200	1,891,200	157,600
15	Primary - Off Peak	504,000	420,000	420,000	285,600	316,800	396,000	364,800	451,200	436,800	480,000	451,200	585,600	5,112,000	426,000
16	Secondary- On Peak	11,400	10,600	8,700	9,300	8,900	9,100	9,300	10,800	10,500	13,300	12,100	12,000	126,000	10,500
17	Secondary - Off Peak	33,400	27,500	21,500	24,600	23,600	23,800	24,600	30,900	30,000	38,800	37,600	32,900	349,200	29,100
18	Subtotal Public Authority	2,111,988	1,888,121	1,830,196	1,549,001	1,587,668	1,761,211	1,677,792	1,845,265	1,970,680	1,981,684	2,067,205	2,193,859	22,464,670	1,872,056
Lighting															
19	Residential	6,650	6,658	6,551	6,683	6,687	6,696	6,742	6,201	6,254	6,169	6,453	6,228	77,972	6,498
20	Commercial	50,644	50,280	51,141	50,745	46,116	46,090	46,182	47,079	46,549	46,969	48,995	56,988	587,778	48,982
21	Public Authority	120,411	120,411	122,883	120,411	120,411	120,411	120,411	120,242	120,580	119,676	119,364	119,364	1,444,575	120,381
22	Subtotal Lighting	177,705	177,349	180,575	177,839	173,214	173,197	173,335	173,522	173,383	172,814	174,812	182,580	2,110,325	55,479
23	FY 2017 TOTAL ENERGY SALES	40,350,816	32,651,074	30,458,110	30,287,505	30,081,638	29,736,898	30,916,979	34,735,213	39,359,052	41,527,295	42,621,000	42,449,848	425,175,428	35,431,286

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2017-2020

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)	(l)	(m)	(n)	(o)
Historical FY 2018															
24	Residential	16,850,689	14,407,780	12,032,570	15,234,078	14,301,731	12,299,746	11,517,908	13,627,407	15,644,114	18,581,628	19,321,843	19,144,243	182,963,737	15,246,978
Commercial															
25	General Service Non-Demand	1,053,179	868,397	742,029	840,853	777,992	782,646	722,251	866,911	964,103	1,134,793	1,169,197	1,161,213	11,083,564	923,630
26	GS Non-Demand - 100% Load Factor	32,608	36,979	36,710	37,071	37,237	35,791	34,950	36,217	36,119	36,713	36,718	37,374	434,487	36,207
General Service Demand															
27	Primary	5,947	3,461	3,368	3,439	2,851	2,895	2,447	3,344	3,499	3,911	3,790	3,148	42,100	3,508
28	Secondary	12,009,376	11,149,369	10,056,736	10,096,683	9,956,344	10,394,018	9,353,904	10,714,394	11,506,097	12,909,653	13,246,095	13,073,342	134,466,011	11,205,501
Time of Use															
29	Primary - On Peak	432,000	388,800	367,200	280,800	352,800	360,000	295,200	381,600	338,400	374,400	403,200	381,600	4,356,000	363,000
30	Primary - Off Peak	1,303,200	1,180,800	1,224,000	943,200	1,008,000	1,238,400	1,029,600	1,159,200	1,116,000	1,288,800	1,180,800	1,245,600	13,917,600	1,159,800
31	Secondary- On Peak	941,609	942,803	839,213	838,703	852,360	826,546	782,344	897,059	902,437	965,901	943,868	908,373	10,641,216	886,768
32	Secondary - Off Peak	2,846,322	2,944,497	2,524,442	2,573,549	2,621,439	2,541,046	2,404,222	2,672,148	2,810,231	2,910,450	2,841,201	2,843,548	32,533,095	2,711,091
33	Subtotal Commercial	18,624,241	17,515,106	15,793,698	15,614,298	15,609,023	16,181,342	14,624,918	16,730,873	17,676,886	19,624,621	19,824,869	19,654,198	207,474,073	17,289,506
Public Authority															
34	General Service Non-Demand	114,894	115,928	109,981	110,757	114,320	111,722	98,509	103,008	105,150	109,929	110,004	114,121	1,318,323	109,860
35	GS Non-Demand - 100% Load Factor	8,401	8,823	8,773	8,892	8,790	8,732	8,369	8,645	8,441	8,543	8,467	8,624	103,500	8,625
36	General Service Demand	1,297,844	1,272,790	1,130,449	1,002,132	1,027,933	1,005,484	854,395	967,623	1,026,936	1,144,283	1,405,375	1,264,502	13,399,746	1,116,646
Time of Use															
37	Primary - On Peak	172,800	172,800	156,000	132,000	172,800	144,000	124,800	153,600	146,400	146,400	151,200	170,400	1,843,200	153,600
38	Primary - Off Peak	484,800	458,400	422,400	364,800	420,000	376,800	362,400	376,800	420,000	432,000	446,400	446,400	5,011,200	417,600
39	Secondary- On Peak	11,100	10,100	8,900	10,300	9,800	9,600	8,400	9,200	10,300	11,800	11,800	11,700	123,000	10,250
40	Secondary - Off Peak	32,200	28,200	21,300	22,500	23,800	23,100	22,500	28,500	29,100	32,900	36,900	32,800	333,800	27,817
41	Subtotal Public Authority	2,122,039	2,067,041	1,857,803	1,651,381	1,777,443	1,679,438	1,479,373	1,647,376	1,746,327	1,885,855	2,170,146	2,048,547	22,132,769	1,844,397
Lighting															
42	Residential	6,187	6,175	6,479	6,357	6,352	6,374	6,424	6,414	6,381	6,492	6,406	6,392	76,433	6,369
43	Commercial	51,224	48,876	53,705	51,224	48,876	53,705	51,266	51,238	51,426	50,926	51,441	51,240	615,147	51,262
44	Public Authority	119,364	119,364	119,364	119,364	119,364	119,364	119,190	119,190	119,190	119,364	119,886	119,364	1,432,368	119,364
45	Subtotal Lighting	176,775	174,415	179,548	176,945	174,592	179,443	176,880	176,842	176,997	176,782	177,733	176,996	2,123,948	176,996
46	FY 2018 TOTAL ENERGY SALES	37,773,744	34,164,342	29,863,619	32,676,702	31,862,789	30,339,969	27,799,079	32,182,498	35,244,324	40,268,886	41,494,591	41,023,984	414,694,527	34,557,877

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2017-2020

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)	(l)	(m)	(n)	(o)
Historical FY 2019															
47	Residential	20,059,385	14,922,098	13,464,512	13,862,510	13,681,753	11,630,802	11,494,848	15,006,519	18,842,877	18,539,574	18,793,014	19,972,857	190,270,749	15,855,896
Commercial															
48	General Service Non-Demand	1,204,533	933,316	770,900	751,735	790,223	728,810	752,168	956,321	1,163,356	1,156,825	1,145,296	1,198,239	11,551,722	962,644
49	GS Non-Demand - 100% Load Factor	38,794	36,755	39,084	39,832	38,145	35,374	36,685	38,009	38,426	36,047	37,648	38,309	453,108	37,759
	General Service Demand														
50	Primary	3,656	3,312	3,368	3,338	2,971	2,297	2,501	2,458	2,496	2,574	2,527	2,512	34,010	2,834
51	Secondary	13,492,224	11,398,478	10,325,682	9,949,784	9,792,865	9,724,041	9,866,903	11,770,519	13,154,629	13,264,154	13,212,298	13,975,912	139,927,489	11,660,624
	Time of Use														
52	Primary - On Peak	453,600	417,600	338,400	280,800	352,800	266,400	316,800	345,600	273,600	302,400	324,000	324,000	3,996,000	333,000
53	Primary - Off Peak	1,447,200	1,188,000	1,130,400	921,600	1,058,400	936,000	921,600	1,202,400	900,000	964,800	972,000	1,058,400	12,700,800	1,058,400
54	Secondary- On Peak	1,010,290	869,078	857,092	747,581	863,657	740,455	784,908	877,269	898,747	895,516	944,700	1,000,375	10,489,668	874,139
55	Secondary - Off Peak	3,032,333	2,556,009	2,571,460	2,295,822	2,653,437	2,261,177	2,386,991	2,656,395	2,677,335	2,750,783	2,830,329	3,076,941	31,749,012	2,645,751
56	Subtotal Commercial	20,682,630	17,402,548	16,036,386	14,990,492	15,552,498	14,694,554	15,068,556	17,848,971	19,108,589	19,373,099	19,468,798	20,674,688	210,901,809	17,575,151
Public Authority															
57	General Service Non-Demand	122,071	109,533	112,667	110,221	112,497	105,229	101,151	105,126	109,302	105,008	106,120	112,766	1,311,691	109,308
58	GS Non-Demand - 100% Load Factor	8,717	8,768	8,715	9,014	8,657	8,361	8,492	8,653	8,449	8,294	8,313	8,356	102,789	8,566
59	General Service Demand	1,333,369	1,148,341	1,032,453	930,514	1,023,386	963,305	942,525	1,110,564	1,247,664	1,164,270	1,177,820	1,323,229	13,397,440	1,116,453
	Time of Use														
60	Primary - On Peak	189,600	177,600	175,200	160,800	194,400	153,600	160,800	153,600	153,600	160,800	158,400	204,000	2,042,400	170,200
61	Primary - Off Peak	540,000	453,600	477,600	412,800	448,800	415,200	386,400	429,600	451,200	424,800	444,000	520,800	5,404,800	450,400
62	Secondary- On Peak	11,300	10,500	9,900	8,800	10,000	8,600	8,200	10,100	11,600	11,800	11,600	12,500	124,900	10,408
63	Secondary - Off Peak	33,000	31,100	23,200	24,400	23,000	24,100	24,000	30,100	32,700	33,100	32,700	36,900	348,300	29,025
64	Subtotal Public Authority	2,238,057	1,939,442	1,839,735	1,656,549	1,820,740	1,678,395	1,631,568	1,847,743	2,014,515	1,908,072	1,938,953	2,218,551	22,732,320	1,894,360
Lighting															
65	Residential	6,416	6,464	6,239	6,343	6,357	6,437	6,419	6,383	6,374	6,374	6,374	6,374	76,554	6,380
66	Commercial	52,350	51,982	51,094	51,194	50,938	51,022	50,873	50,339	48,709	48,929	48,732	48,506	604,668	50,389
67	Public Authority	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	1,432,368	119,364
68	Subtotal Lighting	178,130	177,810	176,697	176,901	176,659	176,823	176,656	176,086	174,447	174,667	174,470	174,244	2,113,590	176,133
69	FY 2019 TOTAL ENERGY SALES	43,158,202	34,441,898	31,517,330	30,686,452	31,231,650	28,180,574	28,371,628	34,879,319	40,140,428	39,995,412	40,375,235	43,040,340	426,018,468	35,501,539

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2017-2020

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)	(l)	(m)	(n)	(o)
Projected FY 2020															
70	Residential	20,317,219	15,113,900	13,637,579	14,040,693	13,857,612	11,780,299	11,665,954	13,802,568	15,845,196	18,820,468	19,570,197	19,390,315	187,842,000	15,653,500
	Commercial														
71	General Service Non-Demand	1,206,568	934,893	772,203	753,005	791,558	730,041	723,471	868,376	965,732	1,136,710	1,171,173	1,163,175	11,216,906	934,742
72	GS Non-Demand - 100% Load Factor	38,860	36,817	39,150	39,899	38,209	35,434	35,009	36,278	36,180	36,775	36,780	37,437	446,829	37,236
	General Service Demand														
73	Primary	3,662	3,318	3,374	3,344	2,976	2,301	2,451	3,350	3,505	3,918	3,796	3,153	39,147	3,262
74	Secondary	13,515,022	11,417,738	10,343,129	9,966,596	9,809,412	9,740,472	9,369,709	10,732,498	11,525,539	12,931,467	13,268,477	13,095,432	135,715,493	11,309,624
	Time of Use														
75	Primary - On Peak	454,366	418,306	338,972	281,274	353,396	266,850	295,699	382,245	338,972	375,033	403,881	382,245	4,291,239	357,603
76	Primary - Off Peak	1,449,645	1,190,007	1,132,310	923,157	1,060,188	937,582	1,031,340	1,161,159	1,117,886	1,290,978	1,182,795	1,247,705	13,724,752	1,143,729
77	Secondary- On Peak	1,011,997	870,546	858,540	748,844	865,116	741,706	783,666	898,575	903,962	967,533	945,463	909,908	10,505,857	875,488
78	Secondary - Off Peak	3,037,457	2,560,328	2,575,805	2,299,701	2,657,921	2,264,998	2,408,284	2,676,663	2,814,979	2,915,368	2,846,002	2,848,353	31,905,859	2,658,822
79	Subtotal Commercial	20,717,578	17,431,953	16,063,483	15,015,822	15,578,777	14,719,384	14,649,630	16,759,143	17,706,755	19,657,781	19,858,367	19,687,408	207,846,082	17,320,507
	Public Authority														
80	General Service Non-Demand	122,277	109,718	112,857	110,407	112,687	105,407	98,675	103,182	105,328	110,115	110,190	114,314	1,315,157	109,596
81	GS Non-Demand - 100% Load Factor	8,732	8,783	8,730	9,029	8,672	8,375	8,383	8,660	8,455	8,557	8,481	8,639	103,496	8,625
82	General Service Demand	1,335,622	1,150,281	1,034,198	932,086	1,025,115	964,933	855,839	969,258	1,028,671	1,146,217	1,407,750	1,266,639	13,116,608	1,093,051
	Time of Use														
83	Primary - On Peak	189,920	177,900	175,496	161,072	194,728	153,860	125,011	153,860	146,647	146,647	151,455	170,688	1,947,285	162,274
84	Primary - Off Peak	540,912	454,366	478,407	413,498	449,558	415,902	363,012	377,437	420,710	432,730	447,154	447,154	5,240,841	436,737
85	Secondary- On Peak	11,319	10,518	9,917	8,815	10,017	8,615	8,414	9,216	10,317	11,820	11,820	11,720	122,507	10,209
86	Secondary - Off Peak	33,056	31,153	23,239	24,441	23,039	24,141	22,538	28,548	29,149	32,956	36,962	32,855	342,077	28,506
87	Subtotal Public Authority	2,241,839	1,942,719	1,842,844	1,659,348	1,823,817	1,681,231	1,481,873	1,650,160	1,749,278	1,889,042	2,173,813	2,052,008	22,187,970	1,848,998
	Lighting														
88	Residential	6,412	6,460	6,235	6,339	6,353	6,433	6,420	6,410	6,377	6,488	6,402	6,388	76,718	6,393
89	Commercial	52,318	51,950	51,063	51,163	50,907	50,991	51,235	51,207	51,394	50,895	51,409	51,209	615,740	51,312
90	Public Authority	119,291	119,291	119,291	119,291	119,291	119,291	119,117	119,117	119,117	119,291	119,813	119,291	1,431,490	119,291
91	Subtotal Lighting	178,021	177,701	176,589	176,793	176,551	176,715	176,772	176,734	176,889	176,674	177,624	176,888	2,123,948	176,996
92	FY 2020 TOTAL ENERGY SALES	43,454,657	34,666,274	31,720,494	30,892,655	31,436,757	28,357,628	27,974,228	32,388,604	35,478,118	40,543,964	41,780,002	41,306,619	420,000,000	35,000,000

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Projected Annual Billing Determinants
Fiscal Year Ending September 30, 2020

Ln. No.	Customer Class Description	Number of Bills	Billing Demand (kW)	Energy Sales (kWh)
	(a)	(b)	(c)	(d)
Residential Service				
1	Energy < 1,000 kWh	146,156	0	113,672,573
2	Energy > 1,000 kWh	0	0	74,169,427
3	Total Residential	146,156	0	187,842,000
Commercial Service				
	General Service Non-Demand			
4	Secondary	13,522	0	11,216,906
5	General Service Non-Demand (100% LF)	480	0	446,829
	General Service Demand			
6	Primary	12	341	39,147
7	Secondary	12,564	395,612	135,715,493
	General Service Demand Time of Use			
8	Primary On-Peak	18	33,825	4,291,239
9	Primary Off-Peak	0	33,825	13,724,752
10	Secondary On-Peak	235	80,206	10,505,857
11	Secondary Off-Peak	0	82,477	31,905,859
12	Total Commercial	26,831	626,286	207,846,082
Public Authority				
	General Service Non-Demand			
13	Secondary	2,203	0	1,315,157
14	General Service Non-Demand (100% LF)	276	0	103,496
15	General Service Demand - Secondary	721	50,746	13,116,608
	General Service Demand Time of Use			
16	Primary On-Peak	12	21,204	1,947,285
17	Primary Off-Peak	0	21,348	5,240,841
18	Secondary On-Peak	12	1,510	122,507
19	Secondary Off-Peak	0	1,510	342,077
20	Total Public Authority	3,224	96,316	22,187,970
Lighting				
21	Residential	7,788	0	76,718
22	Commercial	1,752	0	2,047,230
23	Total Lighting	9,540	0	2,123,948
24	TOTAL FISCAL YEAR 2020	185,751	722,602	420,000,000

Section 3

REVENUE REQUIREMENTS

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 City's 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. The transfers to the City include an equivalent franchise fee amount based on 6 percent of revenues. That amount is shown separately as a revenue requirement and also is included in other revenue since it is collected as a separate line item on customers' bills.

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 City's 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 assumed herein or provided to us by others, the actual results will vary 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 the annual inflation rate 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 the 2020 and 2021 Budgets, the 10 Year Pro Forma, an assumed inflation rate of 1.5 percent per year based on information from the U.S. Treasury, except where noted in Table No. 3-1.
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.
6. Debt service has been projected based on information provided by the City, as shown on Table No. 3-5.
7. Capital improvement expenditures have been estimated each year, based on a review of the City's Capital Improvement Plan. Table No. 3-6 shows the detail of the planned capital expenditures, which include \$5,000,000 per year for undergrounding. Although the undergrounding expenditures may be considered optional, they have been included in the revenue requirements to be recovered from rate.
8. Gross receipts tax is included both as an expense and a revenue, while other taxes are not included since they are collected for the City's General Fund. The gross receipts tax is levied on the revenues of the seller of electricity. Payment of the gross receipts tax to the State is an operating expense and the billing to Winter Park customers is an operating revenue. The State sales tax and utility taxes are taxes on the customer purchasing the goods and are not expenses of the electric utility. Electric utility taxes go to Orange County for the fourteen electric customers in unincorporated Orange County. The rest of the Winter Park electric customers are all inside the City limits. All utility taxes billed to those customers goes to the City's General Fund.
9. The amount for the Transfer to the General Fund has been based on an equivalent franchise fee of 6 percent of revenues.
10. Projected revenues from existing rates for fiscal year 2020 calculated on a detailed analysis by customer class are shown on Table No. 3-2.
11. 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.
12. Projected Revenues from the Fuel Cost Recovery Factor are based on costs shown on Table No. 3-4.
13. Projected revenues from existing rates for fiscal years 2021 through 2024 have been estimated based on the projected increases in sales from 2020 levels of 0.5 percent per year.
14. Bulk Power expenses have been reduced from the FY 2020 Budget for the Test Year to reflect the lower costs of fuel experienced in the earlier months of FY 2020.
15. Warehousing costs have been reduced from the Test Year to FY 2021 based on one less inventory specialist position.

16. Utility Billing costs have been increased from the Test Year to FY 2021 since Utility Billing is one of the last applications from the legacy ERP computer system being used, and therefore, more of the annual support costs are allocated to Utility Billing.
17. Meter Servicing costs have been increased from the Test Year to FY 2021 based on additional meters being purchased to replace aging meters.
18. An allowance for contingency was included as the difference between projected revenues and appropriation.
19. An allowance for replenishing Cash Reserves to build the cash balance of the Electric Fund through FY 2022.
20. Fuel Cost Recovery revenues are projected to drop in the Test Year, then rise in FY2021, since in FY2020, funds were transferred from the Rate Stabilization Fund to lower the Fuel Cost Recovery during the pandemic. The amount in FY2021 was based on the City's projection of costs based on its wholesale contracts.

The underlying assumptions for the Test Year on which rates are being analyzed do not vary significantly and the revenue requirements are stable, ranging from \$44.9 million to \$45.9 million over the Study Period.

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 equal to the cost of providing service on a system wide basis. The projected differences are summarized as follows.

Description	Projected				
	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Net Revenue Requirements	\$44,912,177	\$44,270,456	\$44,662,613	\$45,622,904	\$45,975,542
Total Existing Rate Revenue	44,912,177	44,270,455	44,662,613	45,060,160	45,463,192
Difference	(\$0)	(\$0)	\$0	(\$562,744)	(\$512,349)
Percent of Base and Fuel Revenue	0.0%	0.0%	0.0%	-1.4%	-1.3%

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Projected Revenue Requirements and Existing Rate Revenues

Fiscal Year Ending September 30

Ln. No.	Description	Amended Budget 2020 [1]	Adjustments to Amended Budget 2020	Test Year Revenue Requirements	2021 Revenue Requirements	2022 Revenue Requirements	2023 Revenue Requirements	2024 Revenue Requirements
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Operating Expenses [2]							
1	Operations							
2	Bulk Power [3]	\$19,696,363	(\$1,000,000)	\$18,696,363	\$18,291,563	\$18,739,472	\$19,253,432	\$19,800,728
3	Transmission [4]	3,357,884	(3,357,884)	0	0	0	0	0
4	Gross Receipts Tax	1,152,998	0	1,152,998	1,073,749	1,084,486	1,095,331	1,106,285
5	Electric Capital	1,180,000	0	1,180,000	1,203,600	1,227,672	1,252,225	1,277,270
6	Other Operations	1,836,636	0	1,836,636	2,071,764	2,123,695	2,180,517	2,230,254
7	Total Operations	27,223,881	(4,357,884)	22,865,997	22,640,676	23,175,326	23,781,506	24,414,536
8	Undergrounding [5]	6,163,873	(1,738,873)	4,425,000	5,000,000	5,000,000	5,000,000	5,000,000
9	Tree Trimming	656,996	0	656,996	644,061	623,110	603,905	610,236
10	Warehousing	378,031	0	378,031	293,582	301,704	313,346	323,995
11	Street Lighting	480,000	0	480,000	510,000	517,650	528,003	543,843
12	Utility Billing	713,923	0	713,923	877,483	893,926	916,723	946,354
13	Meter Servicing	388,618	0	388,618	725,037	737,719	754,564	277,358
14	Administration	1,148,486	0	1,148,486	1,460,843	1,491,324	1,536,238	1,587,117
15	Total Operating Expenses	37,153,808	(6,096,757)	31,057,051	32,151,682	32,740,760	33,434,285	33,703,440
	Other Revenue Requirements							
16	Debt Service [6]	4,791,526	0	4,791,526	4,701,764	4,703,917	4,686,940	4,680,803
17	Interfund Administrative Services	1,728,412	0	1,728,412	1,740,681	1,772,013	1,825,174	1,879,929
18	Transfer to General Fund [7]	2,545,301	0	2,545,301	2,621,316	2,660,721	2,707,374	2,728,533
19	Other Transfers	255,698	0	255,698	253,317	248,101	249,293	262,999
20	Contingency	2,219,838	0	2,219,838	2,219,838	2,219,838	2,219,838	2,219,838
21	Replenish Cash Reserves [8]	0	2,314,351	2,314,351	581,858	317,263	500,000	500,000
22	Total Other Revenue Requirements	11,540,775	2,314,351	13,855,126	12,118,774	11,921,853	12,188,619	12,272,102
23	TOTAL REVENUE REQUIREMENTS	48,694,583	(3,782,406)	44,912,177	44,270,456	44,662,613	45,622,904	45,975,542
	Projected Revenue From Sales [9]							
24	Existing Base Rate Revenues	29,990,760	281,741	30,272,501 [10]	29,334,054	29,480,724	29,628,128	29,776,268
25	Fuel Cost Recovery [11]	12,156,576	(3,324,094)	8,832,482 [10]	10,089,986	10,292,542	10,499,165	10,709,936
26	Fuel Cost Stabilization Fund	0	1,000,000	1,000,000	0	0	0	0
27	Other Revenue [12]	6,529,606	(1,722,412)	4,807,194	4,846,416	4,889,346	4,932,867	4,976,988
28	TOTAL REVENUES FROM SALES	48,676,942	(3,764,765)	44,912,177	44,270,455	44,662,613	45,060,160	45,463,192
29	Revenue Surplus or (Deficiency)	(\$17,641)	\$17,641	(\$0)	(\$0)	\$0	(\$562,744)	(\$512,349)
	Surplus or (Deficiency) as a % of:							
30	Existing Base Rate Revenues			0.0%	0.0%	0.0%	-1.9%	-1.7%
31	Existing Base Rate and Fuel Revenues			0.0%	0.0%	0.0%	-1.4%	-1.3%

CITY OF WINTER PARK, FLORIDA
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Footnotes to Table No. 3-1

- [1] Based on the 2020 Amended Budget and the 2021 Ten Year Pro Forma provided by the City.
- [2] Unless otherwise noted, operating expenses are based on the 2020 Amended Budget, and the 2021 Ten Year Pro Forma.
- [3] Based on the Power Costs shown on Table No. 3-4.
- [4] Effective January 1, 2020, the only transmission expense is for Duke Energy transmission, which is included in the Bulk Power expense.
- [5] Removal of \$1,738,2873 for Fairbanks Avenue undergrounding funded by the Florida Department of Transportation.
- [6] Based on the Debt Service schedule shown on Table No. 3-5.
- [7] Calculated at 6% of Revenue Requirements for fiscal years 2021-2024.
- [8] Additional funding to replenish cash reserves.
- [9] Based on currently effective rates. Assumes sales of approximately 420,000,000 kWh in 2020, 407,000,000 kWh in 2021 and 0.5% growth in sales in 2022 through 2024.
- [10] From Table No. 3-2, Page 2.
- [11] Based on the fuel costs shown on Table No. 3-4.
- [12] From Table No. 3-3.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Projected Revenues at
EXISTING RATES
Fiscal Year Ending September 30, 2020

Ln. No.	Customer Class Description (a)	Existing Rate (b)	Billing Determinants (c)	Base Rate Revenue (d)	Fuel Cost Recovery (e)	Total Revenue (f)
Residential						
1	Customer Charge	\$ 16.98	146,156	\$ 2,481,729	\$ -	\$ 2,481,729
2	Energy Charge < 1,000 kWhs	\$ 0.06624	113,672,573	7,529,671	-	7,529,671
3	Energy Charge > 1,000 kWhs	\$ 0.08840	74,169,427	6,556,577	-	6,556,577
4	Fuel Cost Recovery Factor < 1,000 kWhs	\$ 0.01708	113,672,573	-	1,941,528	1,941,528
5	Fuel Cost Recovery Factor > 1,000 kWhs	\$ 0.02708	74,169,427	-	2,008,508	2,008,508
6	Total Residential			\$ 16,567,977	\$ 3,950,036	\$ 20,518,013
Commercial						
General Service Non-Demand						
7	Customer Charge	\$ 17.55	13,522	\$ 237,311	\$ -	\$ 237,311
8	Energy Charge	\$ 0.07368	11,216,906	826,462	-	826,462
9	Fuel Cost Recovery Factor	\$ 0.02103	11,216,906	-	235,892	235,892
10	<i>Subtotal GSND</i>			\$ 1,063,773	\$ 235,892	\$ 1,299,664
General Service Non-Demand (100 % LF)						
11	Customer Charge	\$ 18.38	480	\$ 8,822	\$ -	\$ 8,822
12	Energy Charge	\$ 0.03736	446,829	16,694	-	16,694
13	Fuel Cost Recovery Factor	\$ 0.02103	446,829	-	9,397	9,397
14	<i>Subtotal GSND (100% LF)</i>			\$ 25,516	\$ 9,397	\$ 34,913
General Service Demand						
15	Customer Charge - Secondary	\$ 18.28	12,564	\$ 229,670	\$ -	\$ 229,670
16	Customer Charge - Primary	\$ 231.26	12	2,775	-	2,775
17	Energy Charge	\$ 0.04216	135,754,640	5,723,416	-	5,723,416
18	Fuel Cost Recovery Factor	\$ 0.02103	135,754,640	-	2,854,920	2,854,920
19	Demand Charge	\$ 5.05	395,953	1,999,562	-	1,999,562
20	<i>Subtotal General Service Demand</i>			\$ 7,955,423	\$ 2,854,920	\$ 10,810,343
General Service Demand Time of Use						
21	Customer Charge - Secondary	\$ 29.01	235	\$ 6,817	\$ -	\$ 6,817
22	Customer Charge - Primary	\$ 234.93	18	4,229	-	4,229
23	Energy Charge - On-Peak	\$ 0.07008	14,797,096	1,036,980	-	1,036,980
24	Energy Charge - Off-Peak	\$ 0.02843	45,630,611	1,297,278	-	1,297,278
25	Fuel Cost Recovery - On-Peak	\$ 0.02775	14,797,096	-	410,619	410,619
26	Fuel Cost Recovery - Off-Peak	\$ 0.01882	45,630,611	-	858,768	858,768
27	Base Demand Charge	\$ 1.27	116,302	147,704	-	147,704
28	On-Peak Demand Charge	\$ 3.84	114,031	437,879	-	437,879
29	Primary Demand Charge Credit	\$ (0.35)	67,650	(23,678)	-	(23,678)
30	<i>Subtotal General Service Demand TOU</i>			\$ 2,907,210	\$ 1,269,388	\$ 4,176,598
31	Total Commercial			\$ 11,951,922	\$ 4,369,596	\$ 16,321,518

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Projected Revenues at
EXISTING RATES
Fiscal Year Ending September 30, 2020

Ln. No.	Customer Class Description (a)	Existing Rate (b)	Billing Determinants (c)	Base Rate Revenue (d)	Fuel Cost Recovery (e)	Total Revenue (f)
Public Authority						
General Service Non-Demand						
32	Customer Charge Secondary	\$ 17.55	2,203	\$ 38,663	\$ -	\$ 38,663
33	Energy Charge	\$ 0.07368	1,315,157	96,901	-	96,901
34	Fuel Cost Recovery Factor	\$ 0.02103	1,315,157	-	27,658	27,658
General Service Non-Demand (100 % LF)						
35	Customer Charge 100 % LF	\$ 18.38	276	5,073	-	5,073
36	Energy Charge 100 % LF	\$ 0.03736	103,496	3,867	-	3,867
37	Fuel Cost Recovery Factor	\$ 0.02103	103,496	-	2,177	2,177
General Service Demand						
38	Customer Charge - Secondary	\$ 18.28	721	13,180	-	13,180
39	Energy Charge	\$ 0.04216	13,116,608	552,996	-	552,996
40	Fuel Cost Recovery Factor	\$ 0.02103	13,116,608	-	275,842	275,842
41	Demand Charge	\$ 5.05	50,746	256,265	-	256,265
General Service Demand Time of Use						
42	Customer Charge Secondary	\$ 29.01	12	348	-	348
43	Customer Charge Primary	\$ 234.93	12	2,819	-	2,819
44	Energy Charge - On-Peak	\$ 0.07008	2,069,791	145,051	-	145,051
45	Energy Charge - Off-Peak	\$ 0.02843	5,582,918	158,722	-	158,722
46	Fuel Cost Recovery - On-Peak	\$ 0.02775	2,069,791	-	57,437	57,437
47	Fuel Cost Recovery - Off-Peak	\$ 0.01882	5,582,918	-	105,071	105,071
48	Base Demand Charge	\$ 1.27	22,858	29,029	-	29,029
49	On-Peak Demand Charge	\$ 3.84	22,713	87,219	-	87,219
50	Primary Demand Charge Credit	\$ (0.35)	42,552	(14,893)	-	(14,893)
51	Total Public Authority			<u>\$ 1,375,240</u>	<u>\$ 468,184</u>	<u>\$ 1,843,424</u>
Lighting						
52	Residential - Fuel Cost Recovery	\$ 0.02103	76,718	\$ 14,545	\$ 1,613	\$ 16,158
53	Commercial - Fuel Cost Recovery	\$ 0.02103	2,047,230	<u>362,817</u>	<u>43,053</u>	<u>405,870</u>
54	Total Lighting			<u>\$ 377,362</u>	<u>\$ 44,667</u>	<u>\$ 422,029</u>
55	TOTAL SYSTEM RATE REVENUES			<u>\$ 30,272,501</u>	<u>\$ 8,832,482</u>	<u>\$ 39,104,983</u>
56	Other Revenues					<u>5,807,194</u>
57	TOTAL SYSTEM REVENUE					<u>\$ 44,912,177</u>

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Other Electric Revenues

Fiscal Year Ending September 30

Ln. No.	Description	Amended Budget 2020*	Adjustments to Budget	Adjusted Test Year Revenues
	(a)	(b)	(c)	(d)
	<u>Other Electric Revenues</u>			
1	Franchise Fee	\$2,528,840	\$16,461	\$2,545,301
2	Gross Receipts Tax	1,152,998	0	\$1,152,998
3	Contribution in Aid of Construction	500,000	0	500,000
4	Contribution from Water and Sewer	181,995	0	181,995
5	Carry Forward - Capital Projects	1,738,873	(1,738,873)	0
6	Miscellaneous Service Charges	1,500	0	1,500
7	Connect Fees	20,000	0	20,000
8	Turn On/Off Charges	92,000	0	92,000
9	Pole Attachment Fees	115,000	0	115,000
10	Equipment Rental	70,400	0	70,400
11	Temporary Pole Service	10,000	0	10,000
12	Surge and Wire Protection	73,000	0	73,000
13	Residential Underground Service Drops	80,000	0	80,000
14	Bad Debt Expense	(62,000)	0	(62,000)
15	Demolition Disconnect	27,000	0	27,000
16	Interest Paid on Customer Deposits	(25,000)	0	(25,000)
17	Sale of Surplus Materials	25,000	0	25,000
18	Total Other Electric Revenues	<u>\$6,529,606</u>	<u>(\$1,722,412)</u>	<u>\$4,807,194</u>

*Based on the Budgeted 2020 Electric Revenue Fund provided by the City.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Calculation of Fuel Cost Recovery Factor

Fiscal Year Ending September 30

Ln. No.	Description (a)	2020 (b)	2021 (c)	2022 (d)	2023 (e)	2024 (f)
	<u>Power Costs [1]</u>					
1	FMPA		\$7,513,787	\$7,664,626	\$7,818,493	\$7,975,449
2	OUC		2,471,952	2,521,577	2,572,197	2,623,834
3	Covanta		5,570,362	5,682,187	5,796,257	5,912,617
4	Purchased Transmission		2,735,462	2,790,376	2,846,393	2,903,534
5	Total Power Costs	<u>\$19,696,363</u>	<u>\$18,291,563</u>	<u>\$18,658,766</u>	<u>\$19,033,341</u>	<u>\$19,415,435</u>
6	Total Energy Purchased (kWh)	<u>436,590,437</u>	<u>423,076,923</u>	425,192,308	427,318,269	429,454,861
7	Total Cost Per kWh Purchased	<u>\$0.04511</u>	<u>\$0.04323</u>	<u>\$0.04388</u>	<u>\$0.04454</u>	<u>\$0.04521</u>
8	Total Energy Sales (kWh) [2]	<u>420,000,000</u>	<u>407,000,000</u>	409,035,000	411,080,175	413,135,576
9	Total Cost Per kWh Sold	<u>\$0.04690</u>	<u>\$0.04494</u>	<u>\$0.04562</u>	<u>\$0.04630</u>	<u>\$0.04700</u>
10	Total Fuel Cost (\$)	<u>\$12,156,576</u>	<u>\$10,089,986</u>	10,292,542	10,499,165	10,709,936
11	Total Fuel Cost Per kWh Sold	<u>\$0.02894</u>	<u>\$0.02479</u>	<u>\$0.02516</u>	<u>\$0.02554</u>	<u>\$0.02592</u>

[1] Based on information provided by the City.

[2] FY 2020 from Table No. 2-2; FY 2021 provided by the City; FY 2022-2024 based on a growth rate of 0.5% per year.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

[Debt Service Detail \[1\]](#)

Fiscal Year Ending September 30

Ln. No.	Description	Projected				
		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	(a)	(b)	(c)	(d)	(e)	(f)
	<u>Electric Revenue Bonds</u>					
	<u>Series 2010</u>					
1	Principal	\$ 250,000	\$ 255,000	\$ 265,000	\$ 270,000	\$ 280,000
2	Interest	<u>109,920</u>	<u>101,840</u>	<u>93,520</u>	<u>84,960</u>	<u>76,160</u>
3	Total Series 2010	\$ 359,920	\$ 356,840	\$ 358,520	\$ 354,960	\$ 356,160
	<u>Series 2014</u>					
4	Principal	\$ 345,000	\$ 355,000	\$ 365,000	\$ 375,000	\$ 385,000
5	Interest	<u>167,757</u>	<u>158,166</u>	<u>148,302</u>	<u>138,165</u>	<u>127,753</u>
6	Total Series 2014	\$ 512,757	\$ 513,166	\$ 513,302	\$ 513,165	\$ 512,753
	<u>Series 2014A</u>					
7	Principal	\$ 265,000	\$ 275,000	\$ 280,000	\$ 290,000	\$ 300,000
8	Interest	<u>143,446</u>	<u>135,373</u>	<u>127,076</u>	<u>118,554</u>	<u>109,733</u>
9	Total Series 2014A	\$ 408,446	\$ 410,373	\$ 407,076	\$ 408,554	\$ 409,733
	<u>Series 2016</u>					
10	Principal	\$ 640,000	\$ 670,000	\$ 705,000	\$ 740,000	\$ 775,000
11	Interest	<u>591,418</u>	<u>558,668</u>	<u>524,293</u>	<u>488,168</u>	<u>450,293</u>
12	Total Series 2016	\$ 1,231,418	\$ 1,228,668	\$ 1,229,293	\$ 1,228,168	\$ 1,225,293
	<u>Series 2019</u>					
13	Principal	\$ 400,000	\$ 1,360,000	\$ 1,395,000	\$ 1,450,000	\$ 1,485,000
14	Interest	<u>636,464</u>	<u>846,510</u>	<u>798,573</u>	<u>749,070</u>	<u>698,001</u>
15	Total Series 2019	\$ 1,036,464	\$ 2,206,510	\$ 2,193,573	\$ 2,199,070	\$ 2,183,001
16	Total Existing Debt Service	<u>\$ 3,549,005</u>	<u>\$ 4,715,557</u>	<u>\$ 4,701,764</u>	<u>\$ 4,703,917</u>	<u>\$ 4,686,940</u>
17	Future Debt Service [2]	0	0	0	0	0
18	TOTAL DEBT SERVICE	<u>\$ 3,549,005</u>	<u>\$ 4,715,557</u>	<u>\$ 4,701,764</u>	<u>\$ 4,703,917</u>	<u>\$ 4,686,940</u>

[1] Amounts shown reflect the allocable share of accrued payments of principal and interest and exclude interest expense funded from bond proceeds.

[2] Amounts shown assume no new debt service in Fiscal Years 2020 - 2024.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Capital Improvement Projects Funded By Electric Services

Line No.	Projects	<i>Fiscal Years Ending September 30</i>				Estimated Total
		2021	2022	2023	2024	
	(a)	(b)	(c)	(d)	(e)	(f)
	<u>Proposed Expenditure Descriptions [1]</u>					
1	Undergrounding Electric Lines, R&R, and other improvements required to provide service and improve reliability of electric service.	\$1,203,600	\$1,227,672	\$1,252,225	\$1,277,270	\$4,960,767
2	Undergrounding Electric Lines	5,000,000	5,000,000	5,000,000	5,000,000	20,000,000
3	Solar Awning Construction	500,000	-	-	-	500,000
4	Facility replacement of flooring, roofing, air conditioning, painting, & misc. other [2]	50,000	50,000	50,000	50,000	200,000
5	Information Technology Infrastructure Upgrades [3]	87,500	87,500	87,500	100,000	362,500
6	Total Proposed Expenditures	<u>\$6,841,100</u>	<u>\$6,365,172</u>	<u>\$6,389,725</u>	<u>\$6,427,270</u>	<u>\$26,023,267</u>
	<u>Funding Source</u>					
7	Electric System Revenues	6,841,100	6,365,172	6,389,725	6,427,270	26,023,267
8	Total Funding Sources	<u>\$6,841,100</u>	<u>\$6,365,172</u>	<u>\$6,389,725</u>	<u>\$6,427,270</u>	<u>\$26,023,267</u>

[1] Amounts shown are provided and projected by the City.

[2] A Public Works Department project where funding is allocated 65% to the General Fund, 25% to the Water and Sewer Fund and 10% to the Electric Fund.

[3] An Information Technology project where funding is allocated 50% to the General Fund, 25% to the Water and Sewer Fund and 25% to the Electric Fund.

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 2020 Test Year Revenue Requirements were developed in the COS model and summarized below.

<u>Function and Description</u>	<u>Test Year Amount</u>
<i>Production.</i> Those costs associated with generating or purchasing power and delivering that power to the utility's bulk transmission system	\$23,423,367
<i>Transmission and Distribution.</i> 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	\$19,581,738
<i>Customer.</i> Those costs that are related to the number, type and size of customers	<u>\$1,907,072</u>
Total	<u>\$44,912,177</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 readiness-to-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.

Allocation methodologies are based on industry practices and guidelines from the Florida Public Service Commission

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 load research information provided by the City and historical demand and energy relationships filed with the Florida Public Service Commission (PSC) by the investor-owned utilities in Florida for 2018. The demand allocation factors are based on the estimated annual coincident and non-coincident peak demands.

The City's production related demand costs are based on the monthly demand charges shown on its purchased power bills. The demand charges are based on the City's system peak demand for that month. The contribution of each class to the monthly system peak is the basis for allocating the purchased demand cost. Over a 12 month period, the class load coincident with the time of the system peak each month allocates those costs (12 CP method).

The distribution facilities must be able to serve a class of customers at the time of the non-coincident annual peak demand. Distribution demand related costs are allocated based on the non-coincident annual peak demand for that class.

Table No. 4-2 summarizes the demand allocation factors. Table No. 4-5 shows a comparison of load research results for the City and 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 City's production related energy costs are based on the monthly energy charges shown on its

purchased power bills. Those costs are allocated based on the energy used by each class for that month.

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 Duke Energy 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.

Table No. 4-1

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Functionalization of Test Year Revenue Requirements

Ln		<i>FY 2020</i>
<u>No</u>	<u>Description</u>	<u>Test Year Amount</u>
1	Production	\$ 23,423,367
2	Transmission and Distribution	\$ 19,581,738
3	Customer	\$ 1,907,072
4	TOTAL REVENUE REQUIREMENTS	\$ 44,912,177

CITY OF WINTER PARK FLORIDA
Electric Cost of Service Study

Summary of Demand Allocation Factors

Ln. No.	Customer Class (a)	Average 12 CP		Average Demand			PSC 12 CP Methodology				NCP Demand	
		Demand @ Source (kW)	Percent of Total (%)	2020 Energy at Source (MWh)	Average Demand (kW)	Percent of Total (%)	Avg. 12 CP @12/13 (kW)	Avg. kW @1/13 (kW)	Total		Demand @ Source (kW)	Percent of Total (%)
		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
1	Residential	40,528	49.83%	195,262	22,290	44.72%	37,410	1,715	39,125	49.58%	50,430	51.97%
2	Commercial General Service Non Demand	2,580	3.17%	11,660	1,331	2.67%	2,381	102	2,484	3.15%	3,060	3.15%
3	GS Non Demand (100% LF)	59	0.07%	464	53	0.11%	54	4	58	0.07%	59	0.06%
4	General Service Demand	25,530	31.39%	141,117	16,109	32.32%	23,566	1,239	24,805	31.43%	28,715	29.59%
5	General Service Demand TOU	7,967	9.80%	62,815	7,171	14.39%	7,354	552	7,906	10.02%	9,561	9.85%
6	Public Authority	4,173	5.13%	23,064	2,633	5.28%	3,852	203	4,054	5.14%	4,693	4.84%
7	Lighting	504	0.62%	2,208	252	0.51%	465	19	485	0.61%	526	0.54%
8	TOTAL SYSTEM	81,340	100.00%	436,590	49,839	100.00%	75,083	3,834	78,917	100.00%	97,045	100.00%

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Development of Demand Allocation Factors

Ln. No.	Customer Class	Total FY 2020 Energy (MWh)	Average 12 CP					Non-Coincident Peak				
			Load Factor (%) [1]	Demand @ Meter (kW)	Delivery Efficiency	Demand @ Source (kW)	Percent of Total (%)	Load Factor (%) [1]	Demand @ Meter (kW)	Delivery Efficiency	Demand @ Source (kW)	Percent of Total (%)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
1	Residential	187,842	55.00%	38,988	0.9620	40,528	49.83%	44.20%	48,514	0.9620	50,430	51.97%
2	Commercial General Service Non Demand	11,217	51.60%	2,482	0.9620	2,580	3.17%	43.50%	2,944	0.9620	3,060	3.15%
3	GS Non Demand (100% LF)	447	90.00%	57	0.9620	59	0.07%	90.00%	57	0.9620	59	0.06%
4	General Service Demand	135,755	63.10%	24,560	0.9620	25,530	31.39%	56.10%	27,624	0.9620	28,715	29.59%
5	General Service Demand TOU	60,428	90.00%	7,665	0.9620	7,967	9.80%	75.00%	9,198	0.9620	9,561	9.85%
6	Public Authority	22,188	63.10%	4,014	0.9620	4,173	5.13%	56.10%	4,515	0.9620	4,693	4.84%
7	Lighting	2,124	50.00%	485	0.9620	504	0.62%	47.90%	506	0.9620	526	0.54%
8	TOTAL SYSTEM	420,000		78,249		81,340	100.00%		93,357		97,045	100.00%

[1] Average 12 CP and NCP Load Factors are based on information provided by the City and Duke Energy's load research filed with the FPSC.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Energy Allocation Factors
Fiscal Year 2020

Ln. No.	Customer Class (a)	Energy (MWh) [1]		Allocation Factors (%)	
		Energy Sales (b)	Net Generation (c)	Energy Sales (d)	Net Generation (e)
1	Residential	187,842	195,262	44.72%	44.72%
	Commercial				
2	General Service Non Demand	11,217	11,660	2.67%	2.67%
3	GS Non Demand (100% LF)	447	464	0.11%	0.11%
4	General Service Demand	135,755	141,117	32.32%	32.32%
5	General Service Demand TOU	60,428	62,815	14.39%	14.39%
6	Public Authority	22,188	23,064	5.28%	5.28%
7	Lighting	2,124	2,208	0.51%	0.51%
8	TOTAL SYSTEM	420,000	436,590	100.00%	100.00%

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

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Customer Allocation Factors
Fiscal Year 2020

Ln. No.	Customer Class (a)	Unweighted Customers		Weighted Customers			Unweighted - No Lighting	
		Customers (b)	Factor (c)	Weighting Factor ^[1] (d)	Customers ^[2] (e)	Factor (f)	Customers (g)	Factor (h)
1	Residential	12,180	78.68%	1.00	12,180	73.95%	12,180	78.68%
2	Commercial							
2	General Service Non Demand	1,127	7.28%	1.30	1,465	8.89%	1,127	7.28%
3	GS Non Demand (100% LF)	40	0.26%	1.30	52	0.32%	40	0.26%
4	General Service Demand	1,048	6.77%	1.30	1,362	8.27%	1,048	6.77%
5	General Service Demand TOU	21	0.14%	1.30	27	0.17%	21	0.14%
6	Public Authority	269	1.74%	1.30	349	2.12%	269	1.74%
7	Lighting	795	5.14%	1.30	1,034	6.28%	795	5.14%
8	TOTAL SYSTEM	<u>15,479</u>	<u>100.00%</u>		<u>16,469</u>	<u>100.00%</u>	<u>15,479</u>	<u>100.00%</u>

[1] Based on Duke Energy Florida customer charges.

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

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Comparison of Load Research Results *

Ln. No.	Utility (a)	Rate Schedule (b)	12 CP Load Factor (c)	NCP Load Factor (d)
<u>Residential Service</u>				
1	Duke Energy Florida	RS-1	54.8%	37.0%
2	Florida Power & Light Company	RS-1	66.2%	50.1%
3	Tampa Electric Company	RS	56.0%	45.0%
4	Gulf Power Company	RS	58.4%	38.8%
5	City of Winter Park	RS	55.0%	44.2%
<u>General Service Non-Demand</u>				
6	Duke Energy Florida	GS-1 (no demand breakpoint)	57.6%	45.1%
7	Florida Power & Light Company	GS-1 (less than 21kw)	62.3%	53.1%
8	Tampa Electric Company	GS (less than 50 kw)	58.0%	43.0%
9	Gulf Power Company	GS (less than 20 kw)	57.4%	43.5%
10	City of Winter Park	GS	51.6%	43.5%
<u>General Service Demand</u>				
11	Duke Energy Florida	GSD-1 (above 24,000 kwh/year)	74.2%	62.6%
12	Florida Power & Light Company	GSD-1 (21 - 499 kw)	72.1%	64.0%
13	Tampa Electric Company	GSD-1 (50 - 999 kw)	75.0%	63.0%
14	Gulf Power Company	GSD-1 (20 - 499 kw)	74.4%	56.4%
15	City of Winter Park	GSD	59.8%	49.3%

* The information shown for the investor owned electric utilities reflects the results of 2017-2018 Load Research reported to the PSC. The load factors shown for the City of Winter Park are based on current load research analyses.

Section 5

ALLOCATED COST OF SERVICE

General

As one of the factors considered in the development of the proposed rate options 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 Future Rate Classifications

The present customer classifications are as follows:

- Residential
- Commercial
 - General Service Non-Demand
 - General Service Non-Demand (100% Load Factor)
 - General Service Demand
 - General Service Demand Time of Use
- Public Authority
- Lighting

The present customer classifications are typical for municipal electric utilities in Florida. In the future, the City may want to investigate additional rate classifications such as:

- Residential Time of Use Rate
- Solar Subscription Rate
- Electric Vehicle Rate

A summary of the pros and cons of possible new rate designs and classifications is shown on Table No. 5-4.

Allocation and Assignment of the Cost of Service

The allocated cost of service was developed, along with the rate adjustments 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 results of the COS study by customer class.

The projected Test Year revenues under the existing rates and charges, the rate adjustments, and the percentages necessary to recover the projected cost of service for each of the major rate classifications, as summarized from the COS model are as follows:

Customer Class	Test Year 2020		
	Total Existing	Rate	
	Revenue	Adjustments	
	(\$000)	(\$000)	(%) [1]
Residential	\$23,416	(\$601)	-2.9%
Commercial			
General Service Non-Demand	1,488	(17)	-1.3%
GS Non-Demand (100% Load Factor)	40	(0)	-0.4%
General Service Demand	12,545	519	4.8%
General Service Demand TOU	4,809	50	1.2%
Public Authority	2,129	48	2.6%
Lighting	485	1	0.3%
Total System	\$44,912	\$0	0.0%

[1] Percent of base rate and fuel adjustment revenues.

Rate adjustments based on moving 60% toward the Cost of Service.

Based on the cost of service and rate adjustments for the Test Year and the projected revenue requirements, the rate adjustments for Fiscal Year 2021 can be estimated as follows:

ALLOCATED COST OF SERVICE

Customer Class	Fiscal Year 2021		
	Total Existing	Rate	
	Revenue	Adjustments	
	(\$000)	(\$000)	(%) [1]
Residential	\$23,081	(\$593)	-2.9%
Commercial			
General Service Non-Demand	1,467	(17)	-1.3%
GS Non-Demand (100% Load Factor)	39	(0)	-0.4%
General Service Demand	12,366	511	4.8%
General Service Demand TOU	4,740	49	1.2%
Public Authority	2,099	47	2.6%
Lighting	478	1	0.3%
Total System	\$44,270	\$0	0.0%

[1] Percent of base rate and fuel adjustment revenues.

Rate adjustments based on moving 60% toward the Cost of Service.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Test Year Cost of Service by Customer Class

Table No. 5-1
Page 1 of 2

Line No.	Description	Total	Allocation Factor	Residential	General Service Non-Demand	General Service Non-Demand (100% LF)	General Service Demand	General Service Demand TOU	Public Authority	Lighting	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	<u>Production</u>										
2	Production Demand related										
3	Production - D	9,416,193	12 CP	4,668,288	296,328	6,975	2,959,695	943,338	483,738	57,832	9,416,193
4	Blank	0	N/A	0	0	0	0	0	0	0	0
5	Blank	0	N/A	0	0	0	0	0	0	0	0
6	Blank	0	N/A	0	0	0	0	0	0	0	0
7	Blank	0	N/A	0	0	0	0	0	0	0	0
8	Blank	0	N/A	0	0	0	0	0	0	0	0
9	Production Energy related										
10	Fuel & PP	14,007,173	Test Year Sales - kWh	6,264,608	374,088	14,902	4,527,473	2,015,289	739,978	70,835	14,007,173
11	Variable O&M	0	N/A	0	0	0	0	0	0	0	0
12	Blank	0	N/A	0	0	0	0	0	0	0	0
13	Blank	0	N/A	0	0	0	0	0	0	0	0
14	Production Direct Assignment										
15	Dir. Assignment A	0	N/A	0	0	0	0	0	0	0	0
16	Other	0	N/A	0	0	0	0	0	0	0	0
17	Total Production	23,423,367		10,932,896	670,417	21,877	7,487,168	2,958,627	1,223,716	128,666	23,423,367
18	Check	TRUE									
19		23,423,367									
20	<u>Transmission</u>										
21	Demand Related										
22	115 kV	0	N/A	0	0	0	0	0	0	0	0
23	69 kV	0	N/A	0	0	0	0	0	0	0	0
24	115 kV - Sub	0	N/A	0	0	0	0	0	0	0	0
25	69 kV - Sub	0	N/A	0	0	0	0	0	0	0	0
26	Blank	0	N/A	0	0	0	0	0	0	0	0
27	Blank	0	N/A	0	0	0	0	0	0	0	0
28	Direct Assignment										
29	Service 1	0	N/A	0	0	0	0	0	0	0	0
30	Service 2	0	N/A	0	0	0	0	0	0	0	0
31	Blank	0	N/A	0	0	0	0	0	0	0	0
32	Total Transmission	0		0	0	0	0	0	0	0	0
33	Check	TRUE									
34		0									
35	<u>Distribution</u>										
36	Demand Related										
37	Substat.	0	N/A	0	0	0	0	0	0	0	0
38	Prim-Dmd	0	N/A	0	0	0	0	0	0	0	0
39	Sec-Dmd	0	N/A	0	0	0	0	0	0	0	0
40	Total Demand	19,581,738	1 NCP	10,175,861	617,426	11,888	5,794,188	1,929,193	947,012	106,172	19,581,738
41	Blank	0	N/A	0	0	0	0	0	0	0	0
42	Blank	0	N/A	0	0	0	0	0	0	0	0
43	Customer Related										
44	Prim-Cust	0	N/A	0	0	0	0	0	0	0	0
45	Sec-Cust	0	N/A	0	0	0	0	0	0	0	0
46	Serv Drp	0	N/A	0	0	0	0	0	0	0	0
47	Trans-CR	0	N/A	0	0	0	0	0	0	0	0
48	Total Cust	0	N/A	0	0	0	0	0	0	0	0
49	Blank	0	N/A	0	0	0	0	0	0	0	0

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Test Year Cost of Service by Customer Class

Table No. 5-1
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Line No.	Description	Total	Allocation Factor	Residential	General Service Non-Demand	General Service Non-Demand (100% LF)	General Service Demand	General Service Demand TOU	Public Authority	Lighting	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
50											
51	Direct Assignment										
52	Lighting	0	N/A	0	0	0	0	0	0	0	0
53	Blank	0	N/A	0	0	0	0	0	0	0	0
54	Total Distribution	19,581,738		10,175,861	617,426	11,888	5,794,188	1,929,193	947,012	106,172	19,581,738
55	Check	TRUE									
56		19,581,738									
57	Customer										
58	Meters	691,711	Weighted Customers	519,069	62,430	2,216	58,062	1,168	14,885	33,881	691,711
59	Cust. Accounting	0	Weighted Customers	0	0	0	0	0	0	0	0
60	Cust. Service	1,215,361	Weighted Customers	912,022	109,692	3,894	102,018	2,052	26,153	59,530	1,215,361
61	Sales	0	Weighted Customers	0	0	0	0	0	0	0	0
62	Blank	0	N/A	0	0	0	0	0	0	0	0
63	Total Customer	1,907,072		1,431,091	172,121	6,110	160,080	3,220	41,038	93,411	1,907,072
64	Check	TRUE									
65		0									
66	Direct Assignments Other										
67	Lighting Adjustment	0	Lighting - # of Cust/Lights	(130,616)	0	0	(27,170)	0	(2,214)	160,000	0
68	Total Direct Assignment Other	0		(130,616)	0	0	(27,170)	0	(2,214)	160,000	0
69	Check	TRUE									
70											
71	Total Cost of Service	\$ 44,912,177		\$ 22,409,232	\$ 1,459,964	\$ 39,875	\$ 13,414,266	\$ 4,891,040	\$ 2,209,552	\$ 488,249	\$ 44,912,177
72	Check	TRUE									
73	Total Unit Cost (\$/kWh)			\$ 0.119	\$ 0.130	\$ 0.089	\$ 0.099	\$ 0.081	\$ 0.100	\$ 0.230	\$ 0.107
74	Base Rate Unit Cost (\$/kWh)			\$ 0.119	\$ 0.130	\$ 0.089	\$ 0.099	\$ 0.081	\$ 0.100	\$ 0.230	\$ 0.107
75											
76											
77	Revenue Adequacy Check										
78	TY Base Rate Revenue	\$30,272,501	TY Base Rate Rev	\$16,567,977	\$1,063,773	\$25,516	\$7,955,423	\$2,907,210	\$1,375,240	\$377,362	\$30,272,501
79	TY Other Revenue - FCR	8,832,482	Fuel Cost Recovery	3,950,036	235,892	9,397	2,854,920	1,269,388	468,184	44,667	8,832,482
80	TY FCR Rate Stabilization	1,000,000	Revenue Req	498,957	32,507	888	298,678	108,902	49,197	10,871	1,000,000
81	TY Other Revenue	4,807,194	Revenue Req	2,398,582	156,268	4,268	1,435,802	523,515	236,500	52,260	4,807,194
82	Subtotal	\$44,912,177		\$23,415,551	\$1,488,439	\$40,069	\$12,544,822	\$4,809,014	\$2,129,121	\$485,160	\$44,912,177
83	Existing Rate Unit Cost (\$/kwh)			\$ 0.125	\$ 0.133	\$ 0.090	\$ 0.092	\$ 0.080	\$ 0.096	\$ 0.228	\$ 0.107
85	TY Rate Revenue	\$44,912,177		\$23,415,551	\$1,488,439	\$40,069	\$12,544,822	\$4,809,014	\$2,129,121	\$485,160	\$44,912,177
86	TY Retail Rate Revenue	\$0	Other Revenue	0	0	0	0	0	0	0	0
87	TY Total Rate Revenue	\$44,912,177		\$23,415,551	\$1,488,439	\$40,069	\$12,544,822	\$4,809,014	\$2,129,121	\$485,160	\$44,912,177
88											
89	TY Rate Revenue Requirement	\$ 44,912,177		\$ 22,409,232	\$ 1,459,964	\$ 39,875	\$ 13,414,266	\$ 4,891,040	\$ 2,209,552	\$ 488,249	\$44,912,177
90	TY Other Retail Rate Revenue	0		0	0	0	0	0	0	0	0
91	TY Total Rate Revenue Requirement	\$44,912,177		\$22,409,232	\$1,459,964	\$39,875	\$13,414,266	\$4,891,040	\$2,209,552	\$488,249	\$44,912,177
92											
93	Difference \$ (Surplus)	(\$0)		\$1,006,319	\$28,476	\$194	(\$869,443)	(\$82,025)	(\$80,431)	(\$3,090)	(0)
94	Difference % (Surplus)	0.0%		4.9%	2.2%	0.6%	-8.0%	-2.0%	-4.4%	-0.7%	0.0%
95											
96	Rate Adjustment \$	\$0		(\$601,175)	(\$16,896)	(\$140)	\$518,896	\$50,119	\$47,929	\$1,266	0
97	Rate Adjustment %	0.0%		-2.9%	-1.3%	-0.4%	4.8%	1.2%	2.6%	0.3%	0.0%
98											

Table No. 5-2

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Classification of Test Year Revenue Requirements

Ln	Description	FY 2020	
No		Test Year Amount	
	Production		
1	Demand Related	\$ 9,416,193	
2	Energy Related	14,007,173	
3	Total Production	\$ 23,423,367	
	Transmission and Distribution		
4	Demand Related	\$ 19,581,738	
5	Customer Related	0	
6	Direct Assignment	0	
7	Total Distribution	\$ 19,581,738	
8	Customer (<i>Customer Related</i>)	1,907,072	
9	TOTAL REVENUE REQUIREMENTS	\$ 44,912,177	
10	Total Demand Related	\$ 28,997,932	65%
11	Total Energy Related	14,007,173	31%
12	Total Customer Related	1,907,072	4%
13	TOTAL REVENUE REQUIREMENTS	\$ 44,912,177	
14	Total Fixed Including All Demand Related	\$ 30,905,004	69%
15	Total Variable	14,007,173	31%
16	TOTAL REVENUE REQUIREMENTS	\$ 44,912,177	
17	Total Fixed Including Only Fixed Demand [1]	\$ 27,883,390	62%
18	Total Variable	17,028,788	38%
19	TOTAL REVENUE REQUIREMENTS	\$ 44,912,177	

[1] Excludes FMPA and OUC demand charges.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Results of the Cost of Service Analysis

Ln No	Customer Class (a)	Test Year 2020			
		Cost of Service (b)	Existing Revenues (c)	Difference (d)	Difference (%) (e)
1	Residential	\$22,409,232	\$23,415,551	\$1,006,319	4.9%
	Commercial				
2	General Service Non Demand	1,459,964	1,488,439	28,476	2.2%
3	GS Non Demand (100% LF)	39,875	40,069	194	0.6%
4	General Service Demand	13,414,266	12,544,822	(869,443)	-8.0%
5	General Service Demand TOU	4,891,040	4,809,014	(82,025)	-2.0%
6	Public Authority	2,209,552	2,129,121	(80,431)	-4.4%
7	Lighting	488,249	485,160	(3,090)	-0.7%
8	TOTAL	<u>\$44,912,177</u>	<u>\$44,912,177</u>	<u>(\$0)</u>	<u>0.0%</u>

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Rate Design Options Pros and Cons

RATE DESIGN OPTION	PROS	CONS
Increased Customer Charges	Helps recover fixed costs; closer to cost of service; consistent with industry trends	Greater percentage impact on low users
Residential Time of Use Rate	Provides option for customer to save; may improve system load factor and reduce system cost per kWh	Increased administrative costs
Electric Vehicle Rate	Promotes electric vehicle use; provides option for customer to save if the vehicle is charged during off-peak hours	Increased administrative costs
Solar Subscription Rate	Supports the future FMPS solar projects; provides option for customer to have solar power supply without rooftop solar; economies of scale compared to rooftop solar	Increased administrative costs
Large Commercial Interruptible Rate	Provides option for a large commercial customer willing and able to interrupt during peak periods and provides opportunity for customer and utility to save on power costs	Increased administrative costs; customer may not meet interruption requirements
Residential Demand Rate	Helps recover fixed costs through a demand charge; aligns more closely to the cost of service	Increased administrative costs; may be too great of an impact for customers with high demand and low energy usage; not common in Florida

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 options 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.

The PSC has oversight over the City's rate structure (not total rate revenue). The City submits its rate tariff sheets to the PSC for review whenever it makes changes. The PSC will review the rates to ensure they do not unduly burden any rate class to be benefit of another.

Rate Options

The existing rates and the rate options necessary to recover the revenue requirements are summarized on Table No. 6-1. The proposed rate options reflect the rate adjustments by class applied to the customer, demand and energy charges. Option 1 reflects an increase in the Residential customer charge to \$18 and a corresponding decrease in energy charges. Option 2 assumes maintaining the present customer charges. Option 3 reflects an increase in the Residential customer charge to \$30 and a corresponding

decrease in energy charges. Option 4 reflects a possible four block Residential energy charge. Table No. 6-5 summarizes the pros and cons of the four rate options. Table No. 6-2 shows calculation of the projected revenues at the Option 1 rates.

Customer Charge

As with most utilities, most of the costs of providing electric service are fixed, while the revenues are mostly recovered through a variable energy (kWh) charge. To mitigate this risk, many utilities are increasing the fixed customer charges and demand charges, while lowering the energy charges. This helps to recover more of the fixed costs if the energy usage declines. For Winter Park, the fixed costs are estimated to be between 62% and 69% of the total costs. The business risk for the City when the revenue is based mostly on a variable charge is that the City may not recover its necessary revenues. Since most of the City's costs are fixed, variations in weather (heating and cooling degree days), conservation, energy efficiencies and customer usage may have an adverse effect on the City recovering its fixed costs.

The existing customer charges do not recover the total fixed distribution and customer related costs. For the Residential class, Table No. 5-1 shows that the fixed distribution costs are \$10,175,861 and the fixed customer costs are \$1,431,091, for a total of \$11,606,952. Dividing this amount by the Residential number of customers of 12,180 equals \$953 per year, or approximately \$79 per month. In order to help recover the fixed costs of providing service to the customer, the customer charges in Options 1, 3, and 4 have been increased for each class of service. Table No. 6-3 provides an analysis of the Residential monthly fixed costs per customer. Table No. 6-4 shows a comparison of customer charges for various utilities in Florida. To mitigate the impact of increased customer charges on low income customers, the City may want to investigate establishing a fund to assist those customers.

Fuel Cost Adjustment

It is recommended that a separate rate component continue to be implemented that recovers the cost of fuel included in the purchased power. Only the fuel costs portion of bulk power purchases are passed through to the customer. The remaining bulk power costs are included in the base rates. It is proposed that this factor be calculated once a year and adjusted if necessary.

Summary

The following is a comparison of the projected Fiscal Year 2021 revenues produced by applying the projected billing determinants to the existing rates and the proposed rate options for each classification:

Customer Class	Fiscal Year 2021		
	Existing	Adjusted	Rate
	Revenue	Revenue	Adjustment
	(\$000)	(\$000)	(%) [1]
Residential	\$23,081	\$22,488	-2.9%
Commercial			
General Service Non-Demand	1,467	1,451	-1.3%
GS Non-Demand (100% Load Factor)	39	39	-0.4%
General Service Demand	12,366	12,877	4.8%
General Service Demand TOU	4,740	4,790	1.2%
Public Authority	2,099	2,146	2.6%
Lighting	478	479	0.3%
Total System	\$44,270	\$44,270	0.0%

[1] Percent of base rate and fuel adjustment revenues.

Rate adjustments based on moving 60% toward the Cost of Service.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Table No. 6-1
Page 1 of 2

Summary of Existing Rates and Rate Options

Ln. No.	Rate Description	Unit	Existing Rates Effective January 1, 2020	Option 1 Effective 2021	Option 2 Effective 2021	Option 3 Effective 2021	Option 4 Effective 2021
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Residential Service							
Schedule RS							
1	Monthly Customer Charge	\$/Mo.	\$16.98	\$18.00	\$16.98	\$30.00	\$30.00
<u>Energy Charges < 1,000 kWh's</u>							
2	Base	\$/kWh	\$0.06624	\$0.06240	\$0.06319	\$0.04602	-
3	Fuel Cost Recovery Factor	\$/kWh	\$0.01708	\$0.02015	\$0.02015	\$0.02015	\$0.02015
<u>Energy Charges > 1,000 kWh's</u>							
4	Base	\$/kWh	\$0.08840	\$0.08456	\$0.08535	\$0.08602	-
5	Fuel Cost Recovery Factor	\$/kWh	\$0.02708	\$0.03015	\$0.03015	\$0.03015	\$0.03015
<u>Base Energy Charges - Option 4</u>							
6	First 500 kWh	\$/kWh	-	-	-	-	\$0.03861
7	Next 500 kWh	\$/kWh	-	-	-	-	\$0.05861
8	Next 500 kWh	\$/kWh	-	-	-	-	\$0.07861
9	Additional kWh	\$/kWh	-	-	-	-	\$0.08861
General Service Non-Demand							
Rate Schedule GS-1							
<u>Monthly Customer Charges</u>							
10	Non Metered Accounts	\$/Mo.	\$7.11	\$8.00	\$7.11	\$12.00	\$12.00
	Metered Accounts						
11	Secondary Delivery Voltage	\$/Mo.	\$17.55	\$18.00	\$17.55	\$30.00	\$30.00
12	Primary Delivery Voltage	\$/Mo.	\$221.86	\$225.00	\$221.86	\$380.00	\$380.00
<u>Energy and Demand Charges All kWh's</u>							
13	Base	\$/kWh	\$0.07368	\$0.07200	\$0.07254	\$0.07000	\$0.07000
14	Fuel Cost Recovery Factor	\$/kWh	\$0.02103	\$0.02423	\$0.02423	\$0.02423	\$0.02423
General Service Non-Demand							
Rate Schedule GS-2 (100% Load Factor)							
<u>Monthly Customer Charge</u>							
15	Non Metered Accounts	\$/Mo.	\$7.45	\$8.00	\$7.45	\$8.00	\$8.00
16	Metered Accounts	\$/Mo.	\$18.38	\$19.00	\$18.38	\$19.00	\$19.00
<u>Energy and Demand Charges All kWh's</u>							
17	Base	\$/kWh	\$0.03736	\$0.03640	\$0.03640	\$0.03640	\$0.03640
18	Fuel Cost Recovery Factor	\$/kWh	\$0.02103	\$0.02423	\$0.02423	\$0.02423	\$0.02423
General Service - Demand							
Schedule GSD-1							
<u>Monthly Customer Charges</u>							
	Metered Accounts						
19	Secondary Delivery Voltage	\$/Mo.	\$18.28	\$19.00	\$18.28	\$30.00	\$30.00
20	Primary Delivery Voltage	\$/Mo.	\$231.26	\$235.00	\$231.26	\$400.00	\$400.00
<u>Energy Charges All kWh's</u>							
21	Base	\$/kWh	\$0.04216	\$0.04216	\$0.04216	\$0.04216	\$0.04216
22	Fuel Cost Recovery Factor	\$/kWh	\$0.02103	\$0.02423	\$0.02423	\$0.02423	\$0.02423
23	Demand Charge	\$/kW	\$5.05	\$6.36	\$6.38	\$6.02	\$6.02

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Table No. 6-1
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Summary of Existing Rates and Rate Options

Ln. No.	Rate Description	Unit	Existing Rates Effective January 1, 2020	Option 1 Effective 2021	Option 2 Effective 2021	Option 3 Effective 2021	Option 4 Effective 2021
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	General Service - Demand						
	Optional Time of Use Rate						
	Schedule GSDT-1						
	<u>Monthly Customer Charges</u>						
	Metered Accounts						
24	Secondary Delivery Voltage	\$/Mo.	\$29.01	\$30.00	\$29.01	\$50.00	\$50.00
25	Primary Delivery Voltage	\$/Mo.	\$234.93	\$240.00	\$234.93	\$400.00	\$400.00
	<u>Energy Charges All kWh's</u>						
26	On - Peak	\$/kWh	\$0.07008	\$0.07008	\$0.07008	\$0.07008	\$0.07008
27	Off - Peak	\$/kWh	\$0.02843	\$0.02843	\$0.02843	\$0.02843	\$0.02843
	<u>Fuel Cost Recovery Factor</u>						
28	On - Peak	\$/kWh	\$0.02775	\$0.03197	\$0.03197	\$0.03197	\$0.03197
29	Off - Peak	\$/kWh	\$0.01882	\$0.02168	\$0.02168	\$0.02168	\$0.02168
30	Base Demand Charge	\$/kW	\$1.27	\$1.50	\$1.50	\$1.50	\$1.50
31	On-Peak Demand Charge	\$/kW	\$3.84	\$4.10	\$4.10	\$4.00	\$4.00
32	Demand Charge Credit	\$/kW	(0.35)	(0.35)	(0.35)	(0.35)	(0.35)

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Projected Revenues at

OPTION 1 RATES

Fiscal Year Ending September 30, 2021

Ln. No.	Customer Class Description	Option 1 Rate	Billing Determinants	Base Rate Revenue	Fuel Cost Recovery	Total Revenue
	(a)	(b)	(c)	(d)	(e)	(f)
Residential						
1	Customer Charge	\$18.00	141,625	\$ 2,549,253	\$ -	\$ 2,549,253
2	Energy Charge < 1,000 kWhs	\$ 0.06240	110,148,723	6,873,280	-	6,873,280
3	Energy Charge > 1,000 kWhs	\$ 0.08456	71,870,175	6,077,342	-	6,077,342
4	Fuel Cost Recovery Factor < 1,000 kWhs	\$ 0.02015	110,148,723	-	2,219,497	2,219,497
5	Fuel Cost Recovery Factor > 1,000 kWhs	\$ 0.03015	71,870,175	-	2,166,886	2,166,886
6	Total Residential			\$ 15,499,875	\$ 4,386,383	\$ 19,886,258
Commercial						
General Service Non-Demand						
7	Customer Charge	\$18.00	13,103	\$ 235,851	\$ -	\$ 235,851
8	Energy Charge	\$ 0.07200	10,869,182	782,581	-	782,581
9	Fuel Cost Recovery Factor	\$ 0.02423	10,869,182	-	263,360	263,360
10	<i>Subtotal GSND</i>			\$ 1,018,432	\$ 263,360	\$ 1,281,792
General Service Non-Demand (100 % LF)						
11	Customer Charge	\$19.00	465	\$ 8,837	\$ -	\$ 8,837
12	Energy Charge	\$ 0.03640	432,977	15,760	-	15,760
13	Fuel Cost Recovery Factor	\$ 0.02423	432,977	-	10,491	10,491
14	<i>Subtotal GSND (100% LF)</i>			\$ 24,598	\$ 10,491	\$ 35,089
General Service Demand						
15	Customer Charge - Secondary	\$19.00	12,175	\$ 231,316	\$ -	\$ 231,316
16	Customer Charge - Primary	\$235.00	12	2,733	-	2,733
17	Energy Charge	\$ 0.04216	131,546,246	5,545,990	-	5,545,990
18	Fuel Cost Recovery Factor	\$ 0.02423	131,546,246	-	3,187,366	3,187,366
19	Demand Charge	\$6.36	383,678	2,440,194	-	2,440,194
20	<i>Subtotal General Service Demand</i>			\$ 8,220,233	\$ 3,187,366	\$ 11,407,598
General Service Demand Time of Use						
21	Customer Charge - Secondary	\$30.00	228	\$ 6,831	\$ -	\$ 6,831
22	Customer Charge - Primary	\$240.00	17	4,186	-	4,186
23	Energy Charge - On-Peak	\$ 0.07008	14,338,386	1,004,834	-	1,004,834
24	Energy Charge - Off-Peak	\$ 0.02843	44,216,062	1,257,063	-	1,257,063
25	Fuel Cost Recovery - On-Peak	\$ 0.03197	14,338,386	-	458,435	458,435
26	Fuel Cost Recovery - Off-Peak	\$ 0.02168	44,216,062	-	958,769	958,769
27	Base Demand Charge	\$1.50	112,697	169,045	-	169,045
28	On-Peak Demand Charge	\$4.10	110,496	453,034	-	453,034
29	Primary Demand Charge Credit	\$ (0.35)	65,553	(22,944)	-	(22,944)
30	<i>Subtotal General Service Demand TOU</i>			\$ 2,872,050	\$ 1,417,203	\$ 4,289,253
31	Total Commercial			\$ 12,135,312	\$ 4,878,420	\$ 17,013,732

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study
Projected Revenues at
OPTION 1 RATES
Fiscal Year Ending September 30, 2021

Ln. No.	Customer Class Description (a)	Option 1 Rate (b)	Billing Determinants (c)	Base Rate Revenue (d)	Fuel Cost Recovery (e)	Total Revenue (f)
Public Authority						
General Service Non-Demand						
32	Customer Charge Secondary	\$ 18.00	2,135	\$ 38,425	\$ -	\$ 38,425
33	Energy Charge	\$ 0.07200	1,274,388	91,756	-	91,756
34	Fuel Cost Recovery Factor	\$ 0.02423	1,274,388	-	30,878	30,878
General Service Non-Demand (100 % LF)						
35	Customer Charge 100 % LF	\$ 19.00	267	5,081	-	5,081
36	Energy Charge 100 % LF	\$ 0.03640	100,287	3,650	-	3,650
37	Fuel Cost Recovery Factor	\$ 0.02423	100,287	-	2,430	2,430
General Service Demand						
38	Customer Charge - Secondary	\$ 19.00	699	13,274	-	13,274
39	Energy Charge	\$ 0.04216	12,709,993	535,853	-	535,853
40	Fuel Cost Recovery Factor	\$ 0.02423	12,709,993	-	307,963	307,963
41	Demand Charge	\$ 6.36	49,172	312,737	-	312,737
General Service Demand Time of Use						
42	Customer Charge Secondary	\$ 30.00	12	349	-	349
43	Customer Charge Primary	\$ 240.00	12	2,791	-	2,791
44	Energy Charge - On-Peak	\$ 0.07008	2,005,628	140,554	-	140,554
45	Energy Charge - Off-Peak	\$ 0.02843	5,409,847	153,802	-	153,802
46	Fuel Cost Recovery - On-Peak	\$ 0.03197	2,005,628	-	64,125	64,125
47	Fuel Cost Recovery - Off-Peak	\$ 0.02168	5,409,847	-	117,306	117,306
48	Base Demand Charge	\$ 1.50	22,149	33,223	-	33,223
49	On-Peak Demand Charge	\$ 4.10	22,009	90,238	-	90,238
50	Primary Demand Charge Credit	\$ (0.35)	41,233	(14,431)	-	(14,431)
51	Total Public Authority			<u>\$ 1,407,303</u>	<u>\$ 522,702</u>	<u>\$ 1,930,005</u>
Lighting						
52	Residential	\$ 0.02423	74,340	\$ 14,545	1,801	\$ 16,346
53	Commercial	\$ 0.02423	1,983,766	362,817	48,067	410,884
54	Total Lighting			<u>\$ 377,362</u>	<u>\$ 49,868</u>	<u>\$ 427,230</u>
55	TOTAL SYSTEM			<u>\$ 29,419,852</u>	<u>\$ 9,837,373</u>	<u>\$ 39,257,225</u>
56	Other Revenues					<u>4,846,416</u>
57	TOTAL SYSTEM REVENUE					<u>\$ 44,103,640</u>

CITY OF WINTER PARK, FLORIDA
Cost of Service Study
Analysis of Residential Fixed Cost per Customer [1]

	Cost of Service Table No. 5-1 [2] (a)	Excluding Undergrounding [3] (b)
1 Distribution Fixed Costs	\$10,175,861	\$7,502,289
2 Customer Fixed Costs	<u>\$1,431,091</u>	<u>\$1,471,760</u>
3 Total Fixed Costs	\$11,606,952	\$8,974,049
4 Residential Customers	12,180	12,180
5 \$/Customer/Year	\$953	\$737
6 \$/Customer/Month	<u>\$79</u>	<u>\$61</u>

[1] Based on Cost of Service allocated to the Residential Class.

[2] From Table No. 5-1, column (d) Residential.

[3] Cost of Service excluding Residential share of Undergrounding expense of \$4,425,000.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Inter-Utility Comparison of Monthly Customer Charges

Ln. No.	Utility	Customer Charges by Class		
		Residential	General Service	
			Non-Demand	Demand
1	City of Winter Park - Existing Charge	\$16.98	\$17.55	\$18.28
2	City of Winter Park - Option 1 Charge	18.00	18.00	19.00
3	City of Winter Park - Option 2 Charge	16.98	17.55	18.28
4	City of Winter Park - Option 3 Charge	30.00	30.00	30.00
5	City of Winter Park - Option 4 Charge	30.00	30.00	30.00
<u>Other Florida Municipalities:</u>				
6	Fort Pierce Utilities Authority	6.01	5.84	39.30
7	Gainesville Regional Utilities	15.00	31.00	100.00
8	Jacksonville Electric Authority	5.50	9.25	85.00
9	Kissimmee Utilities Authority	10.17	11.08	55.54
10	City of Lakeland	11.00	13.00	42.00
11	City of New Smyrna Beach	5.65	6.05	33.50
12	City of Ocala	15.00	17.00	45.00
13	Orlando Utilities Commission	12.50	14.75	38.00
14	City of Tallahassee	7.92	10.77	74.16
<u>Florida Cooperatives</u>				
15	Sumter Electric Cooperative	31.00	33.17	82.77
16	Clay Electric Cooperative	23.00	23.00	80.00
<u>Investor-Owned Utilities:</u>				
17	Florida Power and Light	8.34	10.62	26.50
18	Gulf Power Company	19.20	25.25	46.92
19	Duke Energy	10.58	14.00	14.00
20	Tampa Electric Company	15.95	18.06	30.10
21	Average Customer Charges	<u>\$13.36</u>	<u>\$16.27</u>	<u>\$50.69</u>

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Summary of Residential Rate Design Options Pros and Cons

RATE DESIGN OPTION	PROS	CONS
Option 1 \$18 Customer Charge; existing energy block differential of \$0.02216 per kWh	Helps recover fixed costs; closer to cost of service; consistent with industry trends; avoids rate shock	Greater percentage impact on low users
Option 2 \$16.98 Customer Charge; existing energy block differential of \$0.02216 per kWh	Rate decrease similar for all usage levels	Does not provide additional recovery of fixed costs
Option 3 \$30 Customer Charge; energy block differential of \$0.04 per kWh	Helps recover fixed costs; closer to cost of service; consistent with industry trends	Greater percentage impact on low users; large energy block rate differential
Option 4 \$30 Customer Charge; 4 Block energy charge; energy block differentials of \$0.02 and \$0.01 per kWh	Helps recover fixed costs; closer to cost of service	Greater percentage impact on low users;; multiple energy blocks not industry standard; major rate structure change

General

This section provides a summary of the billing effects of the proposed rates options 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 rate options compared with bills calculated under its existing rates, and (ii) monthly bills calculated under the City's existing and proposed rate options compared with those calculated under the rates of selected utilities for the billing month of June 2020.

Existing Rates and Rate Options

Table No. 7-1 provides a comparison of monthly bills calculated under the proposed rate options 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 rate options along with those of other electric utilities. As can be seen from these tables, the City's rates are comparable to other utilities.

In addition to the comparisons shown on Table No. 7-2, The Florida Municipal Electric Association prepares rate comparison schedules each month. The utilities designated as "G" on the comparisons are generating utilities, and the others are distribution only utilities. These schedules provide comparisons of both residential and commercial customers of varying usage levels. While generating utilities have different costs burdens, the distribution only utilities that purchase their power help the generating utilities recover those costs at wholesale rates. It is useful to include the generating utilities in the rate comparisons to make sure the City's rates are competitive.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Comparison of Existing and Proposed Residential Service Rates [1]

				Residential Service			
				Existing	Option 1		
Customer Charge		(\$)		\$16.98	\$18.00		
Energy Charge	First 1,000 kWh	(\$/kWh)		\$0.06624	\$0.06240		
Energy Charge	Additional kWh	(\$/kWh)		\$0.08840	\$0.08456		
Fuel Cost [2]	First 1,000 kWh	(\$/kWh)		\$0.02015	\$0.02015		
Fuel Cost [2]	Additional kWh	(\$/kWh)		\$0.03015	\$0.03015		

Usage (kWh)	Existing		Option 1		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
500	63.79	12.757	62.83	12.566	(0.95)	(0.191)	-1.50%
600	72.94	12.157	71.58	11.930	(1.36)	(0.227)	-1.87%
700	82.10	11.729	80.33	11.476	(1.77)	(0.253)	-2.15%
800	91.26	11.407	89.08	11.135	(2.18)	(0.272)	-2.38%
900	100.41	11.157	97.83	10.870	(2.58)	(0.287)	-2.57%
1,000	109.57	10.957	106.58	10.658	(2.99)	(0.299)	-2.73%
1,100	[3] 122.14	11.104	118.74	10.795	(3.40)	(0.309)	-2.78%
1,200	134.70	11.225	130.90	10.908	(3.80)	(0.317)	-2.82%
1,300	[4] 147.27	11.329	143.06	11.005	(4.21)	(0.324)	-2.86%
1,400	159.84	11.417	155.22	11.087	(4.62)	(0.330)	-2.89%
1,500	172.40	11.494	167.38	11.159	(5.02)	(0.335)	-2.91%
2,000	235.24	11.762	228.18	11.409	(7.06)	(0.353)	-3.00%
2,500	298.07	11.923	288.97	11.559	(9.09)	(0.364)	-3.05%
3,000	360.90	12.030	349.77	11.659	(11.13)	(0.371)	-3.08%
4,000	486.56	12.164	471.36	11.784	(15.20)	(0.380)	-3.12%
5,000	612.22	12.244	592.95	11.859	(19.27)	(0.385)	-3.15%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

[3] Median Residential monthly usage.

[4] Average Residential monthly usage.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

			General Service Non-Demand				
			Existing	Option 1			
Customer Charge		(\$)	\$17.55	\$18.00			
Energy Charge	All kWh	(\$/kWh)	\$0.07368	\$0.07200			
Fuel Cost Recovery [2]		(\$/kWh)	\$0.02423	\$0.02423			

Usage (kWh)	Existing		Option 1		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
1,000	122.39	12.239	121.08	12.108	(1.30)	(0.130)	-1.07%
1,250	148.33	11.867	146.58	11.727	(1.75)	(0.140)	-1.18%
1,500	174.28	11.619	172.09	11.472	(2.19)	(0.146)	-1.26%
1,750	200.23	11.441	197.59	11.291	(2.64)	(0.151)	-1.32%
1,900	215.79	11.358	212.89	11.205	(2.91)	(0.153)	-1.35%
2,000	226.17	11.309	223.09	11.154	(3.08)	(0.154)	-1.36%
3,000	329.96	10.999	325.09	10.836	(4.87)	(0.162)	-1.47%
4,000	433.74	10.844	427.10	10.677	(6.65)	(0.166)	-1.53%
5,000	537.53	10.751	529.10	10.582	(8.43)	(0.169)	-1.57%
7,500	796.99	10.627	784.11	10.455	(12.88)	(0.172)	-1.62%
10,000	1,056.45	10.564	1,039.12	10.391	(17.33)	(0.173)	-1.64%
11,000	1,160.23	10.548	1,141.12	10.374	(19.11)	(0.174)	-1.65%
12,000	1,264.02	10.533	1,243.13	10.359	(20.89)	(0.174)	-1.65%
13,000	1,367.80	10.522	1,345.13	10.347	(22.67)	(0.174)	-1.66%
14,000	1,471.59	10.511	1,447.13	10.337	(24.45)	(0.175)	-1.66%
15,000	1,575.37	10.502	1,549.14	10.328	(26.23)	(0.175)	-1.67%
17,250	1,808.89	10.486	1,778.65	10.311	(30.24)	(0.175)	-1.67%
20,000	2,094.30	10.471	2,059.16	10.296	(35.14)	(0.176)	-1.68%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

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

					General Service Demand					
					Existing	Option 1				
Customer Charge					(\$)	\$18.28	\$19.00			
Demand Charge					(\$/kW)	\$5.05	\$6.36			
Energy Charge All kWh					(\$/kWh)	\$0.04216	\$0.04216			
Fuel Cost Recovery [2]					(\$/kWh)	\$0.02423	\$0.02423			
Demand	Hours	Usage	Existing		Option 1		Difference			
			Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Percent	
(kW)		(kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(\$)	(Cents/kWh)	(%)	
50	200	10,000	990.76	9.908	1,060.95	10.610	70.19	0.702	7.08%	
	300	15,000	1,342.63	8.951	1,412.82	9.419	70.19	0.468	5.23%	
	400	20,000	1,694.49	8.472	1,764.69	8.823	70.19	0.351	4.14%	
	500	25,000	2,046.36	8.185	2,116.56	8.466	70.19	0.281	3.43%	
	600	30,000	2,398.23	7.994	2,468.42	8.228	70.19	0.234	2.93%	
100	200	20,000	1,962.14	9.811	2,101.77	10.509	139.62	0.698	7.12%	
	300	30,000	2,665.88	8.886	2,805.50	9.352	139.62	0.465	5.24%	
	400	40,000	3,369.61	8.424	3,509.24	8.773	139.62	0.349	4.14%	
	500	50,000	4,073.35	8.147	4,212.97	8.426	139.62	0.279	3.43%	
	600	60,000	4,777.08	7.962	4,916.70	8.195	139.62	0.233	2.92%	
500	200	100,000	9,733.22	9.733	10,428.28	10.428	695.06	0.695	7.14%	
	300	150,000	13,251.89	8.835	13,946.95	9.298	695.06	0.463	5.25%	
	400	200,000	16,770.56	8.385	17,465.62	8.733	695.06	0.348	4.14%	
	500	250,000	20,289.23	8.116	20,984.29	8.394	695.06	0.278	3.43%	
	600	300,000	23,807.90	7.936	24,502.96	8.168	695.06	0.232	2.92%	

[1] Amounts shown reflect inside the City service, 6% franchise fee, and exclude any applicable primary service discount or power factor correction.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Comparison of Existing and Proposed Residential Service Rates [1]

				Residential Service			
				Existing	Option 2		
Customer Charge		(\$)		\$16.98	\$16.98		
Energy Charge	First 1,000 kWh	(\$/kWh)		\$0.06624	\$0.06319		
Energy Charge	Additional kWh	(\$/kWh)		\$0.08840	\$0.08535		
Fuel Cost [2]	First 1,000 kWh	(\$/kWh)		\$0.02015	\$0.02015		
Fuel Cost [2]	Additional kWh	(\$/kWh)		\$0.03015	\$0.03015		

Usage (kWh)	Existing		Option 2		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
500	63.79	12.757	62.17	12.434	(1.62)	(0.323)	-2.53%
600	72.94	12.157	71.00	11.834	(1.94)	(0.323)	-2.66%
700	82.10	11.729	79.84	11.405	(2.26)	(0.323)	-2.76%
800	91.26	11.407	88.67	11.084	(2.59)	(0.323)	-2.83%
900	100.41	11.157	97.51	10.834	(2.91)	(0.323)	-2.90%
1,000	109.57	10.957	106.34	10.634	(3.23)	(0.323)	-2.95%
1,100	[3] 122.14	11.104	118.58	10.780	(3.56)	(0.323)	-2.91%
1,200	134.70	11.225	130.83	10.902	(3.88)	(0.323)	-2.88%
1,300	[4] 147.27	11.329	143.07	11.005	(4.20)	(0.323)	-2.85%
1,400	159.84	11.417	155.31	11.094	(4.53)	(0.323)	-2.83%
1,500	172.40	11.494	167.55	11.170	(4.85)	(0.323)	-2.81%
2,000	235.24	11.762	228.77	11.438	(6.47)	(0.323)	-2.75%
2,500	298.07	11.923	289.98	11.599	(8.08)	(0.323)	-2.71%
3,000	360.90	12.030	351.20	11.707	(9.70)	(0.323)	-2.69%
4,000	486.56	12.164	473.63	11.841	(12.93)	(0.323)	-2.66%
5,000	612.22	12.244	596.06	11.921	(16.17)	(0.323)	-2.64%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

[3] Median Residential monthly usage.

[4] Average Residential monthly usage.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

General Service Non-Demand							
				Existing	Option 2		
Customer Charge (\$)				\$17.55	\$17.55		
Energy Charge All kWh (\$/kWh)				\$0.07368	\$0.07254		
Fuel Cost Recovery [2] (\$/kWh)				\$0.02423	\$0.02423		

Usage (kWh)	Existing		Option 2		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
1,000	122.39	12.239	121.18	12.118	(1.21)	(0.121)	-0.99%
1,250	148.33	11.867	146.82	11.746	(1.51)	(0.121)	-1.02%
1,500	174.28	11.619	172.47	11.498	(1.81)	(0.121)	-1.04%
1,750	200.23	11.441	198.11	11.321	(2.11)	(0.121)	-1.06%
1,900	215.79	11.358	213.50	11.237	(2.30)	(0.121)	-1.06%
2,000	226.17	11.309	223.76	11.188	(2.42)	(0.121)	-1.07%
3,000	329.96	10.999	326.33	10.878	(3.63)	(0.121)	-1.10%
4,000	433.74	10.844	428.91	10.723	(4.83)	(0.121)	-1.11%
5,000	537.53	10.751	531.48	10.630	(6.04)	(0.121)	-1.12%
7,500	796.99	10.627	787.92	10.506	(9.06)	(0.121)	-1.14%
10,000	1,056.45	10.564	1,044.37	10.444	(12.08)	(0.121)	-1.14%
11,000	1,160.23	10.548	1,146.94	10.427	(13.29)	(0.121)	-1.15%
12,000	1,264.02	10.533	1,249.52	10.413	(14.50)	(0.121)	-1.15%
13,000	1,367.80	10.522	1,352.09	10.401	(15.71)	(0.121)	-1.15%
14,000	1,471.59	10.511	1,454.67	10.390	(16.92)	(0.121)	-1.15%
15,000	1,575.37	10.502	1,557.25	10.382	(18.13)	(0.121)	-1.15%
17,250	1,808.89	10.486	1,788.04	10.365	(20.84)	(0.121)	-1.15%
20,000	2,094.30	10.471	2,070.13	10.351	(24.17)	(0.121)	-1.15%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

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

					General Service Demand					
					Existing	Option 2				
Customer Charge					(\$)	\$18.28	\$18.28			
Demand Charge					(\$/kW)	\$5.05	\$6.38			
Energy Charge All kWh					(\$/kWh)	\$0.04216	\$0.04216			
Fuel Cost Recovery [2]					(\$/kWh)	\$0.02423	\$0.02423			
Demand (kW)	Hours	Usage (kWh)	Existing		Option 2		Difference			
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)	
50	200	10,000	990.76	9.908	1,061.25	10.613	70.49	0.705	7.11%	
	300	15,000	1,342.63	8.951	1,413.12	9.421	70.49	0.470	5.25%	
	400	20,000	1,694.49	8.472	1,764.98	8.825	70.49	0.352	4.16%	
	500	25,000	2,046.36	8.185	2,116.85	8.467	70.49	0.282	3.44%	
	600	30,000	2,398.23	7.994	2,468.72	8.229	70.49	0.235	2.94%	
100	200	20,000	1,962.14	9.811	2,103.12	10.516	140.98	0.705	7.18%	
	300	30,000	2,665.88	8.886	2,806.86	9.356	140.98	0.470	5.29%	
	400	40,000	3,369.61	8.424	3,510.59	8.776	140.98	0.352	4.18%	
	500	50,000	4,073.35	8.147	4,214.33	8.429	140.98	0.282	3.46%	
	600	60,000	4,777.08	7.962	4,918.06	8.197	140.98	0.235	2.95%	
500	200	100,000	9,733.22	9.733	10,438.12	10.438	704.90	0.705	7.24%	
	300	150,000	13,251.89	8.835	13,956.79	9.305	704.90	0.470	5.32%	
	400	200,000	16,770.56	8.385	17,475.46	8.738	704.90	0.352	4.20%	
	500	250,000	20,289.23	8.116	20,994.13	8.398	704.90	0.282	3.47%	
	600	300,000	23,807.90	7.936	24,512.80	8.171	704.90	0.235	2.96%	

[1] Amounts shown reflect inside the City service, 6% franchise fee, and exclude any applicable primary service discount or power factor correction.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Comparison of Existing and Proposed Residential Service Rates [1]

				Residential Service			
				Existing	Option 3		
Customer Charge		(\$)		\$16.98	\$30.00		
Energy Charge	First 1,000 kWh	(\$/kWh)		\$0.06624	\$0.04602		
Energy Charge	Additional kWh	(\$/kWh)		\$0.08840	\$0.08602		
Fuel Cost [2]	First 1,000 kWh	(\$/kWh)		\$0.02015	\$0.02015		
Fuel Cost [2]	Additional kWh	(\$/kWh)		\$0.03015	\$0.03015		

Usage (kWh)	Existing		Option 3		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
500	63.79	12.757	66.87	13.374	3.08	0.617	4.84%
600	72.94	12.157	73.88	12.314	0.94	0.157	1.29%
700	82.10	11.729	80.90	11.557	(1.20)	(0.172)	-1.46%
800	91.26	11.407	87.91	10.989	(3.35)	(0.418)	-3.67%
900	100.41	11.157	94.93	10.547	(5.49)	(0.610)	-5.47%
1,000	109.57	10.957	101.94	10.194	(7.63)	(0.763)	-6.97%
1,100	[3] 122.14	11.104	114.25	10.387	(7.88)	(0.717)	-6.46%
1,200	134.70	11.225	126.57	10.547	(8.14)	(0.678)	-6.04%
1,300	[4] 147.27	11.329	138.88	10.683	(8.39)	(0.645)	-5.70%
1,400	159.84	11.417	151.20	10.800	(8.64)	(0.617)	-5.41%
1,500	172.40	11.494	163.51	10.901	(8.89)	(0.593)	-5.16%
2,000	235.24	11.762	225.08	11.254	(10.15)	(0.508)	-4.32%
2,500	298.07	11.923	286.65	11.466	(11.42)	(0.457)	-3.83%
3,000	360.90	12.030	348.22	11.607	(12.68)	(0.423)	-3.51%
4,000	486.56	12.164	471.36	11.784	(15.20)	(0.380)	-3.12%
5,000	612.22	12.244	594.50	11.890	(17.72)	(0.354)	-2.89%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

[3] Median Residential monthly usage.

[4] Average Residential monthly usage.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

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

				General Service Non-Demand			
				Existing	Option 3		
Customer Charge		(\$)		\$17.55	\$30.00		
Energy Charge	All kWh	(\$/kWh)		\$0.07368	\$0.07000		
Fuel Cost Recovery [2]		(\$/kWh)		\$0.02423	\$0.02423		

Usage (kWh)	Existing		Option 3		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
1,000	122.39	12.239	131.68	13.168	9.30	0.930	7.60%
1,250	148.33	11.867	156.65	12.532	8.32	0.666	5.61%
1,500	174.28	11.619	181.63	12.108	7.35	0.490	4.21%
1,750	200.23	11.441	206.60	11.806	6.37	0.364	3.18%
1,900	215.79	11.358	221.58	11.662	5.79	0.304	2.68%
2,000	226.17	11.309	231.57	11.578	5.40	0.270	2.39%
3,000	329.96	10.999	331.45	11.048	1.49	0.050	0.45%
4,000	433.74	10.844	431.34	10.783	(2.41)	(0.060)	-0.55%
5,000	537.53	10.751	531.22	10.624	(6.31)	(0.126)	-1.17%
7,500	796.99	10.627	780.93	10.412	(16.06)	(0.214)	-2.01%
10,000	1,056.45	10.564	1,030.64	10.306	(25.81)	(0.258)	-2.44%
11,000	1,160.23	10.548	1,130.52	10.277	(29.71)	(0.270)	-2.56%
12,000	1,264.02	10.533	1,230.41	10.253	(33.61)	(0.280)	-2.66%
13,000	1,367.80	10.522	1,330.29	10.233	(37.51)	(0.289)	-2.74%
14,000	1,471.59	10.511	1,430.17	10.216	(41.41)	(0.296)	-2.81%
15,000	1,575.37	10.502	1,530.06	10.200	(45.31)	(0.302)	-2.88%
17,250	1,808.89	10.486	1,754.80	10.173	(54.09)	(0.314)	-2.99%
20,000	2,094.30	10.471	2,029.48	10.147	(64.82)	(0.324)	-3.10%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

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

							General Service Demand		
							Existing	Option 3	
		Customer Charge		(\$)			\$18.28	\$30.00	
		Demand Charge		(\$/kW)			\$5.05	\$6.02	
		Energy Charge	All kWh	(\$/kWh)			\$0.04216	\$0.04216	
		Fuel Cost Recovery [2]		(\$/kWh)			\$0.02423	\$0.02423	
Demand (kW)	Hours	Usage (kWh)	Existing		Option 3		Difference		
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
50	200	10,000	990.76	9.908	1,054.59	10.546	63.83	0.638	6.44%
	300	15,000	1,342.63	8.951	1,406.46	9.376	63.83	0.426	4.75%
	400	20,000	1,694.49	8.472	1,758.33	8.792	63.83	0.319	3.77%
	500	25,000	2,046.36	8.185	2,110.20	8.441	63.83	0.255	3.12%
	600	30,000	2,398.23	7.994	2,462.06	8.207	63.83	0.213	2.66%
100	200	20,000	1,962.14	9.811	2,077.39	10.387	115.24	0.576	5.87%
	300	30,000	2,665.88	8.886	2,781.12	9.270	115.24	0.384	4.32%
	400	40,000	3,369.61	8.424	3,484.86	8.712	115.24	0.288	3.42%
	500	50,000	4,073.35	8.147	4,188.59	8.377	115.24	0.230	2.83%
	600	60,000	4,777.08	7.962	4,892.32	8.154	115.24	0.192	2.41%
500	200	100,000	9,733.22	9.733	10,259.74	10.260	526.52	0.527	5.41%
	300	150,000	13,251.89	8.835	13,778.41	9.186	526.52	0.351	3.97%
	400	200,000	16,770.56	8.385	17,297.08	8.649	526.52	0.263	3.14%
	500	250,000	20,289.23	8.116	20,815.75	8.326	526.52	0.211	2.60%
	600	300,000	23,807.90	7.936	24,334.42	8.111	526.52	0.176	2.21%

[1] Amounts shown reflect inside the City service, 6% franchise fee, and exclude any applicable primary service discount or power factor correction.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Comparison of Existing and Proposed Residential Service Rates [1]

			Residential Service				
			Existing	Option 4			
Customer Charge							
Energy Charge	First 500 kWh	(\$/kWh)	\$0.06624	\$0.03861			
Energy Charge	Next 500 kWh	(\$/kWh)	\$0.06624	\$0.05861			
Energy Charge	Next 500 kWh	(\$/kWh)	\$0.08840	\$0.07861			
Energy Charge	Additional kWh	(\$/kWh)	\$0.08840	\$0.08861			
Fuel Cost [2]	First 1,000 kWh	(\$/kWh)	\$0.02015	\$0.02015			
Fuel Cost [2]	Additional kWh	(\$/kWh)	\$0.03015	\$0.03015			

Usage (kWh)	Existing		Option 4		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
500	63.79	12.757	62.95	12.589	(0.84)	(0.168)	-1.32%
600	72.94	12.157	71.29	11.882	(1.65)	(0.275)	-2.26%
700	82.10	11.729	79.64	11.378	(2.46)	(0.351)	-2.99%
800	91.26	11.407	87.99	10.999	(3.26)	(0.408)	-3.58%
900	100.41	11.157	96.34	10.705	(4.07)	(0.453)	-4.06%
1,000	109.57	10.957	104.69	10.469	(4.88)	(0.488)	-4.45%
1,100	122.14	11.104	116.22	10.565	(5.92)	(0.538)	-4.85%
1,200	134.70	11.225	127.75	10.646	(6.96)	(0.580)	-5.16%
1,300	147.27	11.329	139.28	10.714	(7.99)	(0.615)	-5.43%
1,400	159.84	11.417	150.81	10.772	(9.03)	(0.645)	-5.65%
1,500	172.40	11.494	162.34	10.822	(10.07)	(0.671)	-5.84%
2,000	235.24	11.762	225.28	11.264	(9.95)	(0.498)	-4.23%
2,500	298.07	11.923	288.23	11.529	(9.84)	(0.394)	-3.30%
3,000	360.90	12.030	351.17	11.706	(9.73)	(0.324)	-2.69%
4,000	486.56	12.164	477.06	11.927	(9.50)	(0.237)	-1.95%
5,000	612.22	12.244	602.95	12.059	(9.27)	(0.185)	-1.51%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

				General Service Non-Demand			
				Existing	Option 4		
Customer Charge		(\$)		\$17.55	\$30.00		
Energy Charge	All kWh	(\$/kWh)		\$0.07368	\$0.07000		
Fuel Cost Recovery [2]		(\$/kWh)		\$0.02423	\$0.02423		

Usage (kWh)	Existing		Option 4		Difference		
	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
1,000	122.39	12.239	131.68	13.168	9.30	0.930	7.60%
1,250	148.33	11.867	156.65	12.532	8.32	0.666	5.61%
1,500	174.28	11.619	181.63	12.108	7.35	0.490	4.21%
1,750	200.23	11.441	206.60	11.806	6.37	0.364	3.18%
1,900	215.79	11.358	221.58	11.662	5.79	0.304	2.68%
2,000	226.17	11.309	231.57	11.578	5.40	0.270	2.39%
3,000	329.96	10.999	331.45	11.048	1.49	0.050	0.45%
4,000	433.74	10.844	431.34	10.783	(2.41)	(0.060)	-0.55%
5,000	537.53	10.751	531.22	10.624	(6.31)	(0.126)	-1.17%
7,500	796.99	10.627	780.93	10.412	(16.06)	(0.214)	-2.01%
10,000	1,056.45	10.564	1,030.64	10.306	(25.81)	(0.258)	-2.44%
11,000	1,160.23	10.548	1,130.52	10.277	(29.71)	(0.270)	-2.56%
12,000	1,264.02	10.533	1,230.41	10.253	(33.61)	(0.280)	-2.66%
13,000	1,367.80	10.522	1,330.29	10.233	(37.51)	(0.289)	-2.74%
14,000	1,471.59	10.511	1,430.17	10.216	(41.41)	(0.296)	-2.81%
15,000	1,575.37	10.502	1,530.06	10.200	(45.31)	(0.302)	-2.88%
17,250	1,808.89	10.486	1,754.80	10.173	(54.09)	(0.314)	-2.99%
20,000	2,094.30	10.471	2,029.48	10.147	(64.82)	(0.324)	-3.10%

[1] Amounts shown reflect single phase, inside the City service, and include a 6% franchise fee.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

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

							General Service Demand		
							Existing	Option 4	
		Customer Charge		(\$)			\$18.28	\$30.00	
		Demand Charge		(\$/kW)			\$5.05	\$6.02	
		Energy Charge	All kWh	(\$/kWh)			\$0.04216	\$0.04216	
		Fuel Cost Recovery [2]		(\$/kWh)			\$0.02423	\$0.02423	
Demand (kW)	Hours	Usage (kWh)	Existing		Option 4		Difference		
			Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Amount (\$)	Unit Cost (Cents/kWh)	Percent (%)
50	200	10,000	990.76	9.908	1,054.59	10.546	63.83	0.638	6.44%
	300	15,000	1,342.63	8.951	1,406.46	9.376	63.83	0.426	4.75%
	400	20,000	1,694.49	8.472	1,758.33	8.792	63.83	0.319	3.77%
	500	25,000	2,046.36	8.185	2,110.20	8.441	63.83	0.255	3.12%
	600	30,000	2,398.23	7.994	2,462.06	8.207	63.83	0.213	2.66%
100	200	20,000	1,962.14	9.811	2,077.39	10.387	115.24	0.576	5.87%
	300	30,000	2,665.88	8.886	2,781.12	9.270	115.24	0.384	4.32%
	400	40,000	3,369.61	8.424	3,484.86	8.712	115.24	0.288	3.42%
	500	50,000	4,073.35	8.147	4,188.59	8.377	115.24	0.230	2.83%
	600	60,000	4,777.08	7.962	4,892.32	8.154	115.24	0.192	2.41%
500	200	100,000	9,733.22	9.733	10,259.74	10.260	526.52	0.527	5.41%
	300	150,000	13,251.89	8.835	13,778.41	9.186	526.52	0.351	3.97%
	400	200,000	16,770.56	8.385	17,297.08	8.649	526.52	0.263	3.14%
	500	250,000	20,289.23	8.116	20,815.75	8.326	526.52	0.211	2.60%
	600	300,000	23,807.90	7.936	24,334.42	8.111	526.52	0.176	2.21%

[1] Amounts shown reflect inside the City service, 6% franchise fee, and exclude any applicable primary service discount or power factor correction.

[2] Projected Fuel Cost Recovery Factor for Fiscal Year 2021.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

Ln. No.	Utility	Fuel Adj. \$/1000 kWh	Residential Class							
			250 kWh	500 kWh	750 kWh	1,000 kWh	1,200 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Winter Park - Existing	17.08	40.08	62.16	84.24	106.32	130.80	228.73	289.93	351.14
2	City of Winter Park - Option 1	20.15	40.96	62.83	84.71	106.58	130.90	228.18	288.97	349.77
3	City of Winter Park - Option 2	20.15	40.08	62.17	84.25	106.34	130.83	228.77	289.98	351.20
4	City of Winter Park - Option 3	20.15	49.34	66.87	84.41	101.94	126.57	225.08	286.65	348.22
5	City of Winter Park - Option 4	20.15	47.37	62.95	83.82	104.69	127.75	225.28	288.23	351.17
<u>Other Florida Municipalities:</u>										
6	City of Alachua	0.00	32.49	55.84	79.19	102.54	123.26	206.14	257.94	309.74
7	City of Bushnell	10.00	35.16	60.33	85.49	110.65	130.78	211.30	261.63	311.95
8	Fort Pierce Utilities Authority	(13.00)	29.82	53.62	77.43	103.84	124.96	209.48	262.30	315.12
9	Gainesville Regional Utilities	30.00	41.13	67.25	93.38	123.13	148.87	251.83	316.18	380.53
10	Jacksonville Electric Authority	32.50	31.25	57.00	82.75	108.50	129.10	211.50	263.00	317.00
11	Kissimmee Utilities Authority	(51.19)	28.15	46.13	64.10	82.08	98.99	166.64	208.92	251.20
12	City of Lakeland	20.00	29.44	47.88	66.32	84.77	100.96	168.78	212.32	255.85
13	City of Leesburg	0.00	34.88	57.57	80.25	102.94	125.45	215.48	271.76	328.03
14	City of New Smyrna Beach	0.00	24.76	43.88	62.99	82.10	97.39	158.55	196.78	235.00
15	City of Newberry	5.00	35.00	61.50	88.00	114.50	142.00	226.00	278.50	331.00
16	City of Ocala	0.00	36.88	58.76	80.63	102.51	120.01	190.02	233.78	277.53
17	Orlando Utilities Commission	32.02	36.75	61.00	85.25	109.50	132.90	226.50	285.00	343.50
18	City of Tallahassee	29.39	33.59	59.26	84.92	110.59	131.12	213.26	264.60	315.93
<u>Florida Cooperatives</u>										
19	Sumter Electric Cooperative	(20.70)	53.48	75.95	98.43	120.90	142.88	230.80	285.75	340.70
20	Central Florida Cooperative	(5.50)	52.58	75.70	98.83	121.95	140.45	214.45	260.70	306.95
21	Clay Electric Cooperative	17.40	45.48	67.95	90.43	112.90	134.64	221.60	275.95	330.30
<u>Investor-Owned Utilities:</u> ^[2]										
22	Florida Power and Light	18.84	31.55	54.25	76.96	99.66	110.88	155.76	183.80	211.85
23	Gulf Power Company	32.62	51.55	82.74	113.94	145.14	170.09	269.92	332.31	394.70
24	Duke Energy	30.67	41.93	72.65	103.37	134.09	164.35	285.38	361.03	436.68
25	Tampa Electric Company	4.45	32.33	48.71	65.08	81.46	97.02	159.27	198.17	237.07

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include June 2020 fuel adjustments and franchise fees.

[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.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

Ln. No.	Utility	Fuel Adj. \$/1000 kWh	General Service Non-Demand Class							
			250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh	2,000 kWh	2,500 kWh	3,000 kWh
1	City of Winter Park - Existing	21.03	43.70	68.80	93.90	119.00	169.19	219.39	269.58	319.78
2	City of Winter Park - Option 1	24.23	44.58	70.08	95.58	121.08	172.09	223.09	274.09	325.09
3	City of Winter Park - Option 2	24.23	44.25	69.89	95.54	121.18	172.47	223.76	275.04	326.33
4	City of Winter Park - Option 3	24.23	56.77	81.74	106.71	131.68	181.63	231.57	281.51	331.45
5	City of Winter Park - Option 4	24.23	56.77	81.74	106.71	131.68	181.63	231.57	281.51	331.45
<u>Other Florida Municipalities:</u>										
6	City of Alachua	0.00	36.31	60.93	85.56	110.18	159.43	208.68	257.93	307.18
7	City of Bushnell	10.00	38.47	66.93	95.40	123.86	180.79	237.72	294.65	351.58
8	Fort Pierce Utilities Authority	(13.00)	32.36	58.87	85.39	111.90	164.93	217.96	270.99	324.02
9	Gainesville Regional Utilities	30.00	63.10	95.20	127.30	159.40	223.60	304.05	384.50	464.95
10	Jacksonville Electric Authority	32.50	33.65	58.05	82.44	106.84	155.64	204.43	253.23	302.02
11	Kissimmee	(54.97)	30.91	50.74	70.57	90.40	130.06	169.71	209.37	249.03
12	City of Lakeland	20.00	31.23	49.46	67.69	85.93	122.39	158.85	195.32	231.78
13	City of New Smyrna Beach	0.00	24.68	43.30	61.93	80.55	117.80	155.05	192.30	229.55
14	City of Ocala	0.00	39.21	61.42	83.63	105.84	150.26	194.68	239.10	283.52
15	Orlando Utilities Commission	19.52	37.17	59.59	82.01	104.43	149.27	194.11	238.95	283.79
16	City of Tallahassee	29.39	32.61	54.45	76.29	98.13	141.81	185.49	229.17	272.85
<u>Florida Cooperatives</u>										
17	Sumter Electric Cooperative	(20.70)	56.80	80.42	104.05	127.67	174.92	222.17	269.42	316.67
18	Clay Electric Cooperative	17.40	47.68	72.35	97.03	121.70	171.05	220.40	269.75	319.10
<u>Investor-Owned Utilities: ^[2]</u>										
19	Florida Power and Light	(0.39)	28.45	45.64	62.84	80.03	114.42	148.80	183.19	217.58
20	Gulf Power Company	32.62	58.93	91.09	123.25	155.41	219.73	284.05	348.37	412.69
21	Duke Energy	7.33	40.33	65.83	91.32	116.81	167.80	218.78	269.77	320.76
22	Tampa Electric Company	30.16	43.01	66.88	90.75	114.62	162.35	210.09	257.83	305.57

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include June 2020 fuel adjustments and franchise fees.

[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.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

Ln. No.	Utility	General Service Demand Class								
		50 kW			75 kW			150 kW		
		10,000 kWh	20,000 kWh	30,000 kWh	15,000 kWh	30,000 kWh	45,000 kWh	30,000 kWh	60,000 kWh	90,000 kWh
1	City of Winter Park - Existing	957	1,627	2,296	1,426	2,430	3,435	2,832	4,841	6,851
2	City of Winter Park - Option 1	1,061	1,765	2,468	1,581	2,637	3,693	3,143	5,254	7,365
3	City of Winter Park - Option 2	1,061	1,765	2,469	1,582	2,638	3,693	3,145	5,256	7,367
4	City of Winter Park - Option 3	1,055	1,758	2,462	1,566	2,622	3,677	3,100	5,211	7,323
5	City of Winter Park - Option 4	1,055	1,758	2,462	1,566	2,622	3,677	3,100	5,211	7,323
<u>Other Florida Municipalities:</u>										
6	Fort Pierce Utilities Authority	1,122	1,867	2,612	1,664	2,781	3,898	3,289	5,522	7,756
7	Gainesville Regional Utilities	1,561	2,514	3,467	2,291	3,720	5,150	4,482	7,341	10,200
8	Jacksonville Electric Authority	1,172	1,838	2,505	1,715	2,715	3,715	3,345	5,345	7,345
9	Kissimmee	1,003	1,505	2,008	1,476	2,230	2,984	2,897	4,405	5,912
10	City of Lakeland	883	1,304	1,726	1,303	1,935	2,568	2,564	3,828	5,093
11	City of New Smyrna Beach	1,021	1,671	2,321	1,515	2,490	3,465	2,996	4,946	6,896
12	City of Ocala	971	1,553	2,134	1,434	2,306	3,178	2,892	4,603	6,313
13	Orlando Utilities Commission	1,114	1,690	2,265	1,652	2,515	3,379	3,265	4,993	6,720
14	City of Tallahassee	1,288	1,816	2,244	1,895	2,687	3,329	3,716	5,300	6,583
<u>Florida Cooperatives</u>										
15	Sumter Electric Cooperative	1,078	1,776	2,474	1,576	2,623	3,670	3,069	5,163	7,257
<u>Investor-Owned Utilities:</u> ^[2]										
16	Florida Power and Light	1,107	1,592	2,077	1,646	2,374	3,102	3,264	4,720	6,175
17	Gulf Power Company	1,252	2,081	2,909	1,853	3,096	4,339	3,656	6,142	8,628
18	Duke Energy	1,310	2,026	2,741	1,957	3,031	4,104	3,900	6,047	8,194
19	Tampa Electric Company	980	1,301	1,622	1,454	1,936	2,418	2,876	3,840	4,803

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include June 2020 fuel adjustments and franchise fees.

[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.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

Ln. No.	Utility	General Service Demand Class								
		200 kW			300 kW			400 kW		
		40,000 kWh	80,000 kWh	120,000 kWh	60,000 kWh	120,000 kWh	180,000 kWh	80,000 kWh	160,000 kWh	240,000 kWh
1	City of Winter Park - Existing	3,769	6,448	9,128	5,644	9,663	13,682	7,519	12,878	18,236
2	City of Winter Park - Option 1	4,183	6,998	9,813	6,265	10,487	14,710	8,347	13,977	19,606
3	City of Winter Park - Option 2	4,187	7,002	9,817	6,271	10,493	14,715	8,354	13,984	19,614
4	City of Winter Park - Option 3	4,123	6,938	9,753	6,169	10,391	14,613	8,214	13,844	19,474
5	City of Winter Park - Option 4	4,123	6,938	9,753	6,169	10,391	14,613	8,214	13,844	19,474
<u>Other Florida Municipalities:</u>										
6	Fort Pierce Utilities Authority	4,372	7,350	10,329	6,538	11,006	15,473	8,704	14,661	20,618
7	Gainesville Regional Utilities	5,942	9,754	13,566	8,863	14,581	20,299	11,784	19,408	27,032
8	Jacksonville Electric Authority	4,432	7,099	9,765	6,605	10,605	14,606	8,779	14,112	19,446
9	Kissimmee	3,844	5,854	7,865	5,738	8,754	11,769	7,632	11,653	15,674
10	City of Lakeland	3,404	5,091	6,777	5,085	7,615	10,144	6,767	10,139	13,512
11	City of New Smyrna Beach	3,984	6,584	9,184	5,584	9,184	12,784	7,434	12,234	17,034
12	City of Ocala	3,841	6,122	8,402	5,740	9,160	12,581	7,455	12,106	16,756
13	Orlando Utilities Commission	4,341	6,644	8,948	6,493	9,948	13,402	8,644	13,251	17,857
14	City of Tallahassee	4,930	7,042	8,753	7,358	10,526	13,092	9,786	14,010	17,431
<u>Florida Cooperatives</u>										
15	Sumter Electric Cooperative	4,065	6,857	9,649	6,056	10,244	14,432	8,047	13,631	19,215
<u>Investor-Owned Utilities:</u> ^[2]										
16	Florida Power and Light	4,343	6,284	8,224	6,501	9,412	12,323	8,658	12,539	16,421
17	Gulf Power Company	4,859	8,173	11,488	7,263	12,235	17,206	9,668	16,297	22,925
18	Duke Energy	5,195	8,058	10,921	7,785	12,079	16,373	10,375	16,101	21,826
19	Tampa Electric Company	3,825	5,109	6,394	5,721	7,648	9,575	7,617	10,187	12,756

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include June 2020 fuel adjustments and franchise fees.

[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.

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

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

Ln. No.	Utility	General Service Large Demand Class								
		500 kW			1,000 kW			1,500 kW		
		100,000 kWh	200,000 kWh	300,000 kWh	200,000 kWh	400,000 kWh	600,000 kWh	300,000 kWh	600,000 kWh	900,000 kWh
1	City of Winter Park - Existing	9,372	16,048	22,723	18,724	32,076	45,427	28,076	48,104	68,132
2	City of Winter Park - Option 1	10,428	17,466	24,503	20,836	34,911	48,986	31,245	52,357	73,469
3	City of Winter Park - Option 2	10,438	17,475	24,513	20,857	34,932	49,006	31,276	52,388	73,500
4	City of Winter Park - Option 3	10,260	17,297	24,334	20,488	34,562	48,637	30,716	51,828	72,940
5	City of Winter Park - Option 4	10,260	17,297	24,334	20,488	34,562	48,637	30,716	51,828	72,940
<u>Other Florida Municipalities:</u>										
6	Fort Pierce Utilities Authority	10,870	18,316	25,762	26,475	39,781	53,087	39,693	59,652	79,611
7	Gainesville Regional Utilities	14,705	24,235	33,765	29,310	48,370	67,430	43,130	70,460	97,790
8	Jacksonville Electric Authority	10,952	17,619	24,286	21,819	35,153	48,487	35,879	53,183	70,487
9	Kissimmee	10,327	14,517	18,707	20,597	28,977	37,357	30,867	43,437	56,007
10	City of Lakeland	9,144	12,937	16,731	17,812	25,400	32,987	26,481	37,862	49,243
11	City of New Smyrna Beach	9,284	15,284	21,284	18,534	30,534	42,534	27,784	45,784	63,784
12	City of Ocala	9,931	15,537	21,143	19,817	31,029	42,241	29,703	46,521	63,339
13	Orlando Utilities Commission	10,796	16,554	22,312	21,554	33,070	44,586	32,312	49,586	66,860
14	City of Tallahassee	12,153	17,372	21,618	24,232	34,670	43,161	36,311	51,968	64,705
<u>Florida Cooperatives</u>										
15	Sumter Electric Cooperative	10,038	17,018	23,998	19,993	33,953	47,913	29,948	50,888	71,828
<u>Investor-Owned Utilities: [2]</u>										
16	Florida Power and Light	11,631	15,985	20,340	23,177	31,886	40,595	34,724	47,787	60,851
17	Gulf Power Company	14,541	20,747	26,953	28,803	41,216	53,628	43,065	61,684	80,303
18	Duke Energy	12,930	20,052	27,174	25,845	40,089	54,333	38,760	60,126	81,493
19	Tampa Electric Company	9,514	12,725	15,937	18,995	25,419	31,843	28,477	38,112	47,748

[1] Amounts shown are based on the rates for single phase service and reflect when applicable, inside city service. In addition, amounts include June 2020 fuel adjustments and franchise fees.

[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>.

City of Winter Park, Florida
Electric Cost of Service Update

Energy Sales By Class (kWh)

Customer Class		Fiscal Year Ending September 30			
		2019	2020	2021	2022
1	Residential	190,270,749	192,515,490	190,210,277	190,210,277
2	General Service Non-Demand	11,551,722	10,874,859	11,319,140	11,319,140
3	General Service Non-Demand 100% LF	453,108	456,874	458,633	458,633
4	General Service Demand	139,961,499	137,539,052	137,814,702	137,814,702
5	General Service Demand TOU	58,935,480	56,451,434	57,929,015	57,929,015
6	Public Authority	22,732,320	24,286,841	22,358,817	22,358,817
7	Lighting	2,113,590	2,087,998	2,090,327	2,090,327
8	Total	426,018,468	424,212,548	422,180,911	422,180,911

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study

Table No. 1

Page 1 of 6

Historical and Projected Customers
Fiscal Years 2019-2022

Ln. No.	Customer Classes (a)	Oct (b)	Nov (c)	Dec (d)	Jan (e)	Feb (f)	Mar (g)	Apr (h)	May (i)	Jun (j)	Jul (k)	Aug (l)	Sep (m)	Total (n)	Average (o)
Historical FY 2019															
1	Residential	12,017	12,005	11,999	12,045	12,059	12,017	12,081	12,089	12,089	12,083	12,078	12,012	144,574	12,048
Commercial															
2	General Service Non-Demand	1,134	1,128	1,127	1,127	1,116	1,114	1,107	1,115	1,102	1,069	1,107	1,099	13,345	1,112
3	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
4	General Service Demand														
5	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
6	Secondary	1,048	1,050	1,054	1,055	1,052	1,060	1,053	1,056	1,048	1,054	1,062	1,062	12,654	1,055
7	Time of Use														
8	Primary	2	2	2	2	2	2	2	1	1	1	1	1	19	2
9	Secondary	19	19	19	18	20	19	19	20	20	19	19	19	230	19
10	Subtotal Commercial	2,244	2,240	2,243	2,243	2,231	2,236	2,222	2,233	2,212	2,184	2,230	2,222	26,740	2,228
Public Authority															
11	General Service Non-Demand	184	186	185	185	185	186	184	188	184	195	195	195	2,252	188
12	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
13	General Service Demand	60	59	61	61	61	60	61	61	60	59	58	60	721	60
14	Time of Use														
15	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
16	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
17	Subtotal Public Authority	269	270	271	271	271	271	270	274	269	279	278	280	3,273	273
Lighting															
18	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
19	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
20	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
21	FY 2019 TOTAL CUSTOMERS	15,325	15,310	15,308	15,354	15,356	15,319	15,368	15,391	15,365	15,341	15,381	15,309	184,127	15,344
Historical FY 2020															
22	Residential	12,092	12,099	12,085	12,113	12,085	12,040	12,032	12,072	12,069	12,143	12,100	12,087	145,017	12,085
Commercial															
23	General Service Non-Demand	1,089	1,098	1,088	1,089	1,088	1,063	1,082	1,112	1,078	1,083	1,070	1,072	13,012	1,084
24	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
25	General Service Demand														
26	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
27	Secondary	1,077	1,066	1,067	1,062	1,062	1,057	1,063	1,059	1,054	1,062	1,046	1,067	12,742	1,062
28	Time of Use														
29	Primary	1	2	1	1	1	1	2	2	2	2	2	2	19	2
30	Secondary	19	19	19	19	20	19	19	19	19	19	19	19	229	19
31	Subtotal Commercial	2,227	2,226	2,216	2,212	2,212	2,181	2,207	2,233	2,194	2,207	2,178	2,201	26,494	2,208
Public Authority															
32	General Service Non-Demand	195	180	182	183	181	195	195	180	196	178	179	181	2,225	185
33	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
34	General Service Demand	57	60	57	58	58	57	57	55	56	56	57	59	630	57
35	Time of Use														
36	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
37	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
38	Subtotal Public Authority	277	265	264	266	264	277	277	205	276	259	261	265	3,155	263
Lighting															
39	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
40	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
41	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
42	FY 2020 TOTAL CUSTOMERS	15,391	15,385	15,360	15,386	15,356	15,293	15,310	15,305	15,333	15,404	15,334	15,348	184,205	15,350

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Historical and Projected Customers
Fiscal Years 2019-2022

Ln. No.	Customer Classes (a)	Oct (b)	Nov (c)	Dec (d)	Jan (e)	Feb (f)	Mar (g)	Apr (h)	May (i)	Jun (j)	Jul (k)	Aug (l)	Sep (m)	Total (n)	Average (o)
Historical FY 2021															
37	Residential	12,126	12,047	12,107	12,082	12,065	12,081	12,061	12,112	12,079	12,097	12,069	12,066	144,992	12,083
Commercial															
38	General Service Non-Demand	1,103	1,070	1,074	1,080	1,070	1,078	1,073	1,064	1,080	1,115	1,081	1,076	12,964	1,080
39	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
General Service Demand															
40	Primary	1	1	1	1	1	1	1	1	1	0	0	0	9	1
41	Secondary	1,077	1,057	1,056	1,050	1,036	1,070	1,054	1,049	1,061	1,059	1,059	1,064	12,692	1,058
Time of Use															
42	Primary	1	1	1	2	2	1	1	1	1	1	1	1	14	1
43	Secondary	20	19	19	19	19	19	19	20	20	19	19	19	231	19
44	Subtotal Commercial	2,242	2,188	2,191	2,192	2,168	2,209	2,188	2,175	2,203	2,234	2,200	2,200	26,390	2,199
Public Authority															
45	General Service Non-Demand	182	182	182	182	183	196	196	180	180	196	196	195	2,250	188
46	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
47	General Service Demand	56	57	59	59	58	57	56	58	56	55	56	56	682	57
Time of Use															
48	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
49	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
50	Subtotal Public Authority	263	264	266	266	266	278	277	263	261	276	277	276	3,232	269
Lighting															
51	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
52	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
53	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
54	FY 2021 TOTAL CUSTOMERS	15,426	15,294	15,359	15,334	15,293	15,364	15,322	15,344	15,339	15,401	15,341	15,336	184,154	15,346
Projected FY 2022															
55	Residential	12,126	12,047	12,107	12,082	12,065	12,081	12,061	12,112	12,079	12,097	12,069	12,066	144,992	12,083
Commercial															
56	General Service Non-Demand	1,103	1,070	1,074	1,080	1,070	1,078	1,073	1,064	1,080	1,115	1,081	1,076	12,964	1,080
57	GS Non-Demand - 100% Load Factor	40	40	40	40	40	40	40	40	40	40	40	40	480	40
General Service Demand															
58	Primary	1	1	1	1	1	1	1	1	1	0	0	0	9	1
59	Secondary	1,077	1,057	1,056	1,050	1,036	1,070	1,054	1,049	1,061	1,059	1,059	1,064	12,692	1,058
Time of Use															
60	Primary	1	1	1	2	2	1	1	1	1	1	1	1	14	1
61	Secondary	20	19	19	19	19	19	19	20	20	19	19	19	231	19
62	Subtotal Commercial	2,242	2,188	2,191	2,192	2,168	2,209	2,188	2,175	2,203	2,234	2,200	2,200	26,390	2,199
Public Authority															
63	General Service Non-Demand	182	182	182	182	183	196	196	180	180	196	196	195	2,250	188
64	GS Non-Demand - 100% Load Factor	23	23	23	23	23	23	23	23	23	23	23	23	276	23
65	General Service Demand	56	57	59	59	58	57	56	58	56	55	56	56	682	57
Time of Use															
66	Primary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
67	Secondary	1	1	1	1	1	1	1	1	1	1	1	1	12	1
68	Subtotal Public Authority	263	264	266	266	266	278	277	263	261	276	277	276	3,232	269
Lighting															
69	Residential	649	649	649	649	649	649	649	649	649	649	649	649	7,788	649
70	Commercial	146	146	146	146	146	146	146	146	146	146	146	146	1,752	146
71	Subtotal Lighting	795	795	795	795	795	795	795	795	795	795	795	795	9,540	795
72	FY 2022 TOTAL CUSTOMERS	15,426	15,294	15,359	15,334	15,293	15,364	15,322	15,344	15,339	15,401	15,341	15,336	184,154	15,346

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2019-2022

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)	(l)	(m)	(n)	(o)
Historical FY 2019															
1	Residential	20,059,385	14,922,098	13,464,512	13,862,510	13,681,753	11,630,802	11,494,848	15,006,519	18,842,877	18,539,574	18,793,014	19,972,857	190,270,749	15,855,896
Commercial															
2	General Service Non-Demand	1,204,533	933,316	770,900	751,735	790,223	728,810	752,168	956,321	1,163,356	1,156,825	1,145,296	1,198,239	11,551,722	962,644
3	GS Non-Demand - 100% Load Factor	38,794	36,755	39,084	39,832	38,145	35,374	36,685	38,009	38,426	36,047	37,648	38,309	453,108	37,759
General Service Demand															
4	Primary	3,656	3,312	3,368	3,338	2,971	2,297	2,501	2,458	2,496	2,574	2,527	2,512	34,010	2,834
5	Secondary	13,492,224	11,398,478	10,325,682	9,949,784	9,792,865	9,724,041	9,866,903	11,770,519	13,154,629	13,264,154	13,212,298	13,975,912	139,927,489	11,660,624
Time of Use															
6	Primary - On Peak	453,600	417,600	338,400	280,800	352,800	266,400	316,800	345,600	273,600	302,400	324,000	324,000	3,996,000	333,000
7	Primary - Off Peak	1,447,200	1,188,000	1,130,400	921,600	1,058,400	936,000	921,600	1,202,400	900,000	964,800	972,000	1,058,400	12,700,800	1,058,400
8	Secondary- On Peak	1,010,290	869,078	857,092	747,581	863,657	740,455	784,908	877,269	898,747	895,516	944,700	1,000,375	10,489,668	874,139
9	Secondary - Off Peak	3,032,333	2,556,009	2,571,460	2,295,822	2,653,437	2,261,177	2,386,991	2,656,395	2,677,335	2,750,783	2,830,329	3,076,941	31,749,012	2,645,751
10	Subtotal Commercial	20,682,630	17,402,548	16,036,386	14,990,492	15,552,498	14,694,554	15,068,556	17,848,971	19,108,589	19,373,099	19,468,798	20,674,688	210,901,809	17,575,151
Public Authority															
11	General Service Non-Demand	122,071	109,533	112,667	110,221	112,497	105,229	101,151	105,126	109,302	105,008	106,120	112,766	1,311,691	109,308
12	GS Non-Demand - 100% Load Factor	8,717	8,768	8,715	9,014	8,657	8,361	8,492	8,653	8,449	8,294	8,313	8,356	102,789	8,566
13	General Service Demand	1,333,369	1,148,341	1,032,453	930,514	1,023,386	963,305	942,525	1,110,564	1,247,664	1,164,270	1,177,820	1,323,229	13,397,440	1,116,453
Time of Use															
14	Primary - On Peak	189,600	177,600	175,200	160,800	194,400	153,600	160,800	153,600	153,600	160,800	158,400	204,000	2,042,400	170,200
15	Primary - Off Peak	540,000	453,600	477,600	412,800	448,800	415,200	386,400	429,600	451,200	424,800	444,000	520,800	5,404,800	450,400
16	Secondary- On Peak	11,300	10,500	9,900	8,800	10,000	8,600	8,200	10,100	11,600	11,800	11,600	12,500	124,900	10,408
17	Secondary - Off Peak	33,000	31,100	23,200	24,400	23,000	24,100	24,000	30,100	32,700	33,100	32,700	36,900	348,300	29,025
18	Subtotal Public Authority	2,238,057	1,939,442	1,839,735	1,656,549	1,820,740	1,678,395	1,631,568	1,847,743	2,014,515	1,908,072	1,938,953	2,218,551	22,732,320	1,894,360
Lighting															
19	Residential	6,416	6,464	6,239	6,343	6,357	6,437	6,419	6,383	6,374	6,374	6,374	6,374	76,554	6,380
20	Commercial	52,350	51,982	51,094	51,194	50,938	51,022	50,873	50,339	48,709	48,929	48,732	48,506	604,668	50,389
21	Public Authority	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	1,432,368	119,364
22	Subtotal Lighting	178,130	177,810	176,697	176,901	176,659	176,823	176,656	176,086	174,447	174,667	174,470	174,244	2,113,590	176,133
23	FY 2019 TOTAL ENERGY SALES	43,158,202	34,441,898	31,517,330	30,686,452	31,231,650	28,180,574	28,371,628	34,879,319	40,140,428	39,995,412	40,375,235	43,040,340	426,018,468	35,501,539

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2019-2022

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)	(l)	(m)	(n)	(o)
Historical FY 2020															
24	Residential	17,790,719	16,858,806	11,971,451	12,479,061	12,466,567	11,947,731	14,439,637	16,739,447	15,780,508	19,600,576	20,639,795	21,801,192	192,515,490	16,042,958
Commercial															
25	General Service Non-Demand	1,078,187	1,050,293	713,526	698,406	746,397	763,336	754,126	779,567	879,733	1,093,173	1,115,059	1,203,056	10,874,859	906,238
26	GS Non-Demand - 100% Load Factor	37,384	40,722	38,108	39,113	37,186	37,220	36,508	39,691	34,879	37,284	37,932	40,847	456,874	38,073
General Service Demand															
27	Primary	2,574	2,856	2,375	2,631	2,631	2,674	2,501	2,656	2,341	2,654	3,030	2,722	31,645	2,637
28	Secondary	12,953,683	13,415,345	10,157,703	10,144,039	9,904,986	10,189,513	10,089,170	10,151,878	10,439,819	12,727,028	13,163,366	14,170,877	137,507,407	11,458,951
Time of Use															
29	Primary - On Peak	381,600	439,200	338,400	223,200	309,600	309,600	280,800	223,200	201,600	280,800	302,400	316,800	3,607,200	300,600
30	Primary - Off Peak	1,224,000	1,260,000	1,123,200	784,800	914,400	950,400	921,600	792,000	676,800	1,008,000	928,800	1,000,800	11,584,800	965,400
31	Secondary- On Peak	896,512	979,559	825,027	726,785	783,714	761,539	813,719	780,802	750,137	869,829	938,451	988,643	10,114,717	842,893
32	Secondary - Off Peak	2,724,329	3,046,002	2,504,672	2,236,850	2,453,579	2,254,428	2,514,471	2,451,079	2,318,457	2,702,507	2,912,331	3,026,012	31,144,717	2,595,393
33	Subtotal Commercial	19,298,269	20,233,977	15,703,011	14,855,824	15,152,493	15,268,710	15,412,895	15,220,873	15,303,766	18,721,275	19,401,369	20,749,757	205,322,219	17,110,185
Public Authority															
34	General Service Non-Demand	110,032	119,500	104,749	105,387	107,397	108,407	95,462	94,231	90,984	103,596	107,656	118,399	1,265,800	105,483
35	GS Non-Demand - 100% Load Factor	8,121	8,541	8,185	8,329	8,230	8,111	8,085	8,491	7,858	8,064	8,168	8,416	98,599	8,217
36	General Service Demand	1,227,764	1,255,607	1,024,827	977,718	1,022,289	1,064,039	1,001,437	973,846	997,227	1,133,633	1,176,676	1,353,779	13,208,842	1,100,737
Time of Use															
37	Primary - On Peak	213,600	216,000	206,400	201,600	223,200	201,600	189,600	165,600	148,800	160,800	480,000	208,800	2,616,000	218,000
38	Primary - Off Peak	559,200	530,400	489,600	472,800	477,600	470,400	458,400	458,400	393,600	420,000	1,317,600	578,400	6,626,400	552,200
39	Secondary- On Peak	10,800	14,100	10,200	9,900	10,300	10,600	6,900	8,000	9,200	10,900	11,700	13,100	125,700	10,475
40	Secondary - Off Peak	30,700	36,900	22,800	22,100	24,400	23,900	20,300	24,300	27,600	33,000	36,800	42,700	345,500	28,792
41	Subtotal Public Authority	2,160,217	2,181,048	1,866,761	1,797,834	1,873,416	1,887,057	1,780,184	1,732,868	1,675,269	1,869,993	3,138,600	2,323,594	24,286,841	2,023,903
Lighting															
42	Residential	6,375	6,360	6,387	6,355	6,399	6,418	6,373	6,383	6,293	6,574	6,371	6,420	76,708	6,392
43	Commercial	48,551	48,551	48,122	48,477	48,928	48,551	48,584	50,339	43,808	47,637	48,584	48,450	578,582	48,215
44	Public Authority	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,704	119,364	1,432,708	119,392
45	Subtotal Lighting	174,290	174,275	173,873	174,196	174,691	174,333	174,321	176,086	169,465	173,575	174,659	174,234	2,087,998	174,000
46	FY 2020 TOTAL ENERGY SALES	39,423,495	39,448,106	29,715,096	29,306,915	29,667,167	29,277,831	31,807,037	33,869,274	32,929,008	40,365,419	43,354,423	45,048,777	424,212,548	35,351,046

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Historical and Projected Energy Sales (kWh)
Fiscal Years 2019-2022

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)	(l)	(m)	(n)	(o)
Historical FY 2021															
47	Residential	17,219,521	15,844,545	14,075,084	15,831,247	12,757,735	12,882,137	12,642,228	15,469,625	17,569,212	17,421,998	18,949,011	19,547,934	190,210,277	15,850,856
Commercial															
48	General Service Non-Demand	949,332	901,212	774,309	722,249	721,524	759,663	816,311	1,041,923	1,151,046	1,099,659	1,161,470	1,220,442	11,319,140	943,262
49	GS Non-Demand - 100% Load Factor	36,570	37,231	39,730	40,732	37,844	38,828	37,465	39,571	38,841	36,346	37,657	37,818	458,633	38,219
General Service Demand															
50	Primary	2,388	2,638	2,422	2,569	2,294	2,624	2,219	2,559	2,705	0	5,001	2,881	30,300	2,525
51	Secondary	11,993,407	11,678,867	10,662,057	9,887,390	9,203,000	10,049,797	9,953,982	11,817,576	12,747,199	12,546,034	13,249,381	13,995,712	137,784,402	11,482,034
Time of Use															
52	Primary - On Peak	381,600	381,600	345,600	266,400	288,000	345,600	295,200	417,600	309,600	324,000	381,600	453,600	4,190,400	349,200
53	Primary - Off Peak	1,296,000	1,144,800	1,087,200	993,600	864,000	1,144,800	1,022,400	1,310,400	1,022,400	1,087,200	1,180,800	1,339,200	13,492,800	1,124,400
54	Secondary- On Peak	819,901	840,882	787,950	788,513	772,808	781,964	944,916	752,686	794,649	844,924	934,891	890,998	9,955,082	829,590
55	Secondary - Off Peak	2,577,592	2,573,838	2,467,349	2,448,273	2,342,391	2,326,125	2,257,138	2,821,861	2,385,721	2,608,058	2,787,376	2,695,011	30,290,733	2,524,228
56	Subtotal Commercial	18,056,790	17,561,068	16,166,617	15,149,726	14,231,861	15,449,401	15,329,631	18,204,176	18,452,161	18,546,221	19,738,176	20,635,662	207,521,490	17,293,458
Public Authority															
57	General Service Non-Demand	106,490	109,405	111,465	104,453	100,859	105,834	95,714	101,286	101,401	95,391	101,911	106,718	1,240,927	103,411
58	GS Non-Demand - 100% Load Factor	8,060	8,147	8,449	8,390	8,235	8,187	8,048	8,238	8,081	7,807	8,005	7,941	97,588	8,132
59	General Service Demand	1,138,967	1,121,623	1,050,131	943,032	940,659	1,025,089	956,800	1,117,629	1,199,768	1,070,459	1,196,458	1,338,787	13,099,402	1,091,617
Time of Use															
60	Primary - On Peak	182,400	175,200	168,000	189,600	184,800	170,400	151,200	158,400	168,000	139,200	146,400	165,600	1,999,200	166,600
61	Primary - Off Peak	559,200	460,800	451,200	484,800	444,000	475,200	391,200	458,400	513,600	405,600	398,400	417,600	5,460,000	455,000
62	Secondary- On Peak	10,100	9,600	10,500	9,400	9,100	8,000	7,500	10,400	8,400	11,400	11,400	12,300	118,100	9,842
63	Secondary - Off Peak	30,400	29,300	26,900	22,000	21,000	22,800	23,300	33,300	26,600	33,700	37,800	36,500	343,600	28,633
64	Subtotal Public Authority	2,035,617	1,914,075	1,826,645	1,761,675	1,708,653	1,815,510	1,633,762	1,887,653	2,025,850	1,763,557	1,900,374	2,085,446	22,358,817	1,863,235
Lighting															
65	Residential	6,419	6,416	6,416	6,416	6,442	6,396	6,409	6,410	6,409	6,390	6,336	6,397	76,856	6,405
66	Commercial	48,117	52,137	48,560	48,646	48,633	48,633	48,667	48,633	48,620	48,650	48,644	42,697	580,637	48,386
67	Public Authority	119,830	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	1,432,834	119,403
68	Subtotal Lighting	174,366	177,917	174,340	174,426	174,439	174,393	174,440	174,407	174,393	174,404	174,344	168,458	2,090,327	174,194
69	FY 2021 TOTAL ENERGY SALES	37,486,294	35,497,605	32,242,686	32,917,074	28,872,688	30,321,441	29,780,061	35,735,861	38,221,616	37,906,180	40,761,905	42,437,500	422,180,911	35,181,743

CITY OF WINTER PARK, FLORIDA
Electric Cost of Service Study

Table No. 1
Page 6 of 6

Historical and Projected Energy Sales (kWh)
Fiscal Years 2019-2022

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)	(l)	(m)	(n)	(o)
Projected FY 2022															
70	Residential	17,219,521	15,844,545	14,075,084	15,831,247	12,757,735	12,882,137	12,642,228	15,469,625	17,569,212	17,421,998	18,949,011	19,547,934	190,210,277	15,850,856
Commercial															
71	General Service Non-Demand	949,332	901,212	774,309	722,249	721,524	759,663	816,311	1,041,923	1,151,046	1,099,659	1,161,470	1,220,442	11,319,140	943,262
72	GS Non-Demand - 100% Load Factor	36,570	37,231	39,730	40,732	37,844	38,828	37,465	39,571	38,841	36,346	37,657	37,818	458,633	38,219
General Service Demand															
73	Primary	2,388	2,638	2,422	2,569	2,294	2,624	2,219	2,559	2,705	0	5,001	2,881	30,300	2,525
74	Secondary	11,993,407	11,678,867	10,662,057	9,887,390	9,203,000	10,049,797	9,953,982	11,817,576	12,747,199	12,546,034	13,249,381	13,995,712	137,784,402	11,482,034
Time of Use															
75	Primary - On Peak	381,600	381,600	345,600	266,400	288,000	345,600	295,200	417,600	309,600	324,000	381,600	453,600	4,190,400	349,200
76	Primary - Off Peak	1,296,000	1,144,800	1,087,200	993,600	864,000	1,144,800	1,022,400	1,310,400	1,022,400	1,087,200	1,180,800	1,339,200	13,492,800	1,124,400
77	Secondary- On Peak	819,901	840,882	787,950	788,513	772,808	781,964	944,916	752,686	794,649	844,924	934,891	890,998	9,955,082	829,590
78	Secondary - Off Peak	2,577,592	2,573,838	2,467,349	2,448,273	2,342,391	2,326,125	2,257,138	2,821,861	2,385,721	2,608,058	2,787,376	2,695,011	30,290,733	2,524,228
79	Subtotal Commercial	18,056,790	17,561,068	16,166,617	15,149,726	14,231,861	15,449,401	15,329,631	18,204,176	18,452,161	18,546,221	19,738,176	20,635,662	207,521,490	17,293,458
Public Authority															
80	General Service Non-Demand	106,490	109,405	111,465	104,453	100,859	105,834	95,714	101,286	101,401	95,391	101,911	106,718	1,240,927	103,411
81	GS Non-Demand - 100% Load Factor	8,060	8,147	8,449	8,390	8,235	8,187	8,048	8,238	8,081	7,807	8,005	7,941	97,588	8,132
82	General Service Demand	1,138,967	1,121,623	1,050,131	943,032	940,659	1,025,089	956,800	1,117,629	1,199,768	1,070,459	1,196,458	1,338,787	13,099,402	1,091,617
Time of Use															
83	Primary - On Peak	182,400	175,200	168,000	189,600	184,800	170,400	151,200	158,400	168,000	139,200	146,400	165,600	1,999,200	166,600
84	Primary - Off Peak	559,200	460,800	451,200	484,800	444,000	475,200	391,200	458,400	513,600	405,600	398,400	417,600	5,460,000	455,000
85	Secondary- On Peak	10,100	9,600	10,500	9,400	9,100	8,000	7,500	10,400	8,400	11,400	11,400	12,300	118,100	9,842
86	Secondary - Off Peak	30,400	29,300	26,900	22,000	21,000	22,800	23,300	33,300	26,600	33,700	37,800	36,500	343,600	28,633
87	Subtotal Public Authority	2,035,617	1,914,075	1,826,645	1,761,675	1,708,653	1,815,510	1,633,762	1,887,653	2,025,850	1,763,557	1,900,374	2,085,446	22,358,817	1,863,235
Lighting															
88	Residential	6,419	6,416	6,416	6,416	6,442	6,396	6,409	6,410	6,409	6,390	6,336	6,397	76,856	6,405
89	Commercial	48,117	52,137	48,560	48,646	48,633	48,633	48,667	48,633	48,620	48,650	48,644	42,697	580,637	48,386
90	Public Authority	119,830	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	119,364	1,432,834	119,403
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92	FY 2022 TOTAL ENERGY SALES	37,486,294	35,497,605	32,242,686	32,917,074	28,872,688	30,321,441	29,780,061	35,735,861	38,221,616	37,906,180	40,761,905	42,437,500	422,180,911	35,181,743

CITY OF WINTER PARK, FLORIDA
LOAD RESEARCH RESULTS[1]

<u>Line</u>	<u>Month</u>	<u>Date</u>	<u>Time</u>	<u>System Peak Demand (MW)</u>	<u>Residential Contribution (%)</u>
	(a)	(b)	(c)	(d)	(e)
1	November 2018	11/8/2018	3:00 PM	72.9	41.0%
2	December 2018	12/12/2018	8:00 AM	67.8	53.0%
3	January 2019	1/29/2019	8:00 AM	67.1	58.0%
4	February 2019	2/22/2019	4:00 PM	66.9	45.8%
5	March 2019	3/11/2019	5:00 PM	65.9	48.5%
6	April 2019	4/30/2019	5:00 PM	81.1	58.0%
7	May 2019	5/28/2019	5:00 PM	91.5	57.1%
8	June 2019	6/25/2019	5:00 PM	97.1	56.9%
9	July 2019	7/16/2019	5:00 PM	92.2	57.7%
10	August 2019	8/9/2019	4:00 PM	92.8	54.4%
11	September 2019	9/9/2019	5:00 PM	92.5	56.8%
12	October 2019	10/22/2019	5:00 PM	88.4	53.7%
13	Average			81.3	53.4%
14	March 2021	3/31/2021	5:00 PM	74.8	50.7%
15	April 2021	4/29/2021	5:00 PM	75.5	54.0%
16	May 2021	5/5/2021	5:00 PM	88.9	52.2%
17	June 2021	6/11/2021	5:00 PM	90.4	56.1%
18	July 2021	7/22/2021	4:00 PM	92.4	54.3%
19	August 2021	8/20/2021	4:00 PM	93.7	53.2%
20	September 2021	9/13/2021	4:00 PM	86.0	48.7%
21	October 2021	10/7/2021	5:00 PM	86.1	54.6%
22	November 2021	11/3/2021	5:00 PM	62.8	47.9%
23	December 2021	12/19/2021	4:00 PM	61.5	50.9%
24	January 2022	1/31/2022	8:00 AM	81.3	60.1%
25	February 2022	2/25/2022	4:00 PM	66.8	39.3%
26	Average			80.0	51.8%

[1] Load research based on measured demands for 95% of residential customers.

CITY OF WINTER PARK, FLORIDA

Electric Cost of Service Study Update

Summary of Projected Revenue Requirements

Fiscal Year Ending September 30

Ln. No.	Description (a)	Test Year 2020 Revenue Requirements (b)	2021 Actual Revenue Requirements (c)	2022 Budget Revenue Requirements (d)	2022-2021 Difference (e)	2022-2020 Difference (f)
Operating Expenses						
1	Operations					
2	Bulk Power	\$18,696,363	\$20,633,965	\$19,678,403	(\$955,562)	\$982,040
3	Gross Receipts Tax	1,152,998	1,117,688	1,099,879	(17,809)	(53,119)
4	Electric Capital	1,180,000	932,165	1,230,982	298,817	50,982
5	Other Operations	1,836,636	1,774,959	2,218,889	443,930	382,253
6	Total Operations	22,865,997	24,458,777	24,228,153	(230,624)	1,362,156
7	Undergrounding	4,425,000	5,229,881	6,439,743	1,209,862	2,014,743
8	Other Capital Projects	0	572,860	2,209,000	1,636,140	2,209,000
9	Tree Trimming	656,996	652,192	658,947	6,755	1,951
10	Warehousing	378,031	330,775	309,146	(21,629)	(68,886)
11	Street Lighting	480,000	92,643	510,000	417,358	30,000
12	Utility Billing	713,923	784,270	872,596	88,326	158,673
13	Meter Servicing	388,618	208,300	252,761	44,461	(135,857)
14	Administration	1,148,486	1,393,692	1,466,900	73,208	318,414
15	Total Operating Expenses	31,057,051	33,723,390	36,947,246	3,223,856	5,890,194
Other Revenue Requirements						
16	Debt Service	4,791,526	5,071,814	4,783,940	(287,874)	(7,586)
17	Interfund Administrative Services	1,728,412	1,740,681	1,696,582	(44,099)	(31,830)
18	Transfer to General Fund	2,545,301	2,470,947	2,428,037	(42,910)	(117,264)
19	Other Transfers	255,698	715,317	249,747	(465,570)	(5,951)
20	Contingency	2,219,838	0	1,033,364	1,033,364	(1,186,474)
21	Replenish Cash Reserves	2,314,351	0	0	0	(2,314,351)
22	Total Other Revenue Requirements	13,855,126	9,998,759	10,191,670	192,911	(3,663,456)
23	TOTAL REVENUE REQUIREMENTS	\$44,912,177	\$43,722,149	\$47,138,916	\$3,416,767	\$2,226,738

CITY OF WINTER PARK, FLORIDA

Cost of Service Study and Rate Design for Electric Utility



PRESENTED BY: Craig Shepard, Project Manager

August 5, 2025



Leidos Engineering, LLC

- ▶ Has provided consulting services to Florida cities for over 70 years
- ▶ Nationally known company
- ▶ Recent Electric COS Studies for Cities of Tallahassee, Ocala, Bartow, Mount Dora, Lake Worth Beach
- ▶ Has prepared Electric Rate Trend Studies
- ▶ Office in Orlando, Florida
- ▶ Local connection
- ▶ Licensed in Florida
- ▶ Prepared Winter Park COS Study in 2021, Updated 2022

City of Winter Park Electric Utility

- ▶ Owned and operated by the City of Winter Park
- ▶ Purchased System from Progress Energy in 2005
- ▶ Local control, reliable power, community based
- ▶ Not for Profit
- ▶ Provides for jobs in the City
- ▶ Provides for Economic Development
- ▶ Returns \$ Millions annually to the City
- ▶ Goal to reach 100% non-carbon by 2050
- ▶ 2025 Reliability Awards from FMPA



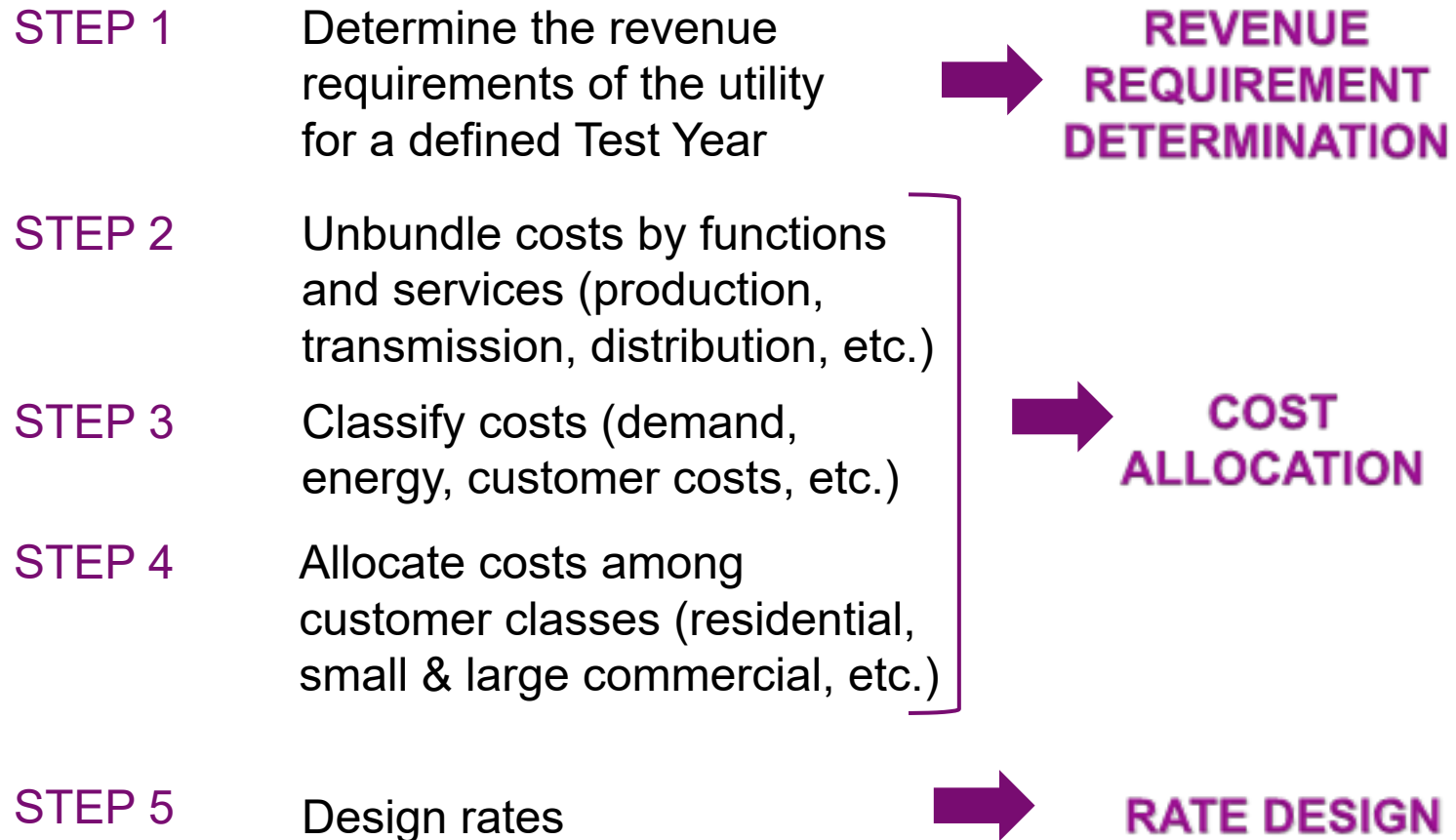
Scope of Services Electric COS Study

- ▶ Review 2026 Budget and other financial documents
- ▶ Adjust 2026 Budget for known changes
- ▶ Develop Test Year Revenue Requirements
- ▶ Test Adequacy of Rates for 2026-2031
- ▶ Conduct a COS Analysis
 - ▶ Determine class (Residential, Small Commercial, Large Commercial, Lighting) contribution to costs
- ▶ Conduct a Net Energy Metering (NEM) Analysis and Stakeholder Outreach
 - ▶ Research and Analysis
 - ▶ Education and Outreach
 - ▶ Stakeholder Survey
 - ▶ Develop NEM Rate Design Options

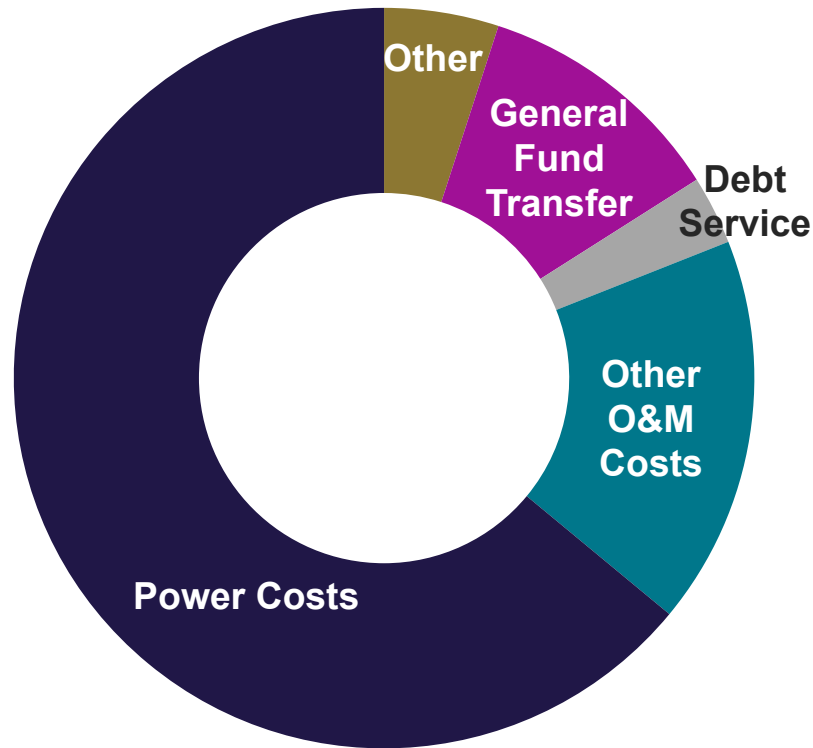
Scope of Services - Continued

- ▶ If necessary, revise rates according to City policies, the Federal Energy Regulatory Commission, and the Florida Public Service Commission guidelines
- ▶ Include review of Fuel Adjustment policy, capital improvement plan and funding, and EV charger rate design
- ▶ Finalize Study and Present Results
- ▶ Frequent communication with City team

COS Study Overview



Test Year 2026 Electric Revenue Requirements



Cost of Service Allocations

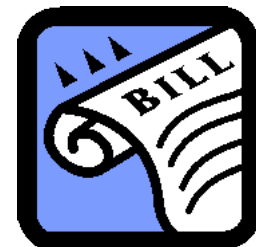
Demand (Fixed)



Energy (Variable)



Customer



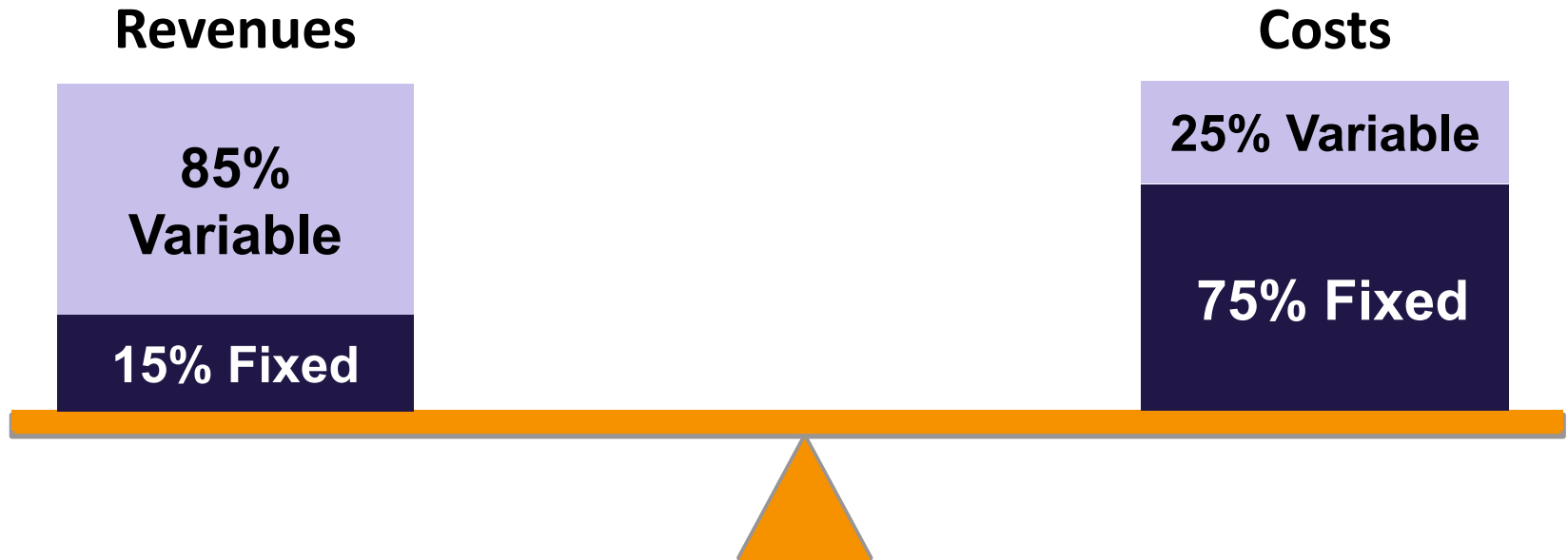
Electric COS Study

Cost of Service Results

Test Year Ending September 30, 2026			
Customer Class	Revenues	COS	Difference
Residential	\$	\$	%
Small Commercial	\$	\$	%
Large Commercial	\$	\$	%
Lighting	\$	\$	%
TOTAL SYSTEM	\$	\$	<u>%</u>

Rate Design

Electric Fixed / Variable Balance



Proposed Pricing

- ▶ Proposed cost not to exceed \$109,000 for COS Study
- ▶ Proposed schedule September 2025 – February 2026
- ▶ High-quality product
- ▶ City will benefit from Leidos' experience and existing COS Models
- ▶ City will have defensible basis for Electric Rates
- ▶ City can use COS Models for future planning

Questions / Comments

POINT OF CONTACT

Craig R. Shepard

PRINCIPAL ANALYST / PROJECT MANAGER

407.648.3538

12901 Science Drive

Orlando, FL 32826

craig.r.shepard@leidos.com

Visit us at energy.leidos.com