



April 1, 2025

Adam Teitzman
Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Blvd
Tallahassee, Florida 32399-0850

Subject: 2025 Orlando Utilities Commission Ten-Year Site Plan

Dear Mr. Teitzman,

Enclosed please find an electronic copy of the 2025 Orlando Utilities Commission ("OUC") Ten-Year Site Plan ("TYSP"). The 2025 OUC TYSP was prepared by nFront Consulting LLC ("nFront") and is being submitted by nFront on behalf of OUC.

If you have any questions about this TYSP, please do not hesitate to contact me.

Respectfully submitted,

/s/ 

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Orlando Utilities Commission 2025 Ten-Year Site Plan

Prepared by:
nFront Consulting LLC
April 2025



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1.0 EXECUTIVE SUMMARY

This report documents the 2025 Orlando Utilities Commission (“OUC”) Ten-Year Site Plan pursuant to Section 186.801 Florida Statutes and Section 25-22.070 of Florida Administrative Code. OUC’s Ten-Year Site Plan provides information required by this rule and consists of the following additional sections:

- Utility System Description (Section 2.0)
- Strategic Issues (Section 3.0)
- Forecast of Peak Demand and Energy Consumption (Section 4.0)
- Demand-Side Management (Section 5.0)
- Forecast of Facilities Requirements (Section 6.0)
- Supply-Side Alternatives (Section 7.0)
- Economic Evaluation Criteria and Methodology (Section 8.0)
- Analysis and Results (Section 9.0)
- Environmental and Land Use Information (Section 10.0)
- Conclusions (Section 11.0)
- Ten-Year Site Plan Schedules (Section 12.0)

In December 2020 OUC finalized an Electric Integrated Resource Plan (“EIRP”), which provides a roadmap to enable OUC to achieve its goal of Net Zero Carbon by 2050, as well as interim goals of 50% carbon emissions reductions by 2030 and 75% carbon emissions reductions by 2040 as compared to 2005 levels. The first major steps outlined to achieve these carbon reduction targets were to convert one coal fired generating unit (Stanton Energy Center Unit 1) to cleaner-burning natural gas no later than 2025, convert the other coal unit (Stanton Energy Center Unit 2) to cleaner-burning natural gas no later than 2027, and install 1,524 MWac of solar and 350 MW of energy storage by 2030.¹

In September 2021, OUC purchased the Osceola Generating Station (“OGS”), which better enables large-scale solar farms by mitigating the intermittency of solar power, the utility’s most viable source of renewable energy. The purchase of OGS also allows OUC to place its oldest coal-fired power plant, Stanton Unit 1 located in East Orange County at the utility’s Stanton Energy Center (“SEC”), into extended cold shutdown by the end of May 2026 in lieu of converting this unit to cleaner burning natural gas. The OGS purchase further provides OUC an extra layer of resiliency with emergency backup fuel to help prevent power disruption events as seen in Texas in early 2022 and elsewhere in the United States since then.

The purchase of OGS from Genova, a Texas-based private ownership group, will not change OUC’s commitment in its Electric Integrated Resource Plan (“EIRP”) to reduce dependence on coal-fired generation and further diversify its generation fleet.

OGS is comprised of three separate turbines, known in the industry as “peakers,” which can turn on and off quickly as opposed to the larger, Stanton Unit 1 turbine that requires more fuel and takes many hours to turn on. OGS can power up in just minutes. The acquisition of OGS and placing Stanton Unit 1 into

¹ OUC anticipates refreshing its Electric Integrated Resource Plan within the next 18 months.

extended cold shutdown will change OUC's generation portfolio, making it more flexible in managing intermittent resources, and most importantly, as OUC's primary goal, reducing CO₂ emissions.

OUC remains committed to meeting the EIRP's objectives, which include increasing solar energy and other renewable resources for electric generation, and reducing carbon dioxide emissions by 50% by 2030 and 75% in 2040 as compared to 2005 levels before reaching Net Zero emissions by 2050.

OUC is aggressively increasing its reliance on solar energy, having added approximately 256 MW since late 2020. Meanwhile, OUC is exploring energy storage solutions and the use of other clean energy assets in addition to investing in electrification programs that would result in further carbon dioxide reductions and cleaner air for our community.

OUC continues to assume responsibility for supplying all of the City of St. Cloud ("St. Cloud") loads through calendar year 2042. Load forecasts for OUC and St. Cloud have been integrated into one forecast, and details of the aggregated load forecast are provided in Section 4.0, including base-case growth, high-growth, and low-growth scenarios.

OUC has contracts to provide power to the City of Lake Worth Beach ("Lake Worth") through calendar year 2025, the City of Winter Park ("Winter Park") through calendar year 2026, the City of Mount Dora ("Mt. Dora") through 2030, the City of Chattahoochee ("Chattahoochee") through 2027, and Lakeland Electric ("Lakeland") through 2026. The power OUC is currently planning to provide to Lake Worth, Winter Park, Mt. Dora, Chattahoochee, and Lakeland is summarized in Section 2.0.

OUC is a member of the Florida Municipal Power Pool ("FMPP"), which consists of OUC, Lakeland, and the Florida Municipal Power Agency ("FMPA") All-Requirements Project. Power for OUC is supplied by units owned entirely by OUC, as well as units in which OUC maintains joint ownership and power purchases. OUC's total capacity as of January 1, 2025, including capacity from units owned by OUC, St. Cloud's entitlement to Stanton Energy Center Unit 2, and OUC's current power purchases (including natural gas, landfill gas, and solar resources), provides total net summer capacity of approximately 2,453 megawatts ("MW") and total net winter capacity of approximately 2,359 MW².

As discussed throughout this Ten-Year Site Plan, consideration of OUC's current generating resources (including existing and planned power purchase agreements) and OUC's current base-case load forecast indicate that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034.

² Net seasonal capacity ratings as of January 1, 2025. Includes capacity owned by OUC and St. Cloud, as well as OUC's contractual power purchases.

2.0 UTILITY SYSTEM DESCRIPTION

At the turn of the 20th century, John M. Cheney, an Orlando, Florida judge, organized the Orlando Water and Light Company and supplied electricity on a part-time basis with a 100-kilowatt (“kW”) generator. Twenty-four-hour service began in 1903. The population of the City of Orlando (“City”) had grown to roughly 10,000 by 1922, and Cheney, realizing the need for wider services than his company was capable of supplying, urged his friends to work and vote for a \$975,000 bond issue to enable the citizens of Orlando to purchase and municipally operate his privately-owned utility. The bond issue passed by a margin of almost three to one, as did a subsequent issue for additional improvements. The citizens of Orlando acquired Cheney’s company and its 2,795 electricity and 5,000 water customers for a total initial investment of \$1.5 million.

In 1923, OUC was created by the state legislature as an independent statutory commission with its own Board as a part of the government of the City. OUC was granted full authority to operate electric and water municipal utilities. The business was a paying venture from the start. By 1924, the number of customers had more than doubled. When Orlando citizens took over operation of their utility, the City’s population was less than 10,000; by 1925, it had grown to 23,000.

OUC has full authority over the management and control of the electric and waterworks plants in the City, those it has built or acquired and has been approved by the Florida legislature to offer these services in Osceola County, as well as Orange County. OUC’s charter has been amended a number of times since 1923 and it now allows it to undertake, among other things, the acquisition, construction, operation, and maintenance of electric generation, transmission, and distribution systems, chilled water systems, as well as water production, transmission, and distribution systems, to meet the requirements of its customers. In addition, OUC offers a variety of energy and compliance services through interlocal agreements with other municipal utilities.

In 1997, OUC entered into an Interlocal Agreement with the City of St. Cloud in which OUC assumed operational control of St. Cloud’s electric systems and the responsibility for supplying all of St. Cloud’s loads for the 25-year term of the agreement, which added an additional 150 square miles of service area. OUC also assumed management of St. Cloud’s existing generating units and power purchase contracts. This agreement has been extended through 2042.

2.1 Existing Generation System

Presently, OUC has ownership interests in four electric generating plants, which are described further in this section. Table 2-1 summarizes OUC’s generating facilities as of January 1, 2025, which include:

- Stanton Energy Center Units 1 and 2, Stanton A, and Stanton B.
- Indian River Plant Combustion Turbine Units A, B, C, and D³.
- Osceola Generating Station Units 1, 2, and 3.
- Florida Power & Light Company (“FPL”) St. Lucie Unit 2 Nuclear Generating Facility.

³ As discussed throughout this report, OUC has purchased the steam units at the Indian River site; however, the units are currently in extended cold shutdown and, therefore, are not included in calculations of OUC’s available capacity.

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Table 2-1 Summary of OUC Generation Facilities

(As of January 1, 2025)

PLANT NAME	UNIT NO.	LOCATION (COUNTY)	UNIT TYPE	FUEL		FUEL TRANSPORT		COMMERCIAL IN-SERVICE MONTH/YEAR	EXPECTED RETIREMENT MONTH/YEAR	NET CAPABILITY	
				Pri	Alt	Pri	Alt			Summer MW	Winter MW
Indian River	A	Brevard	GT	NG	FO2	PL	TK	06/89	Unknown	16 ⁽¹⁾	18 ⁽¹⁾
Indian River	B	Brevard	GT	NG	FO2	PL	TK	07/89	Unknown	16 ⁽¹⁾	18 ⁽¹⁾
Indian River	C	Brevard	GT	NG	FO2	PL	TK	08/92	Unknown	83 ⁽²⁾	88 ⁽²⁾
Indian River	D	Brevard	GT	NG	FO2	PL	TK	10/92	Unknown	83 ⁽²⁾	88 ⁽²⁾
Stanton Energy Center	1	Orange	ST	BIT	NG	RR	PL	07/87	Unknown ⁽³⁾	311 ⁽⁴⁾	311 ⁽⁴⁾
Stanton Energy Center	2	Orange	ST	BIT	NG	RR	PL	06/96	Unknown	352 ⁽⁵⁾	352 ⁽⁵⁾
Stanton Energy Center	A	Orange	CC	NG	FO2	PL	TK	10/03	Unknown	184 ⁽⁶⁾	189 ⁽⁶⁾
Stanton Energy Center	B	Orange	CC	NG	FO2	PL	TK	02/10	Unknown	292	307
St. Lucie	2	St. Lucie	NP	UR	--	TK	--	06/83	Unknown	60 ⁽⁷⁾	62 ⁽⁷⁾
Osceola Generating Station	1	Osceola	GT	NG	FO	PL	TK	12/2001	Unknown	157 ⁽⁸⁾	157 ⁽⁸⁾
Osceola Generating Station	2	Osceola	GT	NG	FO	PL	TK	12/2001	Unknown	157 ⁽⁸⁾	157 ⁽⁸⁾
Osceola Generating Station	3	Osceola	GT	NG	FO	PL	TK	06/2002	Unknown	157 ⁽⁸⁾	157 ⁽⁸⁾
⁽¹⁾ Reflects an OUC ownership share of 48.8 percent. ⁽²⁾ Reflects an OUC ownership share of 79.0 percent. Indian River Unit D is currently off-line for maintenance and expected to return to service by the winter 2025/26 peak period. ⁽³⁾ As discussed throughout this 10-Year Site Plan, OUC currently anticipates placing Stanton Energy Center Unit 1 into extended cold shutdown by the end of May 2026. ⁽⁴⁾ Reflects an OUC ownership share of 68.6 percent. ⁽⁵⁾ Reflects an OUC ownership share of 71.6 percent and St. Cloud entitlement of 3.4 percent. ⁽⁶⁾ Reflects an OUC ownership share of 28.0 percent. ⁽⁷⁾ OUC owns approximately 6.1 percent of St. Lucie Unit No. 2. Reliability exchange divides 50 percent power from Unit No. 1 and 50 percent power from Unit No. 2. ⁽⁸⁾ Osceola Generating Station Unit 2 is currently not able to provide power to OUC but expected to be able to provide power to OUC by the summer 2026 peak period. Osceola Generating Station Units 1 and 3 are currently not able to provide power to OUC but are anticipated to be able to provide power to OUC by the summer of 2025 peak period.											

The Stanton Energy Center is located 12 miles southeast of Orlando, Florida. The 3,280-acre site contains Units 1 and 2, as well as Units A and B, and the necessary supporting facilities. Stanton Unit 1 was placed in commercial operation on July 1, 1987, followed by Stanton Unit 2, which was placed in commercial operation on June 1, 1996. Both units are fueled primarily by pulverized coal and can generate up to approximately 70 MW each on natural gas, utilize natural gas igniters, and operate at emission levels that are within the Environmental Protection Agency ("EPA") and the Florida Department of Environmental Protection ("FDEP") requirement standards for sulfur dioxide ("SO₂"), nitrogen oxides ("NO_x"), and particulates ("PM"). Stanton Unit 1 is a 453 MW net coal-fired facility; OUC has a 68.6 percent ownership share of this unit, which provides approximately 311 MW of capacity to the OUC system. Stanton Unit 2 is a 463 MW net coal-fired generating facility; OUC maintains a 71.6 percent (approximately 336 MW) ownership share of this unit. OUC anticipates placing Stanton Unit 1 into extended cold shutdown by the end of May 2026 and converting Stanton Unit 2 to no longer operate on coal and instead operate only on natural gas after the 2027 timeframe; OUC is in the process of determining the final timing of these changes.

OUC entered into an agreement with Kissimmee Utility Authority (KUA), FMPA, and Southern Company-Florida LLC ("SCF", an affiliate of Southern Power), which governs the ownership of Stanton A, a combined cycle unit at the Stanton Energy Center that began commercial operation on October 1, 2003. NextEra Energy purchased Southern Power's interest in Stanton A, and as such, discussion of Stanton A's ownership structure refers to NextEra Energy throughout this Ten-Year Site Plan, as appropriate. OUC, KUA, FMPA, and NextEra Energy are joint owners of Stanton A, with OUC maintaining a 28 percent ownership share (and purchases 52 percent), KUA and FMPA each maintaining 3.5 percent ownership shares, and NextEra Energy maintaining the remaining 65 percent of Stanton A's capacity. Stanton A is a 2 X 1 combined cycle utilizing General Electric combustion turbines. Stanton A is dual-fueled with natural gas as the primary fuel and No. 2 oil as the backup fuel.

Stanton B is a 1 X 1 combined cycle utilizing General Electric combustion turbines. Stanton B is dual-fueled with natural gas as the primary fuel and No. 2 oil as the backup fuel. OUC is the sole owner of Stanton B.

The Indian River Plant is located four miles south of Titusville on US Highway 1. The 160-acre Indian River Plant site contains three steam electric generating units (No. 1, 2, and 3) and four combustion turbine units (A, B, C, and D). The three steam turbine units were sold to Reliant Energy in 1999, with OUC subsequently repurchasing the units in 2012. Given their current condition (the units are currently in extended cold shutdown), the Indian River steam units do not provide generating capacity for OUC, but do provide OUC with future options for new generating capacity. The combustion turbine units are primarily fueled by natural gas, with No. 2 fuel oil as an alternative. OUC has a partial ownership share of 48.8 percent (approximately 16 MW summer and 18 MW winter, per unit) in Indian River Units A and B, as well as a partial ownership share of 79 percent (approximately 83 MW summer and 88 MW winter, per unit) in Indian River Units C and D.

OUC has a 6.08951 percent ownership share in St. Lucie Unit 2 (a nuclear generating facility operated by FPL), providing approximately 60 MW of summer and 62 MW of winter generating capacity to OUC. A reliability exchange with St. Lucie Unit 1 results in half of the capacity being supplied by St. Lucie Unit 1 and half by St. Lucie Unit 2.

St. Cloud has an entitlement to capacity from Stanton Unit 2 associated with its purchase through FMPA (related to FMPA's participation in the Stanton II Project). FMPA's ownership stake in Stanton Unit 2 through the Stanton II Project is 23.2 percent, and St. Cloud's purchase from FMPA's Stanton Unit 2 ownership is 14.67 percent (providing approximately 15 MW).

The Osceola Generating Station is comprised of three separate turbines, with each unit providing 157 MW of summer and winter capacity. Osceola Unit 1 and Osceola Unit 3 are expected to be capable of delivering power to OUC by the summer of 2025 peak period following completion of necessary maintenance and transmission system improvements. Osceola Unit 2 is currently not able to provide power to OUC but is expected to be able to provide power by the winter 2025/2026 peak period.

2.2 Purchase Power Resources⁴

OUC has a purchase power agreement ("PPA") with NextEra Energy for 80 percent of NextEra Energy's 65 percent ownership share of Stanton A through December 2031, as well as an additional PPA with NextEra Energy to purchase the remaining 20 percent of NextEra Energy's 65 percent ownership share of Stanton A through December 2028.

2.3 Power Sales Contracts

OUC has the following contractual power sales:

- a contract to provide power to the City of Lake Worth Beach ("Lake Worth") through 2025.
- a contract to provide power to the City of Winter Park ("Winter Park") through 2026.
- a contract to provide power to the City of Mt. Dora ("Mt. Dora") through 2030.
- a contract to provide power to the City of Chattahoochee ("Chattahoochee") through 2027.
- a contract to provide power to Lakeland Electric ("Lakeland") through 2026.

For purposes of this Ten-Year Site Plan, OUC has assumed the winter and summer capacities and annual energy presented in Table 2-2 will be provided to Lake Worth, Winter Park, Lakeland, Mt. Dora, and Chattahoochee.

⁴ OUC's renewable power purchases are discussed in Section 2.4 of this Ten-Year Site Plan.

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Table 2-2 Projected Annual Summer and Winter Peak Capacity (MW) and Annual Net Energy for Load (GWh) to be Provided to Lake Worth, Winter Park, Mt. Dora, Chattahoochee, and Lakeland

	SUMMER MW				
Calendar Year	Lake Worth	Winter Park	Mt. Dora	Chattahoochee	Lakeland
2025	48	17	26	9	100
2026	0	17	26	9	100
2027	0	0	27	9	0
2028	0	0	27	0	0
2029	0	0	27	0	0
2030	0	0	28	0	0
2031	0	0	0	0	0
2032	0	0	0	0	0
2033	0	0	0	0	0
2034	0	0	0	0	0
	WINTER MW				
Calendar Year	Lake Worth	Winter Park	Mt. Dora	Chattahoochee	Lakeland
2025	18	17	19	6	50
2026	0	17	19	7	50
2027	0	0	19	7	0
2028	0	0	20	0	0
2029	0	0	20	0	0
2030	0	0	20	0	0
2031	0	0	0	0	0
2032	0	0	0	0	0
2033	0	0	0	0	0
2034	0	0	0	0	0
	ANNUAL GWh				
Calendar Year	Lake Worth	Winter Park	Mt. Dora	Chattahoochee	Lakeland
2025	245	98	106	36	35
2026	0	98	108	37	35
2027	0	0	110	37	0
2028	0	0	112	0	0
2029	0	0	114	0	0
2030	0	0	116	0	0
2031	0	0	0	0	0
2032	0	0	0	0	0
2033	0	0	0	0	0
2034	0	0	0	0	0
All Summer and Winter MW are non-coincident. All rounded to nearest MW or GWh					

2.4 OUC's Renewable Energy and Sustainability Initiatives and Community Activities

OUC is actively incorporating renewable technologies into its diverse generation portfolio and taking other steps to reduce carbon dioxide (“CO₂”) emissions. In 2020, OUC established new clean energy goals to achieve a 50 percent reduction in CO₂ emissions by 2030⁵, a 75 percent reduction in CO₂ emissions by 2040⁶, and net-zero CO₂ emissions by 2050. These targets require investments in technologies such as solar photovoltaic (“PV”) and energy storage. Such technologies will allow OUC to meet customer electricity demand while reducing CO₂ emissions.

Renewable energy, energy efficiency, sustainability and community engagement are crucial to achieving OUC's clean energy goals. OUC's recent renewable energy and sustainability initiatives, as well as activities in the community and customer education programs, are discussed in the following subsections⁷.

In 2019, Orlando was selected as a recipient of a \$2.5 million grant from the American Cities Climate Challenge (“ACCC”), a Bloomberg Philanthropies initiative that aims to accelerate and deepen efforts to make the greatest positive impact on climate change. The City and OUC agreed to the following actions:

1. Meet municipal electricity demand with renewable resources
2. Expand solar projects in the community
3. Develop a green building incentive program
4. Pilot demonstration projects for building decarbonization
5. Driving Energy Efficiencies Performance (“DEEP”)
6. Electrify city fleets and buses
7. Expand public EV charging infrastructure
8. Transform the EV market
9. Develop local energy resource centers.

2.4.1 Solar

OUC is actively working to provide more opportunities for its customers to participate in solar projects and programs. These initiatives include Solar Net Metering, TruNet Solar, a Battery Rebate, OUCommunity Solar, SunChoice®, and the Solar Thermal rebate Program.

- Customers who participate in the Solar PV Program or the OUCollective Solar Program receive the benefit of net metering, a metering and billing methodology whereby customer-owned renewable generation is allowed to offset the customer's electricity consumption on-site. Customers are billed using standard retail rates for the net energy delivered by OUC to the customer during the billing period (energy delivered by OUC to the customer less energy supplied by the customer to OUC). This program is being modified and renamed to TruNet Solar effective July 1, 2025.

⁵ Compared to a 2005 CO₂ baseline.

⁶ Compared to a 2005 CO₂ baseline.

⁷ Please refer to Section 5.0 of this Ten-Year Site Plan for discussion of OUC's conservation and demand-side management programs.

- Customers who take part in the OUCollective Solar Program are able to reduce installation costs by leveraging economies-of-scale to drive down the costs for PV systems as well as for energy storage. Under the OUCollective Solar Program, customers have access to installations for a discounted fixed price and from a contractor that has been vetted by OUC. As of March 1, 2025, 110 customers, representing a total of 1,265 kW of capacity, interconnected as part of the program. The OUCollective program is currently paused during the transition to TruNet Solar.
- In 2019, OUC introduced a pilot energy storage rebate program for residential solar PV customers. Under this program, eligible residential electric customers receive a one-time rebate of up to \$2,000 (limit one per customer) for the first 50 customers. In order to qualify for the rebate, batteries must be paired with a solar PV system and meet certain size and insurance requirements. This program exceeded its goal, with over 90 batteries installed as of January 1, 2024. OUC will reintroduce an energy storage rebate on July 1, 2025 of \$150 per rated kWh, up to \$2,000.
- Residential and commercial customers enrolled in the OUCommunity Solar program can get access to sustainable, maintenance-free solar energy without the costs associated with installing panels on their homes or businesses. Those enrolled subscribe at a small premium to receive between 10 percent to 100 percent of their energy from OUC's solar resources.
- Residential customers participating in the Solar Thermal Program receive a rebate of \$900 for installing a solar water heating system. Federal incentives, such as the investment tax credit, are available to eligible customers to help minimize costs of solar PV, energy storage and solar thermal systems.

In 2024, OUC introduced its SunChoice© program, which is intended to allow commercial customers to demonstrate their commitment to the deployment of utility scale solar arrays and secure Renewable Energy Certificates ("RECs") as evidence of their commitment to offsetting their consumption with renewable energy sources. The program costs are in addition to a customer's standard utility bill. The program acts as a market signal to OUC indicating the customer's interest in seeing OUC deploy additional solar arrays as a generation source in Central Florida, made possible by the program's proceeds.

SunChoice© allows commercial customers to subscribe a percentage of their actual consumption, in 10 percent tranches, to the program. Customers pay tiered prices associated with their subscription level. OUC retires the RECs in the customer's name annually based on their subscription level and the actual quantity of energy they consume.

In 2024, OUC's Commission approved a change effective July 1, 2025, to its net metering tariff, now referred to as TruNet Solar. Under this revised tariff all energy delivered by OUC to the customer will be billed using standard retail rates and all energy supplied by the customer to OUC will be credited as follows:

- Existing rooftop solar customers that have submitted a complete interconnection application for their current premises by June 30, 2025 ("grandfathered customer"):
 - The credit rate per kWh until June 30, 2045, shall equal the sum of the non-fuel base and fuel charge (currently 10.65¢/kWh for residential customers). This amount is subject to change based on market conditions.

- For residential customers the non-fuel base charge shall not include the conservation adder for all additional kWh over 1,000.
- For time of use (“TOU”) customers the energy supplied to OUC by the customer will be measured and credited by distinct TOU time periods.
- After June 30, 2045, the credit rate per kWh shall equal the levelized fuel charge.

For all other customers (including those taking over an account on or after July 1, 2025, from a grandfathered customer) the credit rate per kWh until June 30, 2030, shall equal the community solar energy rate (currently 4.567¢/kWh) and the levelized fuel charge thereafter. This amount is subject to change based on market conditions.

OUC will reintroduce a customer-owned battery rebate effective July 1, 2025 for batteries purchased after July 1, 2025 that are connected to a customer-owned solar array. This rebate, \$150 per rated kW installed, up to \$2,000, offers customers who install or who may already have an existing array the opportunity to receive full retail rate credit for the solar they generate and dispatch for their own use. For customers redeeming the rebate the credit rate for all the energy they supply to OUC under the TruNet solar tariff will be the community solar farm energy rate until June 23, 2030 and the levelized fuel charge thereafter.

In 2023, OUC executed two PPAs with NextEra for 149 MW of new utility-scale solar capacity from two new solar farms, Storey Bend and Harmony 2 that began commercial operation on December 18, 2024. Both sites are located in Osceola County. The new solar capacity will produce enough to serve about 27,000 typical Florida homes.

The Florida Municipal Solar Project is one of the largest municipal-backed solar projects in the United States. Approximately 900,000 solar panels will be installed on three solar sites in Osceola and Orange counties. Total planned capacity is 223.5 MWac, which is enough energy to power 45,000 average Florida homes. Each solar site is designed to generate 74.5 MWac of energy. OUC is a stakeholder in two of the sites, the Taylor Creek and Harmony Solar Energy Centers, which began operating in the summer of 2020. Under power purchase agreements with NextEra, OUC receives 108.5MWac from the two facilities, enough energy for 21,600 typical Florida homes. These two solar sites started commercial operations on June 30, 2020.

As part of a pilot program, a 4-megawatt, 8-megawatt-hour battery energy storage system (“BESS”) was installed at OUC Substation 29 in east St. Cloud. Substation 29 is connected to transmission lines that support the solar array at the Harmony Solar Energy Center.

In order to better utilize solar energy and increase its reliability during cloudy weather, OUC has embarked in designing its own advanced algorithms and control schemes. This has taken form in the project known as “Nanogrid,” a living laboratory for testing the interoperability of multiple distributed energy resources and the ability to self-operate at OUC’s Gardenia facility. Nanogrid currently is comprised of 59 kWac of floating solar, 100 kW of lithium iron phosphate batteries, DC fast charging, DC-coupled battery fast charger. Level 2 EV charging, V2G EV charging, as well as an intelligent control system developed in partnership with UCF – with more technology already in the planning stages. This level of control will enable solar to become more reliable during intermittent weather as well as help to drive down costs for energy storage. In 2022, OUC added 16 kW/64 kWh of flywheel energy storage. OUC plans to add super capacitors to the operations and integrated into the controls of Nanogrid to test their operational value to the grid.

OUC is also evaluating the efficiency of different solar PV technologies through real-world testing. In particular, OUC installed a 104 kWdc solar array on the rooftop of its Gardenia office building in 2022. This array is comprised of bifacial solar modules, which provide increased output as compared to mono-facial modules. This test array enables OUC to evaluate any efficiency gains of bifacial panels in a real-world environment, which will inform decisions around large-scale solar PV installations in the future.

To promote customer awareness and increase education, OUC also has showcased solar energy with high-visibility solar sculptures, including “solar trees” at Camping World Stadium and the Orange County Convention Center and, most recently, a soccer ball-shaped solar sculpture situated outside Exploria Stadium, home to the Orlando City Soccer Club. The soccer ball sculpture was designed by University of Central Florida (“UCF”) students through a multi-department competition. Additionally, OUC has deployed multiple solar mobile device charging stations at LYNX bus shelters to power up electronic devices while passengers are waiting.

In 2019, OUC began to deploy weather stations with advanced sensors and measurement equipment that would record data including solar irradiance, beam radiation, wind speed, and soil moisture. With over 20 weather stations installed across our service territory, OUC is developing the capability to enhance solar production forecasting specifically to address high solar intermittency caused by dynamic cloud formation and cover, a common occurrence in Florida’s climate. In 2020, OUC began testing cloud-tracking technology at two solar farms. Created through a collaboration with University of Central Florida College of Engineering students, “CIMS” or the Cloud Impact Mapping System, keeps watch for clouds moving toward solar fields, forecasts how soon they’ll arrive and, once they do, their impact on solar production. This technology shows promise in helping OUC anticipate drop-offs in solar output and filling in the gaps with other generation assets.

In August 2018, OUC completed the addition of a new solar test site at its Pershing Operations Center. This test site allows OUC to study and test a variety of solar panels and tilt angles. OUC also collects weather data from the site to compare with the solar production data. These studies will allow OUC to determine how to make future solar installations more efficient. The peak capacity for this test array is approximately 24 kWac depending on the number of solar panels being tested at any given time. All of the electricity produced by the array is supplied back to the grid.

In February 2017, OUC installed an innovative floating solar array on a water retention pond at its Gardenia Operations Center. The 31.5 kWdc pilot project, which has since been increased to 64 kWdc, is the first in Florida to send power directly to the grid. Comprised of dozens of PV panels mounted on floats, it produces enough energy to power five homes. This design appeals to developers who want to invest in solar but do not want to cut down trees or use valuable land resources. Also, OUC is evaluating performance gains in energy production as a result of the increased reflectance and cooling effect of the water. More than 9,000 potential sites within Orange and Osceola counties have been identified where floating solar may be a viable option. In December 2020, OUC, joined by the City and the Greater Orlando Aviation Authority, dedicated a 124 kWdc floating solar array that was installed in a pond at Orlando International Airport. Shaped like the airport’s “O” logo, the array is highly visible and produces enough power for 14 homes. OUC is expecting to complete installing a 2 MW floating array on a Florida Department of Transportation (“FDOT”) pond in 2025. Plans are also in place to develop a roadmap for a larger deployment of floating solar throughout OUC’s territory.

In 2015, OUC signed a 20-year PPA for 8.9 MWac of solar energy from a second solar farm at the Stanton Energy Center. Brought online in 2017, the Kenneth P. Ksionek Community Solar Farm provides enough electricity to power 2,100 homes. At the time the Kenneth P. Ksionek Community Solar Farm was constructed, only one other utility in the nation had placed panels over a coal ash byproduct landfill at a power plant.

Examples of OUC's solar initiatives prior to 2015 include:

- In 2008, Orlando was designated a "Solar American City" by the U.S. Department of Energy ("DOE"). The ongoing partnership between OUC, the City and Orange County received \$450,000 in funding and technical expertise to help develop solar projects in OUC's service area that can be replicated across the country.
- To further facilitate development of solar energy, OUC supported Orange County in its efforts to obtain a \$2.5 million grant from the Florida Department of Environmental Protection to install a 1 MWac solar array on the Orange County Convention Center. The project "went live" in May 2009 and is currently producing clean, green power.
- In 2009, OUC and clean energy company Petra Solar teamed up to launch the first utility pole-mounted solar PV system in Florida. Ten of Petra Solar's SunWave™ intelligent PV solar systems have been installed on OUC utility poles along Curry Ford Road. Together the panels can generate up to 2 kWac. In addition, the systems enhance electric distribution grid reliability through a host of capabilities such as voltage and frequency monitoring and reactive power compensation.
- In 2010, OUC invested \$100,000 in an educational partnership with the Orlando Science Center to build a 31 kWac PV array atop the Center's observatory. The system provides about 42,660 kilowatt-hours ("kWh") of electricity per year, or enough power to serve about four homes.
- In 2011, OUC added solar to its fleet of natural gas, coal, and landfill gas generation already on-site at Stanton Energy Center. The Stanton Solar Farm, constructed in partnership with Duke Energy, produces about 5.1 MWac and was the first solar farm in Orange County. OUC purchases 100 percent of the output of this installation for 20 years.
- In 2013, OUC built the first Community Solar Farm in Central Florida. This innovative project allowed customers to "buy a piece of the sun" and receive the benefits of solar without having to install it on their own buildings. The 400 kWac system sold out in six days and had a total of 39 customers sign up. The American Public Power Association ("APPA") awarded OUC the 2015 Energy Innovator award for its groundbreaking Community Solar Farm program.

2.4.2 Landfill Gas

Methane or landfill gas is created by the decomposition of wet organic waste under anaerobic, or oxygenless, conditions in a landfill. This gas is considered a renewable energy source because the anaerobic digestion process continues as waste materials are constantly added to the landfill.

In partnership with Orange County, OUC captures methane gas emissions from county landfill cells and pipes it to the Stanton Energy Center where it is co-fired with coal. In addition to helping to reduce greenhouse gas emissions, this 8 MW project has the potential to displace more than three percent of the coal burned at the Stanton Energy Center. It will be capable of producing in excess of 100,000 megawatt-hours ("MWh") of reduced-emissions power – offsetting about 44,000 tons of coal each year.

In December 2015, OUC began receiving energy from the CBI project (now LMS Energy) at the John Drury Landfill, located in Holopaw in Osceola County, for a minimum of 9 MW with an option to expand up to 25 MW of landfill gas energy. For the CBI project, OUC built a new 25 kV distribution line that is comprised of 15.5 miles of overhead and nearly five miles of underground line. The new feeder line will send clean, renewable energy from the landfill to an OUC electric substation in St. Cloud and is the longest distribution feeder on the grid. This feeder will play a large role in OUC's clean energy strategy.

OUC has also entered into long-term PPAs for landfill gas projects with WMI in Broward County (6 MW) and OPAL Fuels in Charlotte County and Collier County (4 MW).

2.4.3 Carbon Reduction

With more than 775 vehicles – ranging from plug-in hybrids to bucket trucks – OUC's fleet logs more than 2.7 million miles annually. OUC currently has seven hybrid bucket trucks. Bucket trucks are a promising application for hybrid technology since much of the vehicle's work is done when stationary. The hybrid diesel-electric system allows the main engine to be turned off while crews operate entirely off the battery, therefore reducing the production of greenhouse gases and reducing fuel consumption for idling. OUC reduces its carbon footprint by using alternative fuels, purchasing electric vehicles and recycling automotive products to help the environment. As part of an overall plan to reduce emissions in its fleet, OUC uses "B20" – a blend of 80 percent petroleum diesel and 20 percent biodiesel – a clean-burning alternative fuel made from new or used vegetable oils and animal fats, including recycled cooking grease. Compared to petroleum diesel, biodiesel produces lower emissions, so it is better for the environment. B20 has been integrated seamlessly into the fueling system without any changes to vehicles or fuel storage and distribution equipment. OUC uses biodiesel at the Pershing Fleet Center and the Gardenia site. OUC has installed two 10,000-gallon fuel tanks that store E85 fuel at its Pershing and Gardenia sites.

OUC's Fleet Division has incorporated a number of eco-conscious policies, including the use of earth-friendly products and special care taken to dispose contaminated fuels according to environmental standards. Tires, batteries, and oil filters are recycled through vendors, while antifreeze and motor oil are handled on-site. OUC recycles about 20,000 gallons of used oil each year. OUC also has a vehicle idling policy that requires the engine to be turned off after five minutes. Diesel engines use about one gallon of fuel per hour when idling, so this policy saves about \$4 per hour per vehicle.

Embracing fuel-efficient technology as a commitment to green initiatives, OUC has grown the commitment to include fourteen all-electric cars, two plug-in electric hybrids, and 26 hybrids in the fleet. Additionally, OUC has installed more than 300 public charging stations. Up to 22 high-speed chargers are under development at the new Robinson Mobility Recharge Hub in downtown Orlando. The charging facility will be the largest of its kind in Florida and will be able to power up all kinds of EVs. An OUC-led partnership that includes the City, Orange County and Power Electronics, the maker of EV charging equipment, received a \$500,000 grant from the Florida Department of Environmental Protection to build the station. The charging hub complements OUC's support for a law Gov. Ron DeSantis signed in 2020 calling for the creation of a statewide EV charging infrastructure. These efforts have helped push Orlando to one of the top 5 EV ready cities in the United States. OUC has provided an additional 40 level 2 charging stations to meet the needs of our growing fleet and employee needs. OUC also offers discounts to employees who choose to charge their vehicles at work, utilize the SunRail commuter train, and use the LYNX city bus system to get to and from work.

Funded in part by a \$1.9 million “Low or No Emission Grant” from the Federal Transit Administration, Orlando’s new e-bus pilot program puts innovation and clean energy exploration in motion. Partnering with LYNX and the City of Orlando, OUC invested in charging stations and batteries for the e-buses with the intention of gathering real world battery performance data. 14 LYNX battery-run electric buses are in service on LYNX’s LYMMO Grapefruit, Lime and North Quarter lines. In addition to enhancing Orlando’s charging infrastructure, the e-buses will help reduce emissions in some of our community’s economically disadvantaged neighborhoods.

As part of OUC’s commitment to alternative fuels and efficient transportation, three of the 32 EV charging stations at Reliable Plaza are offset by the sun. A 16-panel solar array provides a total of 2.8 kWac of power to charge the vehicles at stations in the garage. At night or on a cloudy day when the sun is not shining, the power is drawn from Reliable Plaza. When the sun is shining but no car is charging, the power is fed back into the building. OUC can access a special website to track real-time information and total system usage for its charging stations and the public charging in our territory. Users have a key fob for the charging station and supply their own power cord. Plug-in drivers can go to mychargepoint.net to locate available charging stations nationwide. Users register with ChargePoint to set up an account that links to their credit card. The power is billed through a third-party agreement with ChargePoint, which remits the electricity fees back to OUC each month.

In 2016, OUC enhanced its EV programs with the launch of a new Commercial EV Charging Station Program that encourages adoption of EVs by providing customers a turnkey option for charging stations at their facilities. The program offers two options: *Charge It*, where OUC owns and maintains the equipment with electric usage billed separately, and *Own It*, where OUC provides a turnkey solution and the commercial customer owns the equipment.

In 2018, OUC relaunched the Electrification program and established two key events that align with one of the program’s initiatives to help increase electric vehicle adoption in Central Florida. The first event that OUC hosted was an EV Ride & Drive designed to introduce customers to electric vehicles and build awareness about electric vehicle technology. The event was held at Camping World Stadium June 15-16. Over two days, 140 guests completed 304 test drives. The following year, OUC hosted an EV Ride & Drive event in partnership with Valencia College and Enterprise Rent-a-Car on April 13, 2019. OUC’s has hosted and sponsored subsequent EV Ride & Drives at various locations, including most recently at the SunTrax test track facility in Auburndale, which focused on transitioning to an EV fleet. Due to the pandemic, OUC cancelled the 2020 EV Ride & Drive and in its place created eight EV ride-along videos on OUC.com for customers to learn more about the benefits of electric vehicles and charging stations. The videos have received nearly 14,000 views.

The second event is the Florida Utility Electric Vehicle Roundtable. This is a semi-annual event was created to discuss EV-friendly policies, corridor charging planning and joint initiatives with all municipal and investor-owned utilities from across Florida. The first in the series of roundtables hosted by OUC was held on September 17, 2018, with more than 70 attendees. To date, OUC has hosted three additional roundtables, and discussions have included the current and future state of EVs in Florida, the Volkswagen settlement and two joint initiatives for data acquisition and a technology pilot.

In October 2020, OUC, in partnership with the City and Electrification Coalition, launched the Electrified Dealers Program. It's focused on expanding consumer adoption of EVs in Central Florida. Through direct engagement with dealers and by offering rebates, OUC seeks to improve the EV purchasing experience and reduce barriers to EV ownership. In addition to offering a rebate on a plug-in electric vehicle purchase or lease and providing a cost-effective for businesses to install EV charging stations, OUC, in 2020, committed to investing \$45 million in electrification programs aimed at putting more than 40,000 EVs on Central Florida's roads by 2030.

Additional examples of OUC's initiatives to reduce or capture carbon are as follows:

- OUC has participated in research projects with the Department of Energy to investigate Carbon Capture and Utilization via recycling carbon from flue gases.
- OUC is working on planting sections of the 3,280 acres at the Stanton Energy Center. The site uses less than 1,000 acres currently and by planting new trees, OUC intends to measure and track the recycling of CO₂ from the electric generating units to reduce its overall carbon footprint.
- OUC continues to improve on operations at the Stanton Energy Center, having an improved design on the Unit 2 HP/IP and LP steam turbine that provides additional output without increasing fuel consumption or emissions. OUC has installed the same improvement on the Unit 1 HP/IP steam turbine. Other recent improvements include updated control systems for both units, and adding natural gas co-firing capability to both units. This enables them to run at lower loads and increases operational flexibility. OUC also installed variable frequency drives on Unit 2 to improve efficiency while operating at low load levels.

2.4.4 Energy Efficiency and Sustainability

OUC's commitment to efficiency and sustainability is also demonstrated by Reliable Plaza, OUC's energy and water efficient center on West Anderson Street that opened in 2008 and replaced OUC's 40-year-old Administration Building. Reliable Plaza earned Gold Leadership in Energy and Environmental Design ("LEED") certification in 2009, officially cementing the 10-story administration and customer service center as the "Greenest Building in Downtown Orlando." The nonprofit U.S. Green Building Council awarded the Gold level certification after completing a review of the building's design and construction. Reliable Plaza also holds a Florida Water Star certification, a voluntary program for new and existing construction that encourages water efficiency in appliances, plumbing fixtures, irrigation systems and landscapes. Reliable Plaza utilizes a number of environmentally friendly features designed to use 28 percent less energy and 40 percent less water than a similarly sized facility.

To further demonstrate OUC's commitment to sustainability, many projects are active or are planned across its facilities. These projects focus on improving building efficiency through automation and control technology on its HVAC and lighting equipment in addition to smart irrigation and Xeriscape landscape designs. The latest example is at the Gardenia and Pershing campuses where they have undergone extensive LED lighting retrofits. Some buildings have received HVAC upgrades as well as new chiller investments.

In 2016, OUC built a living wall and rain harvest garden to showcase sustainable use of vertical space by replacing impervious surfaces while demonstrating water conservation examples along with Florida-friendly landscaping. The project underwent major improvements including irrigation changes that have improved water consumption. A new self-guided tour and marketing materials were developed with a

focus on water education. Improvements in the garden structure increased the yield of harvests tenfold from 2019. Edible plants from the garden are distributed to employees to raise awareness about the importance of buying and growing produce locally.

New construction projects will keep sustainability and energy efficiency at the forefront. This is exemplified by the construction of OUC's St. Cloud Operations & Maintenance Facility. This 24-acre facility is the first net-zero energy campus for a Florida utility, combining state-of-art technology with sustainability. The campus will use 50 percent less energy and 40 percent less water than conventional facilities of similar size. Its purpose is to support permanent fleet and logistic operations, as well as accommodate a future new substation based on projected load growth and will also serve as an emergency response center for OUC operations.

OUC's Commercial Indoor Lighting Program helps customers convert old, inefficient lighting to high-efficiency technology. OUC, Orlando Health, and the Orlando Catholic Diocese have entered into master agreements to upgrade indoor lighting at most if not all of their facilities over the next 3-5 years. More than 25,000 fixtures are estimated to be replaced, which will reduce demand by approximately 1,100 kW with energy savings of more than 10 million kilowatt hours, or about \$945,000 in cost savings annually. Since launching the program in 2002, more than 45 million kWh and 10.5 MW demand has been saved in places such as public schools, churches, theme parks and hospitals, resulting in annual energy cost savings of about \$16 million.

In 2013, OUC launched a program to replace 100-watt High Pressure Sodium ("HPS") streetlights with LED fixtures. The initiative was expanded in 2016 to include 250-watt and 400-watt HPS fixtures, and was completed in 2022 resulting in the replacement of more than 29,000 HPS streetlights with their LED equivalent. These lights save the City more than 14 gigawatt-hours of annual energy and, equally important, LED lighting improves safety by emitting whiter, cleaner light that provides better visibility for motorists, pedestrians and law enforcement.

In May 2021, a Request for Proposal was sent out to select a consultant that could complete a comprehensive analysis of customer facing conservation related energy efficiency programs and submit findings to retain, improve, or change offerings. This engagement primarily focused on residential and small commercial customer offerings. The expectation is that the work completed through this engagement will help expand OUC's portfolio of customer facing efficiency programs. The analysis completed and recommendations provided will consider OUC's customer base, service territory, and demographics. OUC is looking for programs and efficiency measures that result in environmental benefits such as a reduction in Greenhouse Gas Emissions, a reduce load measured in kilowatt and kilowatt hours, and cost-effective benefits for the customers we serve. Final recommendations by consultant Research America were presented and discussed with OUC in the fall of 2023. The next step of the project will be achieved in two phases as part of the 2024-2025 Net Zero CO₂-Energy Efficiency Enhancement - Phase 2 operational plan. The first phase will be enhancing the current program through improving educational content on how the program works, more customer testimonials, and a robust FAQ section on the revised website, to name a few. The second phase will explore and expand the program to reach landlords and renters. A later phase will be established in the coming years on the feasibility of a commercial expansion of the program.

2.4.5 OUC's Green Team

With the philosophy that changing an organization's culture requires both corporate and individual accountability, OUC has established the Green Team – a dedicated group of employee volunteers who work to implement practical, sustainable operations in their respective work areas. In 2018, the Green Team went through a relaunch with the recruitment of new and passionate employees. Employees received training in sustainability and Eco practices. Furthermore, the Green Team has hosted e-waste collection events, has worked to vastly improve OUC's waste processes and has participated in national events such as Earth Hour.

The Green Team continues to identify ways to increase employee education and engagement and supports Corporate Sustainability projects to improve energy and water efficiency in OUC buildings, reduce waste, lower emissions from operations, and create a healthier, happier environment for employees and customers.

With the Gold LEED-certified Reliable Plaza setting the standard, other OUC facilities have followed suit, implementing a number of environmental efforts, including:

- Retrofitting and upgrading light bulbs and ballasts
- Installing light sensors
- Turning up thermostats
- Cutting back on landscape and exterior building lighting
- Purchasing Energy Star-rated appliances when replacements are needed
- Using environmentally friendly cleaning products
- Upgrading HVAC systems
- Installing rain sensors on irrigation systems
- Cutting grass less frequently at water plants, substations and areas not highly visible to the public

Going forward, OUC is planning a number of new green initiatives. This includes the newly approved Corporate Sustainability Action Plan for Internal Operations. This is an approved operational plan for the 2024-2025 fiscal year that will begin implementation of key recommendations to help reduce OUC's carbon footprint associated with non-generational assets such as fuel consumption of fleet vehicles, waste diversion, and building energy and water consumption.

2.4.6 Sustainability Community Activities

In 2021, OUC conservation specialists and the Community Engagement team conducted presentations, provided face-to face consultations, scheduled audits, and disseminated information on conservation programs. Still in the midst of the pandemic in 2021, OUC participated in a mix of in-person and virtual community engagements. Below is a list of some of the events the OUC Sustainability Department participated in along with Community Engagement:

- Central Florida Earth Day
- St. Cloud Earth Day
- Orlando Youth Energy Academy
- HEAT Tradeshow

- Annual Peghorn Pig-Out (St. Cloud)
- 5th Annual Community Rainbow Run
- National Night Out
- City of Orlando District 1 Fall Festival
- Hispanic Chamber of Commerce Hola in the Park (St. Cloud)
- OUC Orlando Half Marathon
- Lake Nona Stem Night

In February 2021, OUC, along with the City and the Orlando Science Center, unveiled the Tiny Green Home as a mobile educational showcase of sustainable living. The 200-square-foot home is being used to raise awareness of the benefits of energy and water conservation, renewable energy, sustainability rebates, vehicle electrification, composting, growing food and sustainability programs offered by OUC, the City and the Science Center, the host site of the mobile exhibit. The City and OUC are able to transport the Tiny Green Home to events throughout the year. The micro-dwelling also includes a functioning roof-top solar array and a rain barrel to collect and conserve water, among other green features visitors can add to their own homes. The Tiny Green Home also offers an augmented reality experience. The project is funded equally by OUC and the city, along with support from [the Bloomberg Philanthropies American Cities Climate Challenge](#). In 2021, more than 13,000 visitors interacted with the tiny home between community events and Orlando Science Center tours. Since the Tiny home is mobile, OUC was able to take it on the road to four community events in 2022— Central Florida Earth Day, Hispanic Chamber Hola in the Park, OUC Orlando Half Marathon and Lake Nona Stem Night. OUC partnered with the Orlando Science Center again in 2024 to launch a new interactive exhibit that focuses on water and energy conservation. Through an interactive and gamified experience, guests learn about the critical role utilities play in our lives. Concepts such as IoT (Internet of Things), Smart Grid technology, Micro Grids and sustainable water management (“SWM”) are introduced while explaining OUC’s use of the Floridan aquifer as a water source. The exhibit will be on display through 2026, and then move to an OUC facility permanently.

2.4.7 Neighborhood Meetings

OUC is committed to engaging with our community to educate them on conservation measures and ways to save electricity, water and money. Our Stakeholder Relations Team meets with numerous community groups throughout the year to raise awareness of available programs, rebates, and ways to save for residents. Speaking engagements and outreach events in 2023 and 2024 encompassed attendees from the Hispanic Federation, Grassroots Impact, NAACP, Poder Latinx and several homeowner and neighborhood association groups – and we have a growing slate of additional opportunities planned for 2025.

As a foundation for these programs, in 2021, OUC hosted a three-part virtual meeting series targeted to neighborhood HOA’s (homeowner associations) and NOA’s (neighborhood associations) within our service territory. Attendees included board presidents and representatives, who had the opportunity to learn more about OUC’s products and services, as well as how to save energy, water, and money so they can pass the knowledge along to neighbors. These one-hour meetings allowed attendees to meet live with OUC experts who gave them a closer look at options like OUC’s programs including water efficiency rebates and conservation tips.

Additionally, to educate residents and gather feedback on the current Electric Integrated Resource Plan, OUC hosted a series of five neighborhood meetings in 2019 and 2020.

2.4.8 Home Utility Report Program

The Home Utility Report Program (“HUR”) is a free service offered to OUC customers designed to help them save energy, water, and money. The report compares a customer’s energy and water consumption to similar households, as well as provides personalized tips that show how much they can save by changing their behavior. Participants receive a free HUR monthly email report or bi-monthly printed report. To administer the HUR program, OUC works with a third-party company that helps utilities meet their efficiency goals through effective customer engagement. There is also an online portal available to customers to obtain additional information on how to save energy and water.

2.5 Transmission System

OUC’s existing transmission system in Orlando consists of 31 substations interconnected through approximately 340 miles of 230 kV and 115 kV lines. OUC is integrated into the Florida Reliability Coordinating Council (“FRCC”) regional transmission grid through multiple utilities. Additionally, OUC is responsible via an Interlocal Agreement for planning, operating and maintaining St. Cloud’s nine substations interconnected through approximately 74 miles of 230 kV and 69 kV transmission lines.

3.0 STRATEGIC CONSIDERATIONS

OUC incorporates a number of strategic considerations while planning for the electrical system. This section provides an overview of a number of these strategic considerations.

3.1 Strategic Business Units

OUC 's Electric and Water operations is organized into three strategic business units: Electric & Water Production ("EWP"), Transmission ("TRAN") and Electric and Water Distribution ("EWD") that report to a Chief Operating Officer.

3.1.1 Energy and Water Production Business Unit

The EWP business unit has structured its operations based on a competitive environment that assumes that even OUC's customers are not captive. EWP will only be profitable if it can produce electricity and water that is competitively priced in the open market. In line with this strategy, OUC is continually studying strategic options to improve or reposition its generating assets.

OUC's generating system has been designed over the years to take advantage of fuel diversity and the resultant system reliability and economic benefits. OUC's longstanding intent to achieve diversity in its fuel mix is evidenced by its participation in other generating facilities in the State of Florida. The first such endeavor occurred in 1977 when OUC secured a share of the Crystal River Unit 3 nuclear plant (which is now retired), followed by the acquisition of an ownership share in Lakeland Electric's McIntosh Unit 3 coal-fired unit (which is now retired) in 1982. In 1983, OUC acquired a share of the St. Lucie Unit 2 nuclear unit. OUC also modified the Stanton Energy Center coal units to allow the units to offset a portion of their coal usage with natural gas. Additional details of OUC's generating facilities are presented in Table 2-1 and Schedule 1 of Section 12.0 of this Ten-Year Site Plan.

OUC's fuel diversity is further enhanced by the renewable energy resources that are discussed in detail in Section 2.4 of this Ten-Year Site Plan.

In 2020 the Business Unit led the Electric Integrated Resource Plan that calls for a review of OUC's generation needs in light of the growing penetration of distributed energy resources, such as solar power, and a call to move to Net Zero Carbon by 2050. Florida-specific factors were taken into consideration because renewable resources are limited relative to other regions in the country and could impact fuel diversity. Currently, wind, hydroelectric and geothermal are not economically and/or technically viable in Florida – and biomass and landfill gas, while technically viable, are only available in small quantities. While solar is feasible, it poses intermittency challenges, and back up resources will be necessary to ensure that power is always available. OUC will continue to evaluate wind-by-wire generation and monitor emerging clean technologies such as hydrogen, offshore wind and small modular nuclear power plants.⁸

Table 3-1 summarizes OUC's existing (owned and purchased) capacity by fuel type, including renewable energy resources. The ability to generate up to approximately 70 MW while operating on natural gas in each of Stanton Units 1 and 2 further enhances the percentage of generating capacity fueled by natural gas.

⁸ OUC anticipates refreshing its Electric Integrated Resource Plan within the next 18 months.

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Table 3-1 Capacity (MW) Owned and Purchased by OUC by Fuel Type
(As of January 1, 2025)

PLANT NAME	WINTER CAPACITY						SUMMER CAPACITY					
	Coal	Nuclear	Gas/ Oil	PV	LFG	Total	Coal	Nuclear	Gas/ Oil	PV	LFG	Total
Stanton ⁽¹⁾⁽²⁾	562		1,032			1,594	562		1,006	9		1577
Indian River			213			213			197			197
St. Lucie		62				62		60				60
Osceola ⁽³⁾			471			471			471			471
Other (MW)					19	19				129	19	148
Total (MW)	562	62	1,629	0	19	2,359	562	60	1,674	138	19	2,453
Total (percent)	24%	3%	73%	0%	1%	100%	23%	2%	68%	6%	1%	100%
⁽¹⁾ Includes OUC's share of the landfill gas burned in Stanton Units 1 and 2. ⁽²⁾ Stanton Units 1 and 2 can each generate up to approximately 70 MW while operating on natural gas. ⁽³⁾ Reflects Osceola Generating Station Units 1 through 3. Osceola Generating Station Unit 2 is currently not able to provide power to OUC but expected to be able to provide power to OUC by the summer 2026 peak period. Osceola Generating Station Units 1 and 3 are currently not able to provide power to OUC but are anticipated to be able to provide power to OUC by the summer of 2025 peak period.												

3.1.2 Transmission Business Unit

The OUC Transmission Business Unit is responsible for the planning, engineering, construction, and maintenance of all substations and lines operating at 69kV or higher. To maintain reliable and economic service and proactively plan for the future, OUC plans and evaluates various upgrades to its transmission system.

3.1.3 Energy and Water Distribution Business Unit

OUC's EWD business unit focuses on providing OUC's customers with the safest and most reliable electric service possible.

OUC's leadership in providing reliable electric distribution service is demonstrated by its commitment to making initial investments in high quality material and equipment. Additionally, more than 60 percent of OUC's distribution system is underground, protecting it from trees and high winds. OUC's dependability is also attributable to its proactive maintenance programs to identify and correct potential problems, proactive replacement of old equipment, and a tree-trimming program that minimizes tree-related service disruptions.

3.2 Florida Municipal Power Pool

In 1988, OUC joined Lakeland Electric and FMPP's All-Requirements Project members to form the Florida Municipal Power Pool ("FMPP"). Later, KUA joined FMPP. Over time, FMPP's All-Requirements Project has added members as well. FMPP is an operating-type electric pool, which dispatches all the pool members' generating resources in the most economical manner to meet the total load requirements of the pool. The central dispatch provides savings to all parties via reduced commitment costs and lower overall fuel costs. OUC serves as the FMPP dispatcher and handles all accounting for the allocation of fuel expenses and savings. The term of the pool agreement is three years and automatically renews until terminated by the consent of all participants.

OUC's participation in FMPP provides significant savings from the joint commitment and dispatch of FMPP's units. Participation in FMPP also provides OUC with a ready market for any excess energy available from OUC's generating units.

3.3 Security of Power Supply

OUC currently maintains interchange agreements with other utilities in Florida to provide electrical energy during normal and emergency conditions. The reliability of the power supply is enhanced by metered interconnections with other Florida utilities, including 12 interconnections with Duke Energy Florida, four with KUA, two with Tampa Electric Company, two with FPL, one with Lakeland Electric, one with Reedy Creek Improvement District, and one with NextEra. Along with enhancing reliability, these interconnections also facilitate the marketing of electric energy by OUC to and from other electric utilities in Florida.

3.4 Environmental Performance⁹

As the quality of the environment is important to Florida, and especially important to the tourism-driven economy of Central Florida, OUC is committed to protecting human health and preserving the quality of life and the environment in Central Florida. To demonstrate this commitment, OUC has chosen to operate its generating units with emission levels below those required by permits and licenses by equipping its power plants with the best environmental protection systems available at the time of their construction and continuously enhancing these systems over time. Unit 2 is the first unit of its size and kind in the nation to use selective catalytic reduction (“SCR”) to remove nitrogen oxides (“NO_x”). Using SCR and low-NO_x burner technology, Stanton 2 successfully meets the stringent air quality requirements imposed upon it. Stanton A incorporates environmentally advanced technology and enables OUC to diversify its fuel mix while adding more flexibility to OUC’s portfolio of owned generation and purchased power. Stanton B further contributes to OUC’s environmentally responsible portfolio of generating resources.

This superior environmental performance not only preserves the environment, but also results in many economic benefits, which help offset the costs associated with the superior environmental performance. Additionally, OUC has installed natural gas igniters for both Stanton 1 and Stanton 2, eliminating the use of No. 6 fuel oil and reducing the amount of coal burned during operations when economical to do so.

Further demonstrating its environmental commitment to clean air, OUC has signed a contract to burn methane gas collected from the Orange County landfill adjacent to Stanton Energy Center. OUC also receives the energy generated from the burning of methane gas collected from the John Drury Landfill and the Monarch Hill Landfill. Methane gas, when released into the atmosphere, is considered 20 times more intense than carbon dioxide in terms of possible global warming effects. Stanton 1 and Stanton 2 both have the capability of burning methane.

OUC has also voluntarily implemented a product substitution program not only to protect workers’ health and safety but to minimize hazardous waste generation and to prevent environmental impacts. The Environmental Compliance and Safety Departments constantly review and replace products to eliminate the use of hazardous substances. To further prevent pollution and reduce waste generation, OUC also reuses and recycles many products.

3.4.1 Emphasis on Sustainability

OUC completed its first greenhouse gas inventory for the entire company in 2008 and updates the inventory regularly. This report helps OUC analyze how it impacts the environment and details operating emissions. The report is made available to customers, typically commercial ones that request it.

3.5 Community Engagement, Connecting with Our Customers, and Economic Development

3.5.1 Community Engagement

As Orlando’s hometown utility, OUC is committed to helping the community it serves. Individuals and organizations know they can rely on the utility when it matters most—through board involvement, support, employee volunteerism and more. OUC supports more than 400 nonprofit and business-based

⁹ Please refer to Section 2.4 of this Ten-Year Site Plan for a detailed discussion of OUC’s renewable generating technologies and other environmental initiatives.

organizations that focus on the four pillars of social impact, environmental stewardship, education and economic development and participates in nearly 150 events each year, while employees annually volunteer between 5,000 and 10,000 hours in the community. Many events incorporate sustainability messaging, encouraging the efficient use of energy and water.

From unique solar pavilions and sculptures at high visibility locations like Lake Lorna Doone Park, Exploria Stadium and St. Cloud's Lakefront Park, to solar mobile device charging stations at LYNX bus stations and H₂OUC Hydration Stations at parks and neighborhood centers, OUC's commitment to sustainability can be seen all around town.

OUC also supports a diverse group of business chambers within its service territory, including Ivanhoe Village, Lake Nona, Kissimmee, Hispanic, Disability and LGBT chambers. While actively engaging with the St. Cloud, Indian American, Prospera, Caribbean, Haitian, African-American, and Asian communities. OUC is also actively involved with gardening and economic organizations such as UF/IFAS Extension Orange County, Orlando Economic Partnership, Downtown Orlando Partnership, Central Florida Hotel and Lodging, and technical associations.

In 2021, OUC unveiled a 200-square-foot "home" on wheels that will serve as a model of sustainable living for anyone to experience. The Tiny Green Home, a partnership between OUC, the City of Orlando and Orlando Science Center ("OSC"), is an educational resource showcasing the benefits of energy and water conservation, renewable energy, sustainability rebates, vehicle electrification, composting, growing food and sustainability programs offered by OUC, the city and OSC. Stationed on OSC property in Loch Haven Park, the micro-dwelling also includes a functioning roof-top solar array and a rain barrel to collect and conserve water, among other green features visitors can add to their own homes. The Science Center is responsible for staffing, operating and maintaining the exhibit, which is accessible with admission. In 2024, more than 20,000 visitors interacted with the home between community events and OSC tours. OUC was able to take it on the road to community events in 2024— such as Central Florida Earth Day Lake Nona STEAM Night, and the Plant and Garden Festival – Orange County – UF/IFAS Extension.

3.5.1.1 Utility and Community Volunteerism

OUC launched Project CARE, its utility assistance fund, in 1994. The program, managed by Heart of Florida United Way 2-1-1, a local, nonprofit organization, provides rapid response to customers in need through case management. Since its inception, Project CARE has allocated \$8 million, assisting more than 29,000 households and thousands of families and individuals. For every \$1 donated by customers, OUC contributes \$2 to the program.

With the onset of the COVID-19 pandemic in 2020, OUC took immediate steps to help impacted customers. OUC suspended electric and water disconnections for nonpayment and waived late payment fees with a \$12.1 million customer-relief package that included \$7.5 million to lower electric fuel rates; a \$2.6 million contribution to Project CARE, in partnership with the City of Orlando; \$1.5 million for utility bill payment assistance to qualified small businesses; and \$500,000 for new OUC Power Pass customers. Payment plans and deferred payment arrangements were offered to customers for up to 12 months depending on qualifying criteria. By the end of 2020, more than 6,500 customers accessed Project CARE

funds while more than 1,800 small businesses took advantage of the OUC relief program targeting them. Meanwhile, OUC connected more than 2,800 customers to the federal government's Low-Income Home Energy Assistance Program ("LIHEAP") and helped more than 40,000 set up payment plans, amounting to millions of dollars in deferred revenues.

With prices rising for so many products and services, we know our customers are feeling the strain. That's why OUC is continuing to invest in OUC's utility assistance program—Project Care. Below shows the assistance provided in the last three fiscal years. In OUC's fiscal year 2024, OUC provided nearly 3800,000 in utility assistance to help more than 1,000 households with a plan to increase funding for fiscal year 2026.

In FY 2022: October 1, 2021 – September 30, 2022

- Total Assistance Amount: \$445,239
- Households Assisted: 1,372
- Average Assistance Amount: \$324.52

In FY2023: October 1, 2022 – September 30, 2023

- Total Assistance Amount: \$799,864
- Households Assisted: 2,694
- Average Assistance Amount: \$296.91

In FY2024: October 1, 2023 – September 30, 2024

- Total Assistance Amount: \$299,462
- Households Assisted: 1,015
- Average Assistance Amount: \$295.04

Regarding volunteerism, OUC's Proud Volunteer program encourages and rewards employees for their volunteer work in the community. Employees volunteer over 6,000 hours every year and help support a variety of nonprofit organizations in the community including quarterly volunteer events specifically for employees with one of the four events focused on environmental clean-up.

The annual OUC Charity Golf Tournament has raised over \$1 million for more than 83 Central Florida non-profits since its inception in 1995. In 2024, OUC raised \$40,000 for 4 central Florida non-profit organizations in support of OUC's four pillar approach to community investment.

3.5.1.2 Water Color Project

Since 2006, OUC has hosted the Water Color Project, a conservation-themed art program that encourages students to highlight the importance of saving water through their artwork. While fourth- and fifth-grade students compete to have their artworks featured in OUC's Water Conservation Calendar, middle and high school students paint water-inspired themes on rain barrels. Their completed works are displayed in a traveling exhibit, judged and later sold in a silent auction, with the proceeds going back to the winning schools' art programs. More than 40,000 students from over 200 local schools have participated in this program. Launched in 2020, OUC now hosts an annual public auction of the rain barrels painted by the local middle and high school students who participated in our annual Water Color competition. Proceeds directly benefit the Orange County Public Schools Visual Arts Department.

With the success of the Water Color Project, OUC launched the program in St. Cloud and rebranded it as the Watts Savings Project with a focus on energy conservation. OUC kicked off this inaugural project in 2024 within its service area and 5 schools participated. More than 500 students participated in the calendar contest and 30 final entries were submitted, 6 from each school. OUC employees voted for the top 13, which are featured in the 2025 calendar. With such a successful launch, OUC will expand this program in the next school year to grow and include additional schools in its territory.

3.5.1.3 Project AWESOME

OUC and the Orlando Science Center deliver energy and water conservation workshops to every fifth grader in OUC's service territory via Project AWESOME (Alternative Water & Energy Supply; Observation, Methods & Education). The educational program promotes both water and energy conservation through a hands-on curriculum using content approved by OUC that meets Common Core Standards. As part of an electric and water conservation and alternative sources educational program, the projects include modeling the flow of electricity from coal and solar power sources through substations before being distributed to industrial and residential consumers and designing and creating a drip irrigation system for a city park. Project AWESOME, which launched in 2009, delivers two 90-minute classroom workshops (one per semester), as well as hands-on labs and pre- and post-classroom activities. Energy is covered as part of the earth science section that's taught in the fall semester while water is the focus of the spring semester's life science section. Due to COVID and schools turning to virtual learning in early 2020, Project AWESOME workshops shifted to online. In 2021, OSC shifted back into the classrooms but continues to offer a virtual option to all the teachers for convenience and accessibility. Since 2009, more than 136,000 students have gone through the curriculum.

3.5.1.4 Strategic Partnerships Promote Awareness

OUC partners with highly visible, professional sports teams in Central Florida to highlight OUC's commitment to sustainability, conservation, and impactful economic development efforts. As of 2025, some of these partnerships include: Orlando Magic, Orlando City Soccer Club, and United States Tennis Association ("USTA").

Our current partnership with the Orlando Magic focuses on promoting energy and water conservation through interactive activations at games, in-game LED banners and videos. In addition to our game-day activities, we also partner with the Magic to host B2B events designed to promote commercial conservation efforts. These events provide an opportunity to engage businesses customers and partners in energy and water efficiency practices, offering valuable insights and resources to help them reduce their environmental impact while also driving cost savings.

In the past, OUC played a significant role in the design phase of the Orlando Magic's LEED-certified home, the Kia Center (formerly the Amway Center), contributing to its energy and water efficiency features. We highlighted the facility's LEED certification and sustainability efforts through educational signage and digital media. Additionally, from 2019 to 2022, OUC supported the Orlando Magic's Community Assist Program—donating one tree for every assist made by a Magic player during the season. Now concluded, it was a key initiative that helped plant more than 5,000 trees in the Central Florida community. Today,

OUC continues to focus on its commitment to energy and water conservation in collaboration with the Orlando Magic.

Since 2015, OUC has been the official and exclusive electric and water utility partner for Orlando City Soccer Club and Orlando Pride. Within Inter&Co Stadium (formerly Exploria Stadium), OUC branded all water fountains and showcases the savings that can be achieved through sustainability initiatives. Both permanent and transitional signage highlights energy and water efficiency features incorporated into the facility. In November 2020, OUC unveiled “Gyration,” a soccer-ball shaped solar sculpture designed by UCF students. The sculpture generates 1,264 kWh of clean energy annually, achieving net-zero carbon output. In 2023, OUC also installed EV charging equipment at the stadium. Additionally, OUC serves as the presenting sponsor for the Club’s sustainability initiative, which is focused on maintaining a zero-waste facility.

OUC’s partnership with the USTA at the Home of American Tennis in Lake supports sustainability. OUC is exclusively designated as the “Official Sustainability & Utility Sponsor” and highlights energy, water, and emerging technology through initiatives such as EV charging stations, hydration stations, and solar arrays on the roofs of shade pavilions. The facility hosts more than 250 events and attracts approximately 400,000 unique visitors per year.

3.5.1.5 OUC Empowerment Zone

OUC has a multi-year commitment to revitalizing one of the most economically disadvantaged zip codes in its territory, 32805. The Empowerment Zone program encourages broad-based economic prosperity and community support, ensures improved access to OUC programs and improves the overall health and wellness of the community. In short: OUC’s Empowerment Zone seeks to build thriving communities by leveraging OUC’s resources and partnerships to enhance three pillars: educational opportunities, sustainable housing, and health and wellness. Examples include:

- Virtual Tutoring Programs with ELEVATE Orlando, which OUC supported by donating a total of 20 laptops to two middle schools. OUC employees participated in weekly sessions tutoring ten students.
- In 2019, OUC employees raised \$42,000 for New Image Youth Center (“NIYC”), as part OUC’s annual workplace giving campaign, OUCares. NIYC works with at-risk students in grades K-12 in the Parramore community and provides academic support, social development, health and wellness programs and crisis intervention services. In addition, OUC donated 25 laptops to the New Image Youth Center to support their education assistance programs.
- OUC created a pre-apprenticeship program to meet the goals of creating career opportunities vs. job opportunities; prioritizing diversity, equity and inclusion; and raising median incomes for the community. This approach is helping to combat unemployment; increase livable wages; eliminate financial burdens on students; and provide a measurable impact. To date, OUC has sponsored three pre-apprenticeship cohorts. All 11 members of the inaugural class, who graduated in October 2021, landed full-time jobs paying more than \$30,000 a year, plus benefits and paid apprenticeship training classes to help them with career advancement. Seven students graduated from the 2022-23 program, with participants attending classes at PKZ and West Oaks Academy. The 2024 program included 19 students.

- OUC is working with Career Source of Central Florida to provide opportunities for high school students to learn about careers in the utilities industry hosting site tours and providing speakers to assist in raising awareness of the utility industry as a potential employer.
- OUC partnered with the Central Florida Housing Trust - Parramore Asset Stabilization Fund on an affordable housing project. OUC's contribution to the initiative included improving the efficiency of 83 residential units, with such upgrades as attic insulation and weather stripping, duct work repair, irrigation improvements, LED lighting, Energy Star® windows, hybrid water heaters and energy efficient AC systems. Residents of these homes realized annual utility savings of approximately \$575 annually.
- OUC also is developing cost-saving programs and providing conservation education through neighborhood advisory councils. OUC partnered with LIFT Orlando, a local nonprofit, to help revitalize the City of Orlando's Lake Lorna Doone Park, which is in the Empowerment Zone. OUC's is sponsoring the recently built 4,800-square-foot OUC Solar Pavilion at Lake Lorna Doone Park and EV charging stations and hydration stations in the park. The pavilion will serve as a hub for community events and activities while providing 42kWac of renewable energy.
- With the goal of inspiring young and old residents to read books, OUC and community partners set up nine Little Free Libraries in the Parramore neighborhood since May of 2021. Painted by OUC volunteers, each Little Free Library resembles a miniature wooden house with a pitched roof and glass door that opens to two shelves of books, two dozen or so in all. To date more than 2,000 books have been distributed across the nine libraries.
- Recognizing that personal health and wellness are critical to community revitalization, OUC has undertaken a number of initiatives to improve health and wellness in the Parramore Empowerment Zone. Working with Shepherd's Hope, OUC sponsors the HEAL program – promoting healthy eating and an active lifestyle with focus on topics from obesity and mental health to cardiovascular risks and nutrition. Average attendance of 33 senior citizens and 27 high school students was observed in sessions held in 2022 and 2023. Activities including distribution of more than 3,600 pieces of educational material and 252 bags of fresh food, along with completion of 15 home energy audits, resulted from the HEAL program. Additionally, attendees were connected with Shepherd's Hope who offer free healthcare and condition management programs as part of their mission.

3.5.2 Connecting with Our Customers

From providing better online access to their consumption history to designing convenient and effective conservation programs, OUC arms customers with the information and tools they need to optimize the efficiency of their homes and businesses. This includes the community outreach previously discussed in this report as well as a mix of new technologies and programs designed to provide customers with the information, control and options they desire.

3.5.2.1 Self-Service Options

OUC's informational website, self-service portal and automated phone system are transacted with millions of times each year by many customers.

Customers are able to find tips, videos on ways to save, and frequently asked questions regarding their services. Through their myOUC online profile, they are able to pay their bills, make service requests, request payment extensions and more. The Usage Dashboard and OUC Power Pass program continue to

drive adoption of the website. The site is mobile friendly and accessible from a range of devices including tablets and smartphones.

3.5.2.2 Traditional Media and Digital Outreach

OUC utilizes a comprehensive, multi-channel approach to reach our customers through print, digital, television, radio, social, outdoor media and community partnerships. By diversifying and targeting media, OUC can effectively reach the right customer with the right message. Campaigns cover a range of topics, from safety to storm prep to sustainability. These campaigns reinforce OUC's commitment to showing customers how to reduce their energy and water use and ultimately their utility bills while promoting programs and initiatives important to the community.

Launched in February 2024, OUC's "Get Green" campaign successfully drove engagement and increased rebate redemptions through targeted and segmented messaging. By tailoring email content to specific customer segments, including water and energy usage patterns, and utilizing seasonal scheduling, the campaign resonated with a wide audience. The strategic use of data such as DMV information for EV rebates and detailed customer attributes like home age and income ensured the right messages reached the right people. This targeted approach resulted in a 9 percent increase in overall rebate redemptions, with 2,111 total redemptions, and significant energy and water savings.

The campaign leveraged multiple channels to maximize its reach, including Meta ads, Google Display Ads, OTT streaming ads, postcards, and organic social media posts. A dedicated landing page on OUC's website (ouc.com/getgreen) became a central hub for the campaign, driving significant traffic with 35,080 sessions and an active user base of 31,875. Additionally, email marketing remained a key focus, with monthly follow-ups and A/B testing ensuring optimal communication. The campaign's success is reflected not only in its rebate redemptions but also in its ability to generate long-term energy and water savings, proving to be a valuable tool in OUC's sustainability efforts.

3.5.2.3 Connections

Connections is a monthly newsletter sent to all OUC customers whether they receive a paper statement or e-bill. The newsletters are posted on www.OUC.com and feature OUC's programs, community events, sustainability initiatives, and energy- and water-saving tips.

3.5.2.4 OUC Blog

In 2019, OUC launched a blog called OUConnect (www.oucblog.com). On OUConnect, customers can learn ways to save energy, water and money and how OUC is creating innovative products and services to meet the ever-growing needs of Central Florida. Customers will also read articles about community initiatives, as well as profiles on employees making a difference both at work and in their hometowns.

3.5.2.5 OUConnect E Newsletter

In April 2019, OUC launched a monthly email newsletter to all residential and commercial customers with email addresses (170,000). This newsletter keeps customers informed and connected to OUC's programs, products, provides conservation tips and more.

3.5.2.6 Social Media

Instagram, Facebook, X (formerly Twitter), YouTube, and NextDoor allow OUC to update customers about the Commission's community involvement, as well as provide them with conservation tips, outage and

restoration updates, and other need-to-know, real-time information that may affect them. Social media platforms also serve as additional customer service outlets, allowing customers to notify OUC about issues needing quick resolution, and provide additional opportunities for the Commission to build interactive relationships with customers and potentially diffuse negative situations.

3.5.2.7 Digital Meters

OUC's entire service area was upgraded with nearly 370,000 digital electric and water meters. The digital meters are easier to read and provide detailed information about customers' daily energy and water use. Meters can be monitored remotely, which reduces costs and time while ensuring an accurate and timely reading for the customer. Remote monitoring also allows OUC to better predict and prevent outages and restore power faster. OUC created Florida's first meter farm consisting of 120 electric meters and four water meters at its Pershing facility. The farm provides information and shows OUC exactly how updates are installed to ensure the meters are working correctly.

3.5.2.8 OUC Power Pass Program

OUC Power Pass is a program that allows customers to pay-as-you-go or pay in advance for utility services allowing the option of avoiding deposits, late fees and a monthly bill. Statistics have shown that pay-before-consumption programs result in less electricity and water usage because customers are more aware of how much they are using. Customers can check on their electric bill or water usage every day using the OUC Power Pass portal or receive alerts via text, email and/or phone. More than 19,000 customers are enrolled in the program to date.

3.5.2.9 Usage Dashboard

Digital meter technology allows customers to monitor electric consumption on an hourly basis and water on a daily basis instead of waiting until the end of the month to receive their bills. The ability to track usage patterns and adjust lower energy bills was one of the items most frequently requested by OUC customers. To accommodate their needs, OUC released the OUC Usage Dashboard to most residential customers through their myOUC online profile. Because the new system also provides high-consumption alerts via email, changes in usage can be made immediately, and costs can be kept in check.

3.5.2.10 Online Rebate Application

OUC is continuing the use of software through the next few years and implemented a new software solution for rebate processing in 2022. OUC provides an online rebate application tool for customers to apply for rebates without the hassle of paperwork. It offers more convenience for customers and reduces transaction time. Customers are able to access the tool through their myOUC online profile.

3.5.2.11 Project Momentum & PowerShift

OUC upgraded its customer information system from PeopleSoft Enterprise Risk Management to Customer Care & Billing to improve the quality experience for all levels of customers. OUC undertook this major initiative to lay the foundation for future enhancements and new technologies. This complex endeavor considered other affected systems such as Outage Management, Meter Data Management, Enterprise 1, Geographic Information System, the Web, and Interactive Voice Response. Begun in January 2015 and fully implemented in July 2017, Project Momentum required 200-plus employees from 17 OUC departments and partner contractors to understand and work through hundreds of business processes and thousands of data points. Delivering an improved quality experience for customers is a primary business goal.

In 2019, OUC launched a project to offer Time of Use (“TOU”) rates – internally known as PowerShift – to explore the viability of extending a new rate structure as an option for customers. The pilot formally ended in 2023. During an exploratory phase, OUC gauged interest from each customer segment and ultimately accepted 700 customers to participate in the pilot. Beginning in April 2021, the 700 pilot customers were billed utilizing On-Peak (2 p.m.-8 p.m.) and Off-Peak rates, the latter being the lowest, offering customers the opportunity to save on their monthly bills and to also smooth OUC’s power demand curve. At the conclusion of the pilot, OUC offered participating customers the option to continue on the TOU rate. Of the initial 700 customers enrolled, 474 have chosen to remain in the program past the pilot phase. As part of the pilot, OUC created numerous marketing and communication materials to ensure customers are equipped with the tools and resources to be successful in the program. Feedback gathered via quarterly customer surveys helped shape the program messaging OUC is using data from these surveys, as well as other data points and metrics gathered during the pilot to determine the future of TOU rates.

3.5.2.12 Outage Alerts

OUC launched the first phase of its OUC Alerts program with Outage Alerts in December 2017. The system allows customers to receive information about service outages, including the cause and an estimated restoration time, via text, voice or email.

3.5.2.13 Billing Alerts

In January 2019, the second phase of OUC’s Alerts program expanded to include Billing Alerts. The new feature lets customers set an alert, via text, email or voice, to let them know when their new bill is ready to view and when payment is due. This alert, along with Outage Alerts, launched in 2017, are among new “two-way communication” initiatives OUC has introduced to provide customers. Future OUC Alerts program phases to consider include consumption notifications and marketing messages.

3.5.3 Economic Development

Orlando has undergone a radical transformation over the years to diversify its economy and attract high-wage positions in technology, medicine, life sciences, and modeling and simulation. With Orlando’s increasing emphasis on recruiting, retaining and expanding commercial customers, OUC has become a major player in the region’s economic development. Working in partnership with Enterprise Florida, the Orlando Economic Partnership, and city and county governments, the utility is attracting more companies to Orlando and St. Cloud and helping them grow into vital and valuable members of the business community.

To attract large businesses that enhance the vitality of the community, OUC offers two rates. For large power users who qualify, OUC is able to negotiate its already-affordable rates to fit their business needs. The Economic Development Rider (“EDR”) is available to new or expanding businesses representing select target industries. Companies must add a minimum of 500 kW demand of new electric load and must create at least 25 new jobs at or above the 150 percent median income level to qualify. The Commercial Industrial Service Rider (“CISR”) is available to companies that have minimum load of 2,000 kW or greater, served by a single meter. Companies must provide validation of a lower rate offering outside OUC’s service territory to qualify.

Details of these rates and other incentives are outlined at www.oucpowersgrowth.com – a website that assists site selectors and businesses seeking to locate and learn more about Orlando and OUC. The site includes property search functionality and is mobile friendly.

4.0 FORECAST OF PEAK DEMAND AND ENERGY CONSUMPTION

OUC prepares a set of sales, energy, and demand forecast models each year to support its budgeting and financial planning process as well as long-term planning requirements. In preparing the forecasts, OUC uses internal records, company knowledge of the service territory and customers, and economic projections. OUC draws on outside expertise as needed. S&P Global provides economic projection data. Itron provides the primary forecasting software, analysis of end-use equipment saturation and efficiencies, and technical expertise. In this forecast, the National Renewable Energy Laboratory was utilized to provide adoption curves used to project rooftop solar within OUC's service territory while the midpoint of multiple different industry electric vehicle curves was used to forecast electric vehicle sales.

4.1 Forecast Methodology

OUC has adopted a Statistically Adjusted Engineering ("SAE") modeling technique developed by Itron. This approach entails specifying end-use variables (xHeat for heating, xCool for cooling, and xOther for other use) and utilizing these variables in multi-regression models to forecast sales. SAE variables allow anticipated shifts in customer end-use consumption driven by the type, saturation and efficiency of heating and cooling equipment, and other end-use devices to be represented along with econometric drivers and the effects of photovoltaic systems ("PV") and electric vehicles ("EV") in the forecast models. Itron reviews OUC's application of these techniques and provides data on heating, cooling, and other end-use load trends. These techniques are used to develop the forecasts for both the OUC and St. Cloud service territories.

4.1.1 Residential

The residential sales forecast consists of both a customer forecast model and an average use per customer model. Monthly average usage models were estimated using actual data for the period 2011 to 2024. This provides 14 years of historical data and enough observations to estimate strong regression models. Once models showing the number of expected customers and the expected average use per customer are developed, the projected residential sales by year (y) and month (m) are calculated as the product of the customer and average usage forecasts:

$$Sales_{y,m} = Customers_{y,m} \times Average\ Usage_{y,m}$$

4.1.1.1 Residential Customer Forecast

Residential customers are forecast as a function of household growth for Orange County for the OUC service territory and Osceola County for the St. Cloud service territory. There is a strong correlation between historical changes in customer counts and historical changes in households. The multi-regression model for residential customers is represented as:

$$Customers_{y,m} = \beta_0 + \beta_1(Households_{y,m})$$

The coefficients (β) are outputs of the multi-regression models.

4.1.1.2 Average Use Forecast

The residential forecast models utilize multi-regression modeling made up of three major components:

1. Changes in the economy, such as median household income and household size.
2. End-use equipment index variables, which capture the long-term net effect of equipment saturation and equipment efficiency improvements.
3. Weather variables, which serve to allocate the seasonal impacts of weather throughout the year.

The SAE model framework begins by defining energy use for an average customer in year (y) and month (m) as the sum of energy used by heating equipment ($x_{Heat_{y,m}}$), cooling equipment ($x_{Cool_{y,m}}$), and other equipment ($x_{Other_{y,m}}$). The x_{Heat} , x_{Cool} and x_{Other} variables are defined as a product of an annual equipment index and a monthly usage multiplier. This model is represented as:

$$Average\ Usage_{y,m} = \beta_1(x_{Heat_{y,m}}) + \beta_2(x_{Cool_{y,m}}) + \beta_3(x_{Other_{y,m}})$$

Where:

$$x_{Heat_{y,m}} = Economics_{y,m} \times HeatingEquipment_{y,m} \times HDD_Index_{y,m}$$

$$x_{Cool_{y,m}} = Economics_{y,m} \times CoolingEquipment_{y,m} \times CDD_Index_{y,m}$$

$$x_{Other_{y,m}} = Economics_{y,m} \times OtherEquipment_{y,m}$$

A customer's monthly usage level is impacted by several economic factors, including household size and household income in real dollars.

$$Economics_{y,m} = \left(\frac{HH\ Size_{y,m}}{HH\ Size_{base\ y,m}} \right)^{0.605} \times \left(\frac{HH\ Income_{y,m}}{HH\ Income_{base\ y,m}} \right)^{0.12}$$

The annual equipment variables (HeatEquip, CoolEquip, OtherEquip) are defined as a weighted average across equipment types multiplied by equipment saturation levels normalized by operating efficiency levels.

$$HeatEquip_y = \sum_{tech} Weight \times \left(\frac{Saturation_y / Efficiency_y}{Saturation_{base\ y} / Efficiency_{base\ y}} \right)$$

$$CoolEquip_y = \sum_{tech} Weight \times \left(\frac{Saturation_y / Efficiency_y}{Saturation_{base\ y} / Efficiency_{base\ y}} \right)$$

$$OtherEquip_y = \sum_{tech} Weight \times \left(\frac{Saturation_y / Efficiency_y}{Saturation_{base\ y} / Efficiency_{base\ y}} \right)$$

The following degree day index variables serve to allocate the seasonal impacts of weather throughout the year. For historic periods, actual heating degree days ("HDD") and cooling degree days ("CDD") are used. Normal HDDs and CDDs are used for forecast periods.

$$HDD_Index_{y,m} = \frac{HDD_{y,m}}{Normal\ HDD_y}$$

$$CDD_Index_{y,m} = \frac{CDD_{y,m}}{Normal\ CDD_y}$$

4.1.2 Non-Residential

4.1.2.1 General Service Non-Demand ("GSND")

The General Service Non-Demand ("GSND") and General Service Demand Secondary ("GSD Secondary") classes are modeled as a combined General Service Secondary class ("GS Secondary") because the historic data indicates customer migration has occurred back and forth between the two classes. The result is a single model, which produces predicted values with a higher correlation than that of two separate models. The forecast is later split between GSND and GSD Secondary using the monthly relationships between the two classes in the most recent year of actual data.

The framework for the GS secondary class sales forecast is similar to the residential class sales forecast except modeled on a total sales basis instead of by average use. It also has three major components and utilizes the SAE model framework. The end-use equipment variables are based on commercial appliance and equipment saturation and efficiency projections. The economic driver in the model is Orlando Standard Metropolitan Statistical Area (“SMSA”) Gross Metro Product in real dollars. The third component is the weather variable, which is entirely composed of CDDs. HDDs are not used in the GS Secondary model because no statistically valid correlation between HDDs and sales could be identified. The xCool and xOther variables used in the GS secondary forecast use the same methodology as the residential forecast but with different economic assumptions.

The GS Secondary sales model is represented as:

$$Sales_{y,m} = \beta_1(xCool_{y,m}) + \beta_2(xOther_{y,m})$$

GS secondary customers are forecast as a function of population for Orange County for the OUC service territory and Osceola County for the St. Cloud service territory. There is a strong correlation between historical changes in customer counts and historical changes in the Orange County population. St. Cloud historical customers also correlate well with the Osceola County population.

The GS Secondary customer model is represented as:

$$Customers_{y,m} = \beta_0 + \beta_1(Population_{y,m})$$

4.1.2.2 General Service Demand (“GSD”)

Forecast sales to GSD Secondary customers were modeled as discussed above. In addition to the customers taking service at secondary voltage, OUC serves 23 customers (excluding 6 OUC water plants) at primary voltage. These primary customers are forecasted as a whole on a total sales basis similar to the GSD secondary forecast.

Sales from the various GSD models are totaled to complete the GSD forecast.

4.1.2.3 Streetlights

Private and public lighting consumption is forecast separately. Both classes are not impacted by the weather, and the SAE modeling approach does not apply. Therefore, simple exponential smoothing models are used to generate both forecasts. The forecast for private streetlights includes a linear trend to capture the historic organic growth that is expected to continue within the forecast period. The forecast for public streetlights does not include a linear trend as any growth in the number of lights has been offset by the replacement of traditional HPS and MH fixtures with LED fixtures.

4.1.2.4 OUC Use

OUC Use sales are those to OUC Water Plants, OUCooling Plants, and OUC facilities. The OUC Use models utilize CDDs, but not HDDs or the factors included in the “Other” SAE modeling variable.

4.1.3 Net Energy for Load (“NEL”) and Peak Demand Forecast

The individual OUC and St. Cloud net energy for load forecasts are generated based on the respective sales forecasts described above and the historic relationship between actual monthly sales and NEL. Peak demand forecasts are then developed for each system based on the forecast NEL and the historic relationship between NEL, peak demand and daily weather.

4.2 Base-Case Forecast Assumptions

Incorporated into the forecast regression models are sets of underlying economic, demographic, and weather assumptions.

4.2.1 Economics & Demographics

The economic and demographic assumptions are derived from forecasts for Orange County, Osceola County, and the Orlando SMSA provided by S&P Global.

4.2.1.1 Median Household Income

The residential sales forecast models use Median Household Income in real dollars, as shown in Table 4-1.

4.2.1.2 Gross Metro Product

The commercial average usage forecast models use Gross Metro Product in real dollars, as shown in Table 4-1.

4.2.1.3 Households and Population

The residential and commercial customer forecast models use households and population, respectively. The primary demographic drivers in the residential average usage forecast models are the number of households and the population (see Table 4-1). The population data is divided by the household data to determine household size used in the residential average usage forecast models.

Table 4-1 Economic & Demographic Projections

Year	Orlando SMSA Median Household Income ¹	Orlando SMSA Gross Metro Product (\$ Billions) ²	Orange County (Thousands)		Osceola County (Thousands)	
			Households	Population	Households	Population
2025	\$54,821	\$186.2	586.3	1,528.4	167.2	475.6
2030	\$56,835	\$211.0	620.5	1,607.5	191.5	543.6
2034	\$57,999	\$231.1	658.8	1,690.2	211.8	597.4
Average Annual Increase						
25 - 30	0.7%	2.5%	1.1%	1.0%	2.8%	2.7%
25 - 34	0.6%	2.4%	1.3%	1.1%	2.7%	2.6%
(1) 2009 dollars (2) 2017 dollars						

4.2.3 Weather

Weather is a key factor affecting electricity consumption for indoor cooling and heating. Monthly CDDs are used to capture electric cooling load requirements while HDDs are used to capture electric heating load requirements. CDDs and HDDs are calculated from the daily average temperatures as reported by the National Weather Service for the weather station at the Orlando International Airport. CDDs are calculated using a 65°F base temperature as follows:

$$CDD_d = (Avg Temp_d - 65°F) \text{ when } Avg Temp_d \geq 65°F$$

The daily CDD values are then aggregated to yield monthly CDDs for each year as follows:

$$CDD_{y,m} = \sum CDD_{y,m,d}$$

Daily HDD values are calculated in a similar manner using a base temperature of 65°F as follows:

$$HDD_d = (65^\circ F - Avg Temp_d) \text{ when } Avg Temp_d \leq 65^\circ F$$

The daily HDD values are then aggregated to yield monthly HDDs for each year as follows:

$$HDD_{y,m} = \sum HDD_{y,m,d}$$

Due to historic weather trending warmer that escalation was continued to the forecast period in order to come up with “Normal” monthly weather with CDDs increasing and HDD decreasing annually over the forecast period.

4.3 Base-Case Load Forecast

A long-term annual base-case forecast was developed using the methodology and assumptions outlined above.

4.3.1 Customer and Sales Forecast Results

Total customers and retail sales for OUC and St. Cloud are expected to increase as shown in Table 4-2 through Table 4-5.

4.3.1.1 Residential Forecast

Increasing average usage per residential customer due to electric vehicle adoption is projected to be mitigated by increased appliance efficiency, increased customer conservation, increased penetration of rooftop solar, and declining household size, resulting in an increase in average usage per residential customer over the forecast period 2025 through 2034. Residential sales are projected to grow for OUC at an average annual rate of 3.3 percent and 4.0 percent in St. Cloud over this same period. The number of residential customers is projected to grow at an average annual rate of 1.1 percent for OUC and 2.9 percent for St. Cloud over this same period.

4.3.1.2 GSND Forecast

GSND is comprised of small commercial customers. GSND sales are projected to grow at an average annual rate of 1.3 percent and 2.1 percent for OUC and St. Cloud, respectively, between 2025 and 2034. The number of GSND customers is projected to grow at an average annual rate of 0.5 percent and 3.0 percent, respectively, for OUC and St. Cloud over this same period.

4.3.1.3 GSD Forecast

GSD is comprised of large commercial and industrial customers. Sales are projected to grow at an average annual rate of 1.8 percent and 2.1 percent for OUC and St. Cloud, respectively, between 2025 and 2034. The number of GSD customers is projected to grow at an average annual rate of 0.5 percent and 2.9 percent, respectively, for OUC and St. Cloud over this same period.

Table 4-2 OUC Long-Term Sales Forecast (GWh)

Year	Residential	GSND	GSD	Lighting	OUC Use	Total Retail
2025	2,249	442	3,519	59	157	6,426
2030	2,623	470	3,890	61	165	7,209
2034	3,006	498	4,116	62	166	7,848
Average Annual Increase						
25 - 30	3.1%	1.2%	2.0%	0.7%	1.0%	2.3%
25 - 34	3.3%	1.3%	1.8%	0.6%	0.6%	2.2%

Table 4-3 OUC Average Number of Customers Forecast

Year	Residential	GSND	GSD	Total Retail
2025	199,221	24,266	4,765	228,252
2030	208,810	25,035	4,915	238,760
2034	219,432	25,445	4,995	249,872
Average Annual Increase				
25 - 30	0.9%	0.6%	0.6%	0.9%
25 - 34	1.1%	0.5%	0.5%	1.0%

Table 4-4 St. Cloud Long-Term Sales Forecast (GWh)

Year	Residential	GSND	GSD	Lighting	Total Retail
2025	745	64	170	3	982
2030	909	71	189	3	1,172
2034	1,058	77	205	3	1,343
Average Annual Increase					
25 - 30	4.1%	2.1%	2.1%	0.0%	3.6%
25 - 34	4.0%	2.1%	2.1%	0.0%	3.5%

Table 4-5 St. Cloud Average Number of Customers Forecast

Year	Residential	GSND	GSD	Total Retail
2025	53,779	4,370	381	58,530
2030	62,252	5,108	445	67,805
2034	69,332	5,678	494	75,504
Average Annual Increase				
25 - 30	3.0%	3.2%	3.2%	3.0%
25 - 34	2.9%	3.0%	2.9%	2.9%

4.3.2 Forecast Hourly Peak Demand and NEL

Peak demand growth is driven by the aggregate retail load forecasts for OUC and St. Cloud. Seasonal hourly peaks and annual NEL are presented for OUC and St. Cloud in Tables 4-6 and 4-7, respectively. Table 4-8 represents the combined seasonal coincident hourly peak demand and NEL forecasts for OUC and St. Cloud.

Table 4-6 OUC Forecast Hourly Peak Demand (Summer and Winter) and NEL

Year	Summer (MW)	Winter (MW)	NEL (GWh)
2025	1,260	1,038	6,541
2030	1,399	1,199	7,338
2034	1,532	1,364	7,988
Average Annual Increase			
25 - 30	2.1%	2.9%	2.3%
25 - 34	2.2%	3.1%	2.2%

Table 4-7 St. Cloud Forecast Hourly Peak Demand (Summer and Winter) and NEL

Year	Summer (MW)	Winter (MW)	NEL (GWh)
2025	273	216	1,129
2030	322	281	1,348
2034	384	339	1,543
Average Annual Increase			
25 - 30	3.4%	5.4%	3.6%
25 - 34	3.9%	5.2%	3.5%

Table 4-8 System Forecast Coincident Hourly Peak Demand (Summer and Winter) and NEL (Total of OUC and St. Cloud)

Year	Summer (MW)	Winter (MW)	NEL (GWh)
2025	1,529	1,217	7,670
2030	1,717	1,479	8,687
2034	1,912	1,703	9,532
Average Annual Increase			
25 - 30	2.3%	4.0%	2.5%
25 - 34	2.5%	3.8%	2.4%

4.4 High and Low Load Scenarios

In addition to the base-case, two long-term forecast scenarios representing a high and low range around the forecast peak demand and NEL were constructed to test for sensitivity of uncertain economic conditions and customer growth. Weather conditions deviating from normal were not included in sensitivity testing due to non-growth-related impacts and an equal probability of affecting any given year either negatively or positively. The high and low load scenarios represent alternatives to the base-case forecast and are defined by 0.5 percent higher and 0.5 percent lower economic growth rates, respectively. Table 4-9 represents a summary of the high and low load scenarios.

Table 4-9 High and Low Scenario System Forecast Peak Demand (Summer and Winter) and NEL (Total of OUC and St. Cloud)

High Load Scenario			
Year	Summer	Winter	NEL
	(MW)	(MW)	(GWh)
2025	1,532	1,217	7,680
2030	1,743	1,498	8,815
2034	1,962	1,739	9,775
Average Annual Increase			
25 - 30	2.6%	4.2%	2.8%
25 - 34	2.8%	4.0%	2.7%
Low Load Scenario			
Year	Summer	Winter	NEL
	(MW)	(MW)	(GWh)
2025	1,527	1,216	7,659
2030	1,692	1,461	8,561
2034	1,865	1,668	9,299
Average Annual Increase			
25 - 30	2.1%	3.7%	2.3%
25 - 34	2.2%	3.6%	2.2%

5.0 DEMAND-SIDE MANAGEMENT

Sections 366.80 through 366.83, and 403.519, Florida Statutes (“F.S.”), are known collectively as the Florida Energy Efficiency and Conservation Act (“FEECA”). Section 366.82(2), F.S., requires the Florida Public Service Commission (“PSC”) to adopt appropriate goals designed to increase the conservation of expensive resources, such as petroleum fuels, to reduce and control the growth rates of electric consumption and weather-sensitive peak demand. Pursuant to Section 366.82(6), F.S., the PSC must review the conservation goals of each utility subject to FEECA at least every five years. The six utilities subject to FEECA are Florida Power & Light Company (“FPL”), Duke Energy Florida, LLC. (“DEF”), Tampa Electric Company (“TECO”), Florida Public Utilities Company (“FPUC”), OUC, and JEA (referred to collectively as the “FEECA utilities”).

OUC’s residential and commercial/industrial numeric conservation goals for the 2021 through 2024 period were established by the PSC pursuant to Order No. PSC-2019-0509-FOF-EG. These PSC-established annual goals are presented in Tables 5-1, 5-2 and 5-3.

OUC committed to a 1 percent goal of energy efficiency as a percent of retail sales. This includes measures beyond those measured through FEECA. Because OUC must operationally plan to generate enough energy to meet demand at all times, and because OUC can incentivize, but not control, actual adoption, this forecast is being used for purposes of this 10-Year Site Plan.

Table 5-1 Residential DSM Goals Approved by the PSC

Calendar Year	Summer (MW)	Winter (MW)	Annual (GWh)
2020	0.21	0.21	0.77
2021	0.21	0.22	0.80
2022	0.19	0.20	0.72
2023	0.19	0.18	0.66
2024	0.16	0.16	0.57
Total	0.96	0.97	3.52

Table 5-2 Commercial/Industrial DSM Goals Approved by the PSC

Calendar Year	Summer (MW)	Winter (MW)	Annual (GWh)
2020	0.39	0.70	0.85
2021	0.40	0.78	0.86
2022	0.37	0.78	0.85
2023	0.39	0.74	0.82
2024	0.36	0.70	0.80
Total	1.91	3.70	4.18

Table 5-3 Total Residential and Commercial/Industrial DSM Goals Approved by the PSC

Calendar Year	Summer (MW)	Winter (MW)	Annual (GWh)
2020	0.60	0.91	1.62
2021	0.61	1.00	1.66
2022	0.56	0.98	1.56
2023	0.57	0.92	1.48
2024	0.52	0.86	1.37
Total	2.86	4.67	7.69

OUC has been increasingly emphasizing its DSM and conservation programs to increase customer awareness of these programs. Not only do these programs help customers save money by saving energy, the programs help OUC reduce emissions of greenhouse gases and better position OUC to meet possible future greenhouse gas regulations. It should be noted that government mandates have required manufacturers to increase their energy efficiency performance, thereby decreasing the incremental amount of energy savings achievable, and the efficiency of new generation has increased. These appliances and generating unit efficiency improvements have muted, to some degree, the effectiveness of DSM and conservation programs, as overall efficiency increases of available options in the marketplace partially offset the benefit of such programs.

The conservation programs included in OUC's 2020 DSM Plan (approved by the PSC on June 5, 2020) and currently offered to OUC's customers consist of the following:

- Residential Home Energy Survey Program – Walk-Through
- Residential Duct Repair Rebates Program
- Residential Ceiling Insulation Rebates Program
- Residential High-Performance Windows Rebate Program
- Residential Efficient Electric Heat Pump Rebates Program
- Residential New Home Rebates Program
- Residential Heat Pump Water Heater Rebates Program
- Residential Efficiency Delivered Program
- Commercial Energy Audit Program
- Commercial Efficient Electric Heat Pump Rebates Program
- Commercial Duct Repair Rebates Program
- Commercial Ceiling Insulation Rebates Program
- Commercial Cool/Reflective Roof Rebates Program
- Commercial Indoor Lighting Billed Solution Program
- Commercial Indoor Lighting Rebates Program
- Commercial Custom Incentives Program

The remainder of this section describes each of the DSM and conservation programs outlined above (Sections 5.1 and 5.2), as well as OUC's other DSM, conservation, and energy efficiency programs and activities not included in OUC's 2020 DSM Plan (Section 5.3). Incentives and rebate amounts included in the program descriptions are current as of the time this report was prepared. In addition to offering these programs, OUC continues to play an active role in promoting conservation through community relations as discussed in Section 2.4 and Section 3.6 of this Ten-Year Site Plan.

5.1 *Energy Survey Programs*

5.1.1 *Residential Home Energy Survey Program*

OUC has been offering home energy surveys dating back to the 1980's. The home energy walk-through surveys were designed to provide residential customers with recommended energy efficiency measures and practices customers can implement and to encourage participation in various OUC rebate programs. The home energy surveys are available to both single family and multi-family residential customers.

The Residential Energy Walk-Through Survey includes a review of the customer electric consumption history as well as a walk-through review of the attic; heating, ventilation, and air conditioning ("HVAC") system; air duct and air returns; window caulking; weather stripping around doors; faucets and toilets; and lawn sprinkler systems. OUC provides participating customers specific tips on conserving electricity and water as well as details on customer rebate programs. OUC Conservation Specialists are using this walk-through type audit as a means of motivating OUC customers to participate in other conservation programs and qualify for appropriate rebates.

One of the primary benefits of the Residential Energy Survey Program is the education it provides to customers about energy conservation measures and ways their behavior can directly affect their energy use. Customers participating in the Energy Survey Program are informed about their historical energy usage and conservation measures that they can implement. Customers receive a report that includes estimates of ranges of costs, savings, and payback periods for recommended measures. If changes are implemented, customers will benefit from the increased efficiency in their homes resulting in decreased electric and water bills.

The Home Energy Survey rates how efficient a customer's home energy use is and where one can make improvements to lower utility bills. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

5.1.2 *Commercial Energy Audit Program*

The commercial/industrial Energy Audit Program has been offered for several years and is focused on increasing the energy efficiency of commercial buildings and includes a free survey comprised of a physical walk-through inspection of the commercial facility performed by trained and experienced energy experts. The survey includes a review of historical energy usage, as well as a walkthrough to examine heating and air conditioning systems including duct work, refrigeration equipment, lighting, water heating, motors, process equipment, and the thermal characteristics of the building including insulation. Following the inspection, the customer receives a written report (available in both English and Spanish) detailing cost-effective recommendations to make the facility more energy and water efficient. Participating customers are encouraged to enroll in other OUC commercial programs that result in conservation, which decreases their electric and water bills.

OUC customers can participate by calling the OUC Customer Service Call Center and requesting an appointment for an audit. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

5.2 *Rebate Programs*

The following outlines the various rebate programs OUC offers to its customers. Customers can participate by submitting a rebate application online at <http://www.OUC.com/rebates> or via email, mail, in-person, or facsimile. Proofs of purchase and/or receipts are required to be attached to the application and repairs can be performed by a contractor or the customer. Participation is tracked based on the number of rebates processed. Typically, these rebates are credited on the customer's bill, or if requested a check can be processed and sent directly to the property owner who may have paid for the improvement. In 2024, OUC targeted customers with rebate program information based on a customer's propensity to participate in the rebate programs as determined by reviewing previous years' participation data. In addition, OUC varied messaging to target customers based on customer segmentation, which both reduced the cost to administer the program and increased the rate of customer participation.

5.2.1 *Residential Duct Repair Rebates Program*

The residential Duct Repair Rebates Program originated in 2000 and is designed to encourage customers to repair leaking ducts on existing systems. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or any other Underwriters Laboratory ("UL") approved duct tape. Participating customers receive a rebate for 100 percent of the cost of duct repairs on their homes, up to \$100.

5.2.2 *Residential Ceiling Insulation Rebates Program*

The attic is the easiest place to add insulation and lower total energy costs throughout the seasons. The residential Ceiling Insulation Rebates program has been offered for several years and is designed to encourage customers to upgrade their attic insulation. Participating customers receive \$0.10 per square foot for upgrading their attic insulation to R-30 or greater. The program applies to conditioned areas only.

5.2.3 *Residential High-Performance Window Rebates Program*

Energy-efficient windows can help minimize heating, cooling, and lighting costs. The residential High Performance Windows Rebates program has been offered for several years and is designed to encourage customers to install windows that improve energy efficiency in their homes. Customers will receive a \$1.50 rebate per square foot for the purchase of ENERGY STAR® rated energy efficient windows.

5.2.4 *Residential Efficient Electric Heat Pump Rebates Program*

The residential Efficient Electric Heat Pump Rebates program offers rebates to qualifying customers in existing homes who install heat pumps having a Seasonal Energy Efficiency Ratio ("SEER") of 16.0 or higher or a Seasonal Energy Efficiency Ratio 2 ("SEER2") 15.2 or higher. Customers obtain a rebate in the form of a credit on their bill of up to \$1,150, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following table illustrates the incentives available depending on the size and efficiency of the heat pump installed.

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	SEER2 Upgraded To:								
	SEER 2	15.2-15.99	16.0-16.99	17.0-17.99	18.0-18.99	19.0-19.99	20.0-20.99	21.0-21.99	22.0-22.99
	SEER	16.0-16.99	17.0-17.99	18.0-18.99	19.0-19.99	20.0-20.99	21.0-21.99	22.0-22.99	23.0-23.99
AC Size (Tons)	1	-	-	\$55	\$85	\$115	\$140	\$165	\$185
	1.5	-	\$55	\$110	\$155	\$200	\$240	\$275	\$305
	2	-	\$90	\$165	\$230	\$285	\$340	\$385	\$425
	2.5	\$45	\$130	\$220	\$300	\$370	\$435	\$495	\$550
	3	\$65	\$165	\$275	\$370	\$455	\$535	\$605	\$670
	3.5	\$90	\$200	\$330	\$440	\$540	\$635	\$715	\$790
	4	\$110	\$235	\$385	\$510	\$625	\$730	\$825	\$910
	5	\$150	\$310	\$490	\$655	\$795	\$925	\$1,045	\$1,150
Notes:									
1. SEER 2 is the main rating that determines the rebate value.									
2. If only SEER is listed on AHRI, use corresponding SEER column above.									

5.2.5 Residential New Home Rebates Program

What was previously named the Residential Gold Ring Home Program has been transformed into a more flexible “a la carte” program offering a variety of choices for builders or home buyers and has been renamed the New Home Rebates program. This transformation was based on feedback OUC received from the residential building community when seeking to increase the level of participation in OUC’s program. The table below reflects an example of the incentives available.

Rebate	Rate of Rebate	Square Footage	Total
Heat Pump	Up to \$1,150	N/A	\$1,150
Energy Star® Heat Pump Water Heater	\$500	N/A	\$500
Solar Water Heater	\$900	N/A	\$900

5.2.6 Residential Heat Pump Water Heater Rebates Program

Commonly referred to as hybrid electric heat pump water heaters, these water heaters with a coefficient of performance (“COP”) of greater than 2.0 can cut water heating electric use and costs by more than half. OUC’s Heat Pump Water Heater Rebates program provides rebates for the heat pumps for qualifying installations. The contractor and/or retailer’s invoice is required to receive this rebate and must provide the system model number. If the receipt does not include the model number, a copy of the retailer’s item description of product installed is submitted and will be matched to the proof of purchase. OUC’s rebate is \$500.

5.2.7 Residential Efficiency Delivered Program

The program once referred to as the home energy fix-up program was revamped and expanded to allow for any OUC customer (energy, water, or both energy and water) to participate and subsequently renamed the Efficiency Delivered program. The program is available to residential customers (single family homes)

and provides up to \$2,500 of energy and water efficiency upgrades based on the verified needs of the customer's home. A Conservation Specialist from OUC performs a survey at the home and determines which home improvements have the potential of saving the customer the most money. The program is an income-based program which determines the basis for how much OUC will contribute toward the cost of improvements and consists of three household income tiers:

Household Income	OUC Contribution
Less than \$40,000	85% (not to exceed \$2,125)
\$40,001–\$60,000	50% (not to exceed \$1,250)
Greater than \$60,000	Rebates only

- \$40,000 or less OUC will contribute 85 percent of the total cost (not to exceed \$2,125),
- \$40,001 to \$60,000 OUC will contribute 50 percent of the total cost (not to exceed \$1,250),
- Greater than \$60,000 OUC will contribute the rebate incentives that apply toward the total cost.

Each customer must request and complete a free Residential Home Energy Survey. Ordinarily, Energy Survey recommendations require a customer to spend money replacing or adding energy conservation measures; however, customers may not have the discretionary income to implement these measures, especially those in the lower household income tiers. Under the Efficiency Delivered program, OUC will arrange for a licensed, approved contractor to perform the necessary repairs based on a negotiated and contracted rate. The customer is responsible for the remaining portion of the cost. The remainder can be paid to OUC at the time of service or via payments over an interest-free 24-month period on the participant's monthly electric bill.

To be eligible for this program, the customer's account must be in good credit standing. Low-income participants (i.e., customers with household income of up to \$60,000) are only required to have a current balance that is not delinquent. Some of the improvements covered under the Efficiency Delivered program are included in the table below:

Air conditioner tune-up	Thermostat replacement with Smart Thermostat	Minor plumbing repairs
Air filter replacement	Duct leak repairs	Toilet replacement
Attic insulation	Evaporator coil cleaning	Water flow restrictors
Window film insulation	Hot water pipe and air conditioner refrigerant line insulation	Blower Door Testing
Caulking and weatherstripping	Irrigation repairs	Attic stair insulation cover

The purpose of the Efficiency Delivered program is to reduce the energy and water costs especially for low-income households, with priority given to households with elderly persons, disabled persons and children. Through the Efficiency Delivered program, OUC helps lower the bills of customers who may have difficulty paying their bills, thereby decreasing the potential for costly service disconnect fees and late charges. OUC believes that the Efficiency Delivered program provides energy savings that may help customers afford other essential living expenses. For others, this program offers a one-stop-shop to

facilitate the implementation of a whole suite of conservation measures at reasonable costs and by pre-screened qualified contractors.

5.2.8 Commercial Efficient Electric Heat Pump Rebates Program

The commercial Efficient Electric Heat Pump Rebates program offers rebates to qualifying customers in existing buildings who install heat pumps having a Seasonal Energy Efficiency Ratio ("SEER") of 16.0 or higher or a Seasonal Energy Efficiency Ratio 2 ("SEER2") 15.2 or higher. Customers obtain a rebate in the form of a credit on their bill of up to \$1,150, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following tables illustrate the incentives available depending on the size and efficiency of the heat pump installed.

	SEER2 Upgraded To:								
	SEER 2	15.2-15.99	16.0-16.99	17.0-17.99	18.0-18.99	19.0-19.99	20.0-20.99	21.0-21.99	22.0-22.99
	SEER	16.0-16.99	17.0-17.99	18.0-18.99	19.0-19.99	20.0-20.99	21.0-21.99	22.0-22.99	23.0-23.99
AC Size (Tons)	1	-	-	\$55	\$85	\$115	\$140	\$165	\$185
	1.5	-	\$55	\$110	\$155	\$200	\$240	\$275	\$305
	2	-	\$90	\$165	\$230	\$285	\$340	\$385	\$425
	2.5	\$45	\$130	\$220	\$300	\$370	\$435	\$495	\$550
	3	\$65	\$165	\$275	\$370	\$455	\$535	\$605	\$670
	3.5	\$90	\$200	\$330	\$440	\$540	\$635	\$715	\$790
	4	\$110	\$235	\$385	\$510	\$625	\$730	\$825	\$910
	5	\$150	\$310	\$490	\$655	\$795	\$925	\$1,045	\$1,150
Notes:									
1. SEER 2 is the main rating that determines the rebate value.									
2. If only SEER is listed on AHRI, use corresponding SEER column above.									

5.2.9 Commercial Duct Repair Rebates Program

The commercial Duct Repair Rebates program started in 2009. OUC will rebate 100 percent of the cost, up to \$100. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or Underwriters Laboratory ("UL") approved duct tape.

5.2.10 Commercial Ceiling Insulation Rebates Program

The commercial Ceiling Insulation Rebates program started in 2009 and was designed to increase a building's resistance to heat loss and gain. Participating customers receive \$0.10 per square foot, for upgrading their attic insulation to R-30 or higher.

5.2.11 Commercial Cool/Reflective Roof Rebates Program

The commercial Cool/Reflective Roof Rebates program started in 2009 and was designed to reflect the sun's rays, lowering roof surface temperature while increasing the lifespan of the roof. OUC rebates customers at \$0.12 per square foot for ENERGY STAR® cool/reflective roofing that has an initial solar reflectance rating greater than or equal to 0.70.

5.2.12 Commercial Indoor Lighting Billed Solution Program

Converting old indoor lights to new lighting technologies is one of the most cost-effective improvements that a commercial customer can make. For some, the lack of capital can be a major barrier to making this cost-effective investment. Since 2002, OUC's commercial Indoor Lighting program has assisted commercial customers with these investments through OUC's commercial Indoor Lighting Billed Solution program. Through a competitive RFP process, OUC selected a qualified lighting contractor to work with customers to develop proposals. Customers enter into an agreement with OUC to pay back the cost of the project based on the expected savings through monthly charges applied to their bill. Basically, it is a cash-flow neutral billed solution where the monthly savings pay for the project's cost over the pay-back period or term. The term cannot exceed five years.

5.2.13 Commercial Indoor Lighting Rebates Program

Commercial customers that upgrade the efficiency of their indoor lighting may be eligible to receive a rebate of \$250/kW through the commercial Indoor Lighting Rebates program. Participation is open to facilities located within OUC's service area that receive electric service under an OUC commercial rate. Participants or customers may be any of the following:

- Individual customers who install more efficient lighting in their own facilities.
- National or local companies that install more efficient lighting.
- Local contractors, design/build firms, architectural and engineering firms, and commercial property developers working on behalf of OUC commercial customers.

5.2.14 Commercial Custom Incentive Program

Through the commercial Custom Incentive program, commercial customers receive incentives based on the reduction in peak demand their projects achieve plus the first-year energy savings. Energy and demand saving incentives are paid for the maximum one-hour average demand reduction that occurs during the Summer Demand period defined as weekdays, between 1 P.M. to 6 P.M., from April through October. Pre- and post-inspections are required. Incentives and other program considerations are summarized below.

- \$550 per kW reduction incentive and/or energy reduction measures at \$0.032 per kWh will also be incentivized.
- \$250 per kW reduction incentive for all lighting measures.
- Incentives shall not exceed 50% of project cost.
- Incentives may be paid at 50% of project completion and the remainder at one year after project completion depending on performance results.
- All incentives are paid as a credit appearing on the customer's OUC statement.
- Simple return on investment must be greater than 2 years.
- Energy and demand conservation measure should have a useful life of at least 10 years.
- A maximum incentive of \$100,000 per customer annually.

5.3 OUC's Additional DSM/EE/Conservation Programs and Activities

In addition to the residential and commercial programs previously discussed, OUC continues to do more to reduce energy consumption through supply-side conservation initiatives, including:

- Conservation Voltage Reduction (“CVR”) - The Conservation Voltage Reduction (“CVR”) Project is made possible by OUC’s investment in its Advanced Meter Infrastructure (“AMI”) and more sophisticated distribution equipment. The availability of AMI customer load and voltage interval data provides an opportunity to optimize voltage control and thereby reduce energy consumption based on better awareness and monitoring of system conditions at customer service points. Benefits of CVR include conservation related reductions in customer energy usage and line losses (with associated reductions in fuel usage) and lower demands on generation resources. As of December 2024, OUC had 157 feeders of 190 feeders under CVR control resulting in savings of approximately 28,814,933 kWh annually.
- Power Plant Efficiency Improvements – OUC continues to make investments in improving the energy efficiency at its generation facilities. The energy reduction realized in 2024 due to these efficiency improvements totaled approximately 262,022,000 kWh.
- OUCooling Chilled Water District(s) Efficiency Improvements - OUCooling currently serves over 200 customers and provides more than 61,000 tons of cooling. OUCooling’s success has relied on the fact that OUCooling can deliver cooling more efficiently and less costly than what a customer would likely achieve on their own. The way OUCooling succeeds is by investing in higher efficiency chillers and equipment and optimizes its operations on a continuous basis. The enhanced efficient operation of OUCooling is estimated to have saved approximately 18,611,480 kWh in 2024.

6.0 FORECAST OF FACILITIES REQUIREMENTS

6.1 Existing Capacity Resources

6.1.1 Existing Generating Capacity

OUC's total owned generating capability for OUC and St. Cloud (as of date this Ten-Year Site Plan was prepared) is 1,904 MW in the winter and 1,867 MW in the summer. OUC's existing generating capability (described in more detail in Section 2.0) consists of the following:

- Joint ownership shares in the Stanton Energy Center Units 1, 2, and Stanton A
- Sole ownership of Stanton Energy Center Unit B (Stanton B)
- Joint ownership shares of the Indian River combustion turbine units
- Joint ownership share of St. Lucie Unit 2 Nuclear Generating Facility
- Sole ownership of the Osceola Generating Station

St. Cloud's entitlement to capacity from Stanton Unit 2 is included as generating capability in Tables 6-2 and 6-3, consistent with the Interlocal Agreement described in Section 2.0.

OUC is currently planning to place the Stanton Energy Center Unit 1 coal unit into extended cold shutdown by May 31, 2026.

6.1.2 Power Purchase Agreements

Corresponding to the construction of Stanton A, OUC entered into a PPA with SCF to purchase capacity from SCF's 65 percent ownership share of Stanton A. The original Stanton A PPA was for a term of 10 years and allowed OUC, KUA, and FMPPA to purchase all of SCF's 65 percent capacity share. The utilities originally had options to extend the PPA beyond its initial term. OUC's Stanton A PPA has been extended through December 2031, and OUC has purchased an additional 87 MW from Stanton A through December 31, 2028. As discussed in Section 2, NextEra Energy has purchased SCF's interest in Stanton A.

As discussed in Section 2, OUC added 108.5 MWac of solar capacity (nameplate) in June 2020 through PPAs with NextEra, and added 149 MWac of solar capacity (nameplate) in December 2024, also through PPAs with NextEra. OUC also has PPAs associated with purchases of energy generated from landfill gas, as discussed in Section 2.

In 2020, OUC completed a comprehensive Electric Integrated Resource Plan ("EIRP") to guide OUC through the next 30 years¹⁰. Based on the results of the EIRP, OUC anticipates entering into PPAs for approximately 1,491 MWac of solar (nameplate) and 800 MWac of energy storage between 2027 and 2034 as summarized in Table 6-1.

¹⁰ OUC anticipates refreshing its Electric Integrated Resource Plan within the next 18 months.

Table 6-1 **Anticipated Solar and Energy Storage PPAs**

Commercial Operation Date	Nameplate Capacity (MWac) w/o Energy Storage	Energy Storage (MW)
June 2027	149	100
June 2029	149	0
June 2030	149	0
June 2031	149	100
June 2032	149	150
June 2033	373	250
June 2034	373	200

6.1.3 *Power Sales Agreements*

OUC's power sales to Lake Worth, Winter Park, Mt. Dora, Chattahoochee, and Lakeland Electric are described in Section 2.3.

6.1.4 *Retirements and Modifications of Generating Facilities*

As mentioned before, OUC currently plans to place Stanton Energy Center Unit 1 into extended cold shutdown by the end of May 2026. One factor affecting potential unit modifications and/or retirements is the impact of pending future environmental regulations. OUC will continue to monitor future environmental regulations that may impact its operating fleet and decisions related to generating units, and develop appropriate corresponding compliance plans.

OUC anticipates converting Stanton Unit 2 to no longer operate on coal and instead be able to operate only on natural gas no later than 2027; OUC is in the process of determining the final timing of the natural gas conversion.

6.2 *Reserve Margin Requirements*

The FPSC has established a minimum planned reserve margin criterion of 15 percent in 25-6.035 (1) Florida Administrative Code for the purposes of sharing responsibility for grid reliability. The 15 percent minimum planned reserve margin criterion is generally consistent with practice throughout much of the industry. OUC has adopted the 15 percent minimum reserve margin requirement as its planning criterion.

6.3 *Future Resource Needs*

6.3.1 *Generator Capabilities and Requirements Forecast*

Tables 6-2 and 6-3 (presented at the end of this section) display the forecast reserve margins for the combined OUC and St. Cloud systems for the winter and summer seasons, respectively. OUC's capacity from renewable projects (discussed in Section 2.4) that is projected to be available at the time of peak demand is also reflected in Tables 6-2 and 6-3.

Table 6-2 and Table 6-3 indicate that OUC is projected to have adequate generating capacity to maintain the 15 percent reserve margin requirements through the period considered in this Ten-Year Site Plan (i.e. through 2034). As such, this Ten-Year Site Plan does not include any further new capacity additions, beyond the solar and energy storage purchases associated with OUC's EIRP and discussed throughout this Ten-Year Site Plan.

6.3.2 Transmission Capability and Requirements Forecast

OUC continuously monitors and upgrades the bulk power transmission system as necessary to provide reliable electric service to its customers. OUC's current transmission system planning criteria are summarized in its annual filing to the Federal Energy Regulatory Commission. Please see OUC's FERC Form 715 for additional information.

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Table 6-2 Projected Winter Reserve Requirements – Base-Case

Year	Retail and Wholesale Peak Demand (MW) ¹							Available Capacity (MW)					Reserves (MW)			Excess/ (Deficit) Capacity to Maintain 15% Reserve Margin (MW) ⁽⁷⁾
	OUC and STC	Mt. Dora	Chattahoochee	Lakeland	Lake Worth	Winter Park	Total	Installed ⁽²⁾⁽⁸⁾	SEC A PPA	Landfill Gas	Solar ⁽³⁾	Energy Storage ⁽³⁾	Total ⁽⁴⁾	Required ⁽⁵⁾	Available ⁽⁶⁾	
2024/25	1,259	19	7	50	18	17	1,370	1,344	436	19	0	0	1,799	189	430	241
2025/26	1,311	20	7	50	0	17	1,405	1,747	436	19	0	0	2,202	197	797	600
2026/27	1,351	20	7	0	0	0	1,378	1,593	436	19	0	0	2,048	203	670	468
2027/28	1,354	20	0	0	0	0	1,374	1,593	436	19	0	100	2,148	203	774	571
2028/29	1,428	20	0	0	0	0	1,448	1,593	349	19	0	100	2,061	214	614	400
2029/30	1,479	21	0	0	0	0	1,500	1,593	349	19	0	100	2,061	222	561	339
2030/31	1,498	0	0	0	0	0	1,498	1,593	349	19	0	100	2,061	225	563	338
2031/32	1,551	0	0	0	0	0	1,551	1,593	0	19	0	200	1,812	233	262	29
2032/33	1,652	0	0	0	0	0	1,652	1,593	0	19	0	350	1,962	248	310	62
2033/34	1,703	0	0	0	0	0	1,703	1,593	0	19	0	600	2,212	255	509	254

(1). Peak Demands shown are non-coincident.

(2). Includes existing net capability to serve OUC and St. Cloud.

(3). Capacity of Solar reflects capacity projected to be available at time of seasonal peak demand, which is assumed to be 0% for winter and 100% of nameplate capacity of energy storage.

(4). "Totals" may not add due to rounding.

(5). "Required Reserves" include 15 percent reserve margin on OUC and St. Cloud retail peak demand. OUC is not responsible for providing reserves to Bartow, Winter Park, Mt. Dora, Chattahoochee, or Lakeland. Wholesale sale shown to Lake Worth includes reserves.

(6). "Available Reserves" equals the difference between total available capacity and total peak demand.

(7). Calculated as the difference between "Available Reserves" and "Required Reserves."

(8). Reflects anticipated dates by which the Osceola Generating Station Units 1 through 3 will be capable of delivering power to OUC following completion of necessary maintenance and transmission system improvements (summer of 2026 for Unit 2; summer of 2025 for Units 1 and 3) and completion of maintenance activities on Indian River Unit D by the winter of 2025/26. Capacity from Stanton Energy Center Unit 1 no longer included beginning winter 2026/27 as OUC anticipates placing the unit in extended cold shutdown by May 31, 2026.

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Table 6-3 Projected Summer Reserve Requirements – Base-Case

Year	Retail and Wholesale Peak Demand (MW) ¹							Available Capacity (MW)				Reserves (MW)			Excess/ (Deficit) Capacity to Maintain 15% Reserve Margin (MW) ⁽⁷⁾	
	OUC and STC	Mt. Dora	Chattahoochee	Lakeland	Lake Worth	Winter Park	Total	Installed ⁽²⁾⁽⁸⁾	SEC A PPA	Landfill Gas	Solar ⁽³⁾	Energy Storage ⁽³⁾	Total ⁽⁴⁾	Required ⁽⁵⁾		Available ⁽⁶⁾
2025	1,533	26	9	100	48	17	1,733	1,627	429	19	138	0	2,213	230	480	250
2026	1,578	26	9	100	0	17	1,730	1,556	429	19	138	0	2,142	237	412	175
2027	1,611	26	9	0	0	0	1,646	1,556	429	19	212	100	2,316	242	671	429
2028	1,644	27	0	0	0	0	1,671	1,556	429	19	212	100	2,316	247	645	398
2029	1,680	27	0	0	0	0	1,707	1,556	342	19	287	100	2,304	252	597	345
2030	1,721	27	0	0	0	0	1,748	1,556	342	19	361	100	2,378	258	630	372
2031	1,770	0	0	0	0	0	1,770	1,556	342	19	436	200	2,553	266	783	517
2032	1,818	0	0	0	0	0	1,818	1,556	0	19	510	350	2,435	273	617	345
2033	1,868	0	0	0	0	0	1,868	1,556	0	19	697	600	2,872	280	1,003	723
2034	1,916	0	0	0	0	0	1,916	1,556	0	19	883	800	3,258	287	1,342	1,055

(1). Peak Demands shown are non-coincident.

(2). Includes existing net capability to serve OUC and St. Cloud.

(3). Capacity of Solar reflects capacity projected to be available at time of seasonal peak demand, which is assumed to be 50% of nameplate capacity for summer solar without energy storage and 100% of nameplate capacity of energy storage.

(4). "Totals" may not add due to rounding.

(5). "Required Reserves" include 15 percent reserve margin on OUC and St. Cloud retail peak demand. OUC is not responsible for providing reserves to Bartow, Winter Park, Mt. Dora, Chattahoochee, or Lakeland. Wholesale sale shown to Lake Worth includes reserves.

(6). "Available Reserves" equals the difference between total available capacity and total peak demand.

(7). Calculated as the difference between "Available Reserves" and "Required Reserves."

(8). Reflects anticipated dates by which the Osceola Generating Station Units 1 through 3 will be capable of delivering power to OUC following completion of necessary maintenance and transmission system improvements (summer of 2026 for Unit 2; summer of 2025 for Units 1 and 3) and completion of maintenance activities on Indian River Unit D by the winter of 2025/26. Capacity from Stanton Energy Center Unit 1 no longer included beginning summer 2026 as OUC anticipates placing the unit in extended cold shutdown by May 31, 2026.

7.0 SUPPLY-SIDE ALTERNATIVES

As discussed previously, consideration of OUC's current generating resources (including existing and planned PPAs) and OUC's current base-case load forecast indicates that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034 (the final year considered in this Ten-Year Site Plan). As such, no new capacity additions have been evaluated as part of this Ten-Year Site Plan, beyond the solar and energy storage purchases discussed throughout this Ten-Year Site Plan.

8.0 ECONOMIC EVALUATION CRITERIA AND METHODOLOGY

This section presents the economic evaluation criteria and methodology used for OUC's current planning processes.

8.1 Economic Parameters

The economic parameters are summarized below and are presented on an annual basis.

8.1.1 Inflation and Escalation Rates

The general inflation rate, construction cost escalation rate, fixed O&M escalation rate, and nonfuel variable O&M escalation rate are each assumed to be 2.0 percent.

8.1.2 Present Worth Discount Rate

The present worth discount rate is assumed to be 7.5 percent.

8.2 Fuel Price Forecasts

The natural gas and fuel oil price forecasts reflected in this Ten-Year Site Plan were developed based on a combination of the NYMEX forward curve and projections provided by PIRA Energy Group ("PIRA"). PIRA was founded in 1976 and is an international energy consulting firm specializing in global energy market analysis and intelligence. Among other services, PIRA offers consulting on a broad range of subjects in the international crude oil, petroleum products, natural gas, electricity, coal, biofuels, and emissions markets. PIRA's clients include international and national integrated oil and gas companies, independent producers, refiners, marketers, oil and gas pipelines, electric and gas utilities, industrials, trading companies, financial institutions, and government agencies.

The coal forecast reflected in this Ten-Year Site Plan was developed based on projections by Energy Ventures Analysis, Inc. ("EVA") for use by OUC as well as recent offers from suppliers of Illinois Basin coal. EVA is a consulting firm that engages in a variety of projects for private and public sector clients related to energy and environmental issues. In the energy area, much of EVA's work is related to analysis of the electric utility industry and fuel markets, particularly oil, natural gas, and coal. EVA's clients in these areas include coal, oil, and natural gas producers; electric utility and industrial energy consumers; and gas pipelines and railroads. EVA also works for a number of public agencies, such as state regulatory commissions, the US EPA, and the US DOE, as well as interveners in utility rate proceedings, such as consumer counsels and municipalities. Another group of clients include trade and industry associations, such as the Electric Power Research Institute, the Gas Research Institute, and the Center for Energy and Economic Development. EVA has provided testimony to numerous state public utility commissions, including the Florida Public Service Commission. Furthermore, the firm has filed testimony in a number of cases in both state and federal courts, as well as before the Federal Energy Regulatory Commission.

9.0 ANALYSIS AND RESULTS

As discussed previously, consideration of OUC's existing generating resources (including existing and planned PPAs) and OUC's current base-case load forecast indicates that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034 (the final year considered in this Ten-Year Site Plan).

For informational purposes, OUC utilized PCI GenTrader to obtain the annual production costs associated for various load, fuel, and other sensitivity cases. GenTrader is a computer-based chronological production costing model developed for use in power supply system planning. GenTrader simulates the hour-by-hour operation of a power supply system over a specified planning period. Required inputs include the performance characteristics of generating units, fuel costs, and the system hourly load profile for each year.

The cumulative present worth cost ("CPWC") calculations presented in this section account for annual system costs (i.e. fuel and energy, non-fuel variable O&M, and startup costs) for each year of the expansion planning period and discounts each back to 2025 at the present worth discount rate of 7.5 percent. These annual present worth costs are then summed over the 10-year forecast period to calculate the total CPWC of the expansion plan being considered.

9.1 CPWC Analyses

9.1.1 Base-Case Analysis

The base-case considers the base load forecast presented in Section 4 and the base fuel price forecasts. The CPWC associated with the base-case analysis is approximately \$2.186 billion.

9.1.2 Sensitivity Analyses

As part of its capacity planning process, OUC considers a number of sensitivity analyses to measure the impact of variations to critical assumptions. Among the numerous sensitivities that OUC may consider in its planning processes are high and low fuel prices, high and low load and energy growth projections, a case in which the differential between natural gas and coal price projections is held constant over time, and a high present worth discount rate case. Of these sensitivities, only the high load and energy growth projection sensitivity would potentially impact the timing of unit additions as compared to the base-case analysis. For informational purposes, the following subsections describe the high and low load and energy growth, the high and low fuel price, the constant differential fuel price, and the high present worth discount rate sensitivities.

9.1.2.1 High Load Forecast Sensitivity

The high load forecast is presented in Section 4.0; as with the base-case load forecast, OUC is anticipated to have sufficient capacity to maintain its 15 percent reserve margin under the high load forecast sensitivity. The CPWC associated with the high load analysis is approximately \$2.215 billion.

9.1.2.2 Low-Load Forecast Sensitivity

The low-load forecast is presented in Section 4.0; as with the base-case load forecast, OUC is anticipated to have sufficient capacity to maintain its 15 percent reserve margin under the low load forecast sensitivity. The CPWC associated with the low-load analysis is approximately \$2.146 billion.

9.1.2.3 High Fuel Price Forecast Sensitivity

OUC's contractual arrangements for coal delivery will mitigate the effects of volatility in coal prices; however, for purposes of this analysis, this factor was not considered. The CPWC associated with the high natural gas and coal price forecast sensitivity is approximately \$2.414 billion.

9.1.2.4 Low Fuel Price Forecast Sensitivity

OUC's contractual arrangements for coal delivery will mitigate the effects of volatility in coal prices; however, for purposes of this analysis, this factor was not considered. The CPWC associated with the low natural gas and coal price forecast sensitivity is approximately \$1.797 billion.

9.1.2.5 Constant Differential Natural Gas and Coal Price Forecast Sensitivity

The constant differential natural gas and coal price forecast sensitivity assumes that the differential in prices between coal and natural gas projected for 2025 will remain constant through 2034. The CPWC associated with the constant differential natural gas and coal price forecast sensitivity is approximately \$2.188 billion.

9.1.2.6 High Present Worth Discount Rate Sensitivity

The high present worth discount rate sensitivity assumes a 10 percent present worth discount rate instead of the 7.5 percent present worth discount rate used in the other economic analyses discussed in this section. The CPWC associated with the high present worth discount rate sensitivity is approximately \$1.983 billion.

10.0 ENVIRONMENTAL AND LAND USE INFORMATION

As discussed previously, consideration of OUC's current generating resources (including existing and planned PPAs) and OUC's current base-case load forecast indicates that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034 (the final year considered in this Ten-Year Site Plan).

11.0 CONCLUSIONS

As discussed previously, consideration of OUC's current generating resources (including existing, future generation and planned PPAs) and OUC's current base-case load forecast indicates that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034 (the final year considered in this Ten-Year Site Plan).

In 2020, OUC completed a comprehensive Electric Integrated Resource Plan to guide OUC through the next 30 years¹¹. Results of the EIRP have been discussed throughout this Ten-Year Site Plan. OUC expects to update its plan regularly, to incorporate changes such as the acquisition of Osceola Generating Station. Relevant highlights include:

- OUC anticipates entering into PPAs for approximately 1,491 MWac of solar (nameplate) and 800 MW of energy storage by 2034.
- OUC anticipates placing the coal-fired Unit Stanton Energy Center Unit 1 into extended cold shutdown by the end of May 2026.
- OUC anticipates converting the coal-fired Stanton Energy Center Unit 2 to be able to operate on 100 percent natural gas, no later than 2027.
- OUC has pledged to achieve Net Zero carbon emissions by 2050, with interim targets of 50% carbon emissions reductions by 2030 and 75% carbon emissions reductions by 2040, both as compared to 2005 levels.

¹¹ OUC anticipates refreshing its Electric Integrated Resource Plan within the next 18 months.

12.0 TEN-YEAR SITE PLAN SCHEDULES

This section presents the schedules required by the Ten-Year Site Plan rules for the FPSC. The information contained within the FPSC Schedules is representative of the combined OUC and City of St. Cloud systems, consistent with all sections of the 2025 OUC Ten-Year Site Plan.

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Schedule 1
Existing Generating Facilities
As of December 31, 2024

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Plant Name	Unit No.	Location	Unit Type	Fuel Pri	Fuel Alt	Fuel Transport Pri	Fuel Transport Alt	Alt. Fuel Days Use	Commercial In-Service Month/Year	Expected Retirement Month/Year	Gen. Max. Nameplate KW ⁽¹⁾	Net Capability	
												Summer MW	Winter MW
Indian River	A	Brevard	GT	NG	DFO	PL	TK	0.2	06/89	Unknown	41,400	16 ⁽²⁾	18 ⁽²⁾
Indian River	B	Brevard	GT	NG	DFO	PL	TK	0.2	07/89	Unknown	41,400	16 ⁽²⁾	18 ⁽²⁾
Indian River	C	Brevard	GT	NG	DFO	PL	TK	0.2	08/92	Unknown	130,000	83 ⁽³⁾	88 ⁽³⁾
Indian River	D	Brevard	GT	NG	DFO	PL	TK	0.2	10/92	Unknown	130,000	83 ⁽³⁾	88 ⁽³⁾
Stanton Energy Center	1	Orange	ST	BIT	NA	RR	UN	UN	07/87	Unknown ⁽⁴⁾	464,500	311 ⁽⁵⁾	311 ⁽⁵⁾
Stanton Energy Center	2	Orange	ST	BIT	NA	RR	UN	UN	06/96	Unknown	464,500	352 ⁽⁶⁾	352 ⁽⁶⁾
Stanton Energy Center	A	Orange	CC	NG	DFO	PL	TK	3	10/03	Unknown		184 ⁽⁷⁾	189 ⁽⁷⁾
Stanton Energy Center	B	Orange	CC	NG	DFO	PL	TK	3	02/10	Unknown	333,000	292	307
St. Lucie ⁽⁸⁾	2	St. Lucie	ST	NUC	NA	TK	UN	UN	08/83	Unknown		60	62
Osceola Generating Station ⁽⁹⁾	1	Osceola	GT	NG	DFO	PL	TK	3	12/2001	Unknown	197,000	157	157
Osceola Generating Station ⁽⁹⁾	2	Osceola	GT	NG	DFO	PL	TK	3	12/2001	Unknown	197,000	157	157
Osceola Generating Station ⁽⁹⁾	3	Osceola	GT	NG	DFO	PL	TK	3	6/2002	Unknown	197,000	157	157

NOTES:

⁽¹⁾ Nameplate ratings are reported for units which OUC maintains majority ownership. Values reported are for the entire unit (not just OUC's ownership share)

⁽²⁾ Reflects an OUC ownership share of 48.8 percent.

⁽³⁾ Reflects an OUC ownership share of 79.0 percent. Indian River Unit D is currently off-line for maintenance and expected to return to service by the winter 2025/26 peak period.

⁽⁴⁾ As discussed throughout OUC's 2025 10-Year Site Plan, OUC currently anticipates placing Stanton Energy Center Unit 1 into extended cold shutdown by the end of May 2026.

⁽⁵⁾ Reflects an OUC ownership share of 68.6 percent.

⁽⁶⁾ Reflects an OUC ownership share of 71.6 percent and St. Cloud entitlement of 3.4 percent.

⁽⁷⁾ Reflects an OUC ownership share of 28.0 percent.

⁽⁸⁾ OUC owns approximately 6.1 percent of St. Lucie Unit No. 2. Reliability exchange divides 50 percent power from Unit No. 1 and 50 percent power from Unit No. 2.

⁽⁹⁾ Osceola Generating Station Unit 2 is currently not able to provide power to OUC but expected to be able to provide power to OUC by the summer 2026 peak period. Osceola Generating Station Units 1 and 3 are currently not able to provide power to OUC but are anticipated to be able to provide power to OUC by the summer of 2025 peak period.

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Schedule 2.1
History and Forecast of Energy Consumption and
Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Year	Population	Members per Household	Rural and Residential Average No. of Customers GWH	Average KWH Consumption Per Customer	Average KWH Consumption Per Customer	GWH	Commercial Average No. of Customers	Average KWH Consumption Per Customer
HISTORY:								
2015	496,659	2.54	2,430	195,606	12,423	393	23,705	16,579
2016	514,813	2.56	2,491	201,424	12,369	401	23,991	16,719
2017	576,536	2.79	2,481	206,959	11,987	424	24,323	17,440
2018	577,895	2.74	2,576	210,899	12,212	475	25,020	18,966
2019	615,376	2.85	2,599	216,113	12,026	474	25,751	18,424
2020	634,982	2.86	2,750	221,756	12,402	459	26,391	17,408
2021	631,387	2.76	2,701	228,707	11,808	461	27,128	16,997
2022	642,220	2.72	2,798	236,057	11,851	484	28,013	17,285
2023	633,874	2.62	2,857	242,199	11,795	506	28,065	18,020
2024	655,296	2.64	2,923	248,682	11,752	506	28,394	17,814
FORECAST:								
2025	672,340	2.66	2,994	253,000	11,833	506	28,636	17,660
2026	682,840	2.66	3,092	256,431	12,058	512	28,951	17,673
2027	690,624	2.66	3,199	260,091	12,299	519	29,264	17,725
2028	699,022	2.65	3,309	263,526	12,555	526	29,576	17,793
2029	708,107	2.65	3,421	267,089	12,810	534	29,871	17,882
2030	717,682	2.65	3,532	271,062	13,030	541	30,143	17,949
2031	727,448	2.64	3,653	275,338	13,269	548	30,400	18,026
2032	737,612	2.64	3,789	279,721	13,546	556	30,650	18,140
2033	747,982	2.63	3,931	284,218	13,830	565	30,890	18,280
2034	758,551	2.63	4,064	288,764	14,073	574	31,123	18,455

Notes:
Represents total of OUC and St. Cloud.

**ORLANDO UTILITIES COMMISSION
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**Schedule 2.2
History and Forecast of Energy Consumption and
Number of Customers by Customer Class**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Year	GWH	Industrial Average No. of Customers	Average KWH Consumption Per Customer	Railroads and Railways GWH	Street & Highway Lighting GWH	Other Sales to Public Authorities GWH	Total Sales to Ultimate Consumers GWH
HISTORY:							
2015	3,514	5,793	606,594	0	61	139	6,537
2016	3,506	5,811	603,333	0	61	142	6,601
2017	3,480	5,839	595,929	0	59	124	6,568
2018	3,513	5,709	615,262	0	61	146	6,769
2019	3,544	5,579	635,318	0	61	145	6,823
2020	3,336	5,301	629,406	0	62	131	6,740
2021	3,447	5,210	661,681	0	62	136	6,807
2022	3,557	5,102	697,124	0	63	141	7,042
2023	3,587	5,075	706,729	0	44	162	7,155
2024	3,638	5,103	712,958	0	62	167	7,295
FORECAST:							
2025	3,689	5,146	716,808	0	62	157	7,407
2026	3,813	5,191	734,509	0	62	164	7,643
2027	3,864	5,237	737,885	0	63	165	7,809
2028	3,919	5,281	742,134	0	63	165	7,982
2029	3,988	5,322	749,406	0	63	165	8,172
2030	4,079	5,360	761,100	0	63	165	8,381
2031	4,130	5,395	765,511	0	64	166	8,560
2032	4,188	5,428	771,613	0	64	166	8,763
2033	4,251	5,460	778,560	0	64	166	8,976
2034	4,320	5,489	787,073	0	65	166	9,189

Notes:
Represents total of OUC and St. Cloud.

Schedule 2.3
History and Forecast of Energy Consumption and
Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)
Year	Sales for Resale GWH	Utility Use & Losses GWH	Net Energy for Load GWH	Other Customers (Average No.)	Total No. of Customers
HISTORY:					
2015	1,317	268	8,122	0	225,104
2016	1,100	278	7,979	0	231,226
2017	1,032	302	7,902	0	237,121
2018	1,040	189	7,998	0	241,628
2019	644	295	7,762	0	247,443
2020	665	220	7,625	0	253,448
2021	534	206	7,547	0	261,045
2022	505	217	7,764	0	269,172
2023	578	239	7,972	0	275,339
2024	575	337	8,206	0	282,179
FORECAST:					
2025	520	263	8,190	0	286,782
2026	278	272	8,193	0	290,573
2027	146	280	8,236	0	294,592
2028	111	289	8,382	0	298,383
2029	112	297	8,582	0	302,282
2030	114	306	8,801	0	306,565
2031	0	314	8,874	0	311,133
2032	0	323	9,086	0	315,799
2033	0	333	9,309	0	320,568
2034	0	343	9,532	0	325,376

Notes:

Represents total of OUC and St. Cloud.

Historical "Sales for Resale" includes sales to various entities to which OUC provided power.

Forecast "Sales for Resale" includes aggregated projected sales to City of Winter Park, City of Lake Worth Beach, City Mt. Dora, City of Chattahoochee, and Lakeland Electric as summarized in Section 2 of OUC's 2025 Ten-Year Site Plan.

"Net Energy for Load" may not match other Schedules due to rounding.

ORLANDO UTILITIES COMMISSION
2025 TEN-YEAR SITE PLAN

Schedule 3.1
History and Forecast of Summer Peak Demand
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	Comm./Ind. Load Management	Comm./Ind. Conservation	Net Firm Demand
HISTORY:									
2015	1,531	206	1,325	0	0	0.4	0.0	2.2	1,528
2016	1,620	252	1,368	0	0	0.5	0.0	2.5	1,617
2017	1,638	255	1,383	0	0	0.4	0.0	5.0	1,633
2018	1,541	207	1,334	0	0	0.4	0.0	3.7	1,537
2019	1,634	199	1,431	0	0	0.5	0.0	3.4	1,630
2020	1,590	224	1,362	0	0	0.8	0.0	2.3	1,586
2021	1,653	246	1,404	0	0	0.6	0.0	1.9	1,650
2022	1,666	243	1,420	0	0	0.5	0.0	2.0	1,663
2023	1,795	241	1,551	0	0	0.8	0.0	1.6	1,792
2024	1,811	300	1,509	0	0	0.7	0.0	1.4	1,809
FORECAST:									
2025	1,734	200	1,533	0	0	0.1	0.0	0.5	1,733
2026	1,731	152	1,578	0	0	0.2	0.0	1.0	1,730
2027	1,648	35	1,611	0	0	0.3	0.0	1.6	1,646
2028	1,674	27	1,644	0	0	0.5	0.0	2.2	1,671
2029	1,710	27	1,680	0	0	0.6	0.0	2.9	1,707
2030	1,752	27	1,721	0	0	0.7	0.0	3.6	1,748
2031	1,775	0	1,770	0	0	0.8	0.0	4.3	1,770
2032	1,824	0	1,818	0	0	0.9	0.0	4.8	1,818
2033	1,875	0	1,868	0	0	1.1	0.0	5.5	1,868
2034	1,924	0	1,916	0	0	1.2	0.0	6.3	1,916

Notes:

"Retail" represents total of OUC and St. Cloud. "Wholesale" represents peak demand for entities to which OUC provided wholesale power. Peak demands may not match other schedules and tables in OUC's 2025 10-Year Site Plan due to non-coincidence of peaks and/or rounding.

Historical "Residential Conservation" and "Comm/Ind. Conservation" represent annual demand reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan.

Forecast "Residential Conservation" and "Comm/Ind. Conservation" represent cumulative annual demand reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan.

Historical "Wholesale" includes sales to various entities to which OUC provided power.

Forecast "Wholesale" includes aggregated projected sales to City of Winter Park, City of Lake Worth Beach, City Mt. Dora, City of Chattahoochee, and Lakeland Electric as summarized in Section 2 of OUC's 2025 Ten-Year Site Plan.

"Wholesale" and "Retail" are net of "Conservation" reductions.

ORLANDO UTILITIES COMMISSION
2025 TEN-YEAR SITE PLAN

Schedule 3.2
History and Forecast of Winter Peak Demand
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Total	Wholesale	Retail	Interruptible	Residential Load Management	Residential Conservation	Comm./Ind. Load Management	Comm./Ind. Conservation	Net Firm Demand
HISTORY:									
2014/15	1,374	207	1,166	0	0	0.4	0.0	0.7	1,373
2015/16	1,320	243	1,077	0	0	0.4	0.0	1.3	1,319
2016/17	1,194	210	984	0	0	0.3	0.0	4.4	1,189
2017/18	1,410	182	1,228	0	0	0.3	0.0	4.7	1,405
2018/19	1,134	76	1,055	0	0	0.3	0.0	3.5	1,131
2019/20	1,160	67	1,090	0	0	0.8	0.0	2.0	1,157
2020/21	1,307	169	1,134	0	0	1.0	0.0	2.0	1,304
2021/22	1,348	190	1,156	0	0	0.7	0.0	1.7	1,346
2022/23	1,521	291	1,228	0	0	1.0	0.0	1.6	1,519
2023/24	1,351	221	1,128	0	0	0.7	0.0	1.0	1,349
FORECAST:									
2024/25	1,372	111	1,259	0	0	0.4	0	1.4	1,370
2025/26	1,407	94	1,311	0	0	0.6	0	1.8	1,405
2026/27	1,381	27	1,351	0	0	0.8	0	2.3	1,378
2027/28	1,378	20	1,354	0	0	1.0	0	2.8	1,374
2028/29	1,452	20	1,428	0	0	1.3	0	3.3	1,448
2029/30	1,506	21	1,479	0	0	1.5	0	3.8	1,500
2030/31	1,505	0	1,498	0	0	1.8	0	4.4	1,498
2031/32	1,558	0	1,551	0	0	2.0	0	4.9	1,551
2032/33	1,660	0	1,652	0	0	2.3	0	5.4	1,652
2033/34	1,711	0	1,703	0	0	2.6	0	5.9	1,703

Notes:

"Retail" represents total of OUC and St. Cloud. "Wholesale" represents peak demand for entities to which OUC provided wholesale power. Peak demands may not match other schedules and tables in OUC's Historical "Residential Conservation" and "Comm/Ind. Conservation" represent annual demand reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan. Forecast "Residential Conservation" and "Comm/Ind. Conservation" represent cumulative annual demand reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan. Historical "Wholesale" includes sales to various entities to which OUC provided power. Forecast "Wholesale" includes aggregated projected sales to City of Winter Park, City of Lake Worth Beach, City Mt. Dora, City of Chattahoochee, and Lakeland Electric as summarized in Section 2 of OUC's 2025 Ten-Year Site Plan. "Wholesale" and "Retail" are net of "Conservation" reductions.

ORLANDO UTILITIES COMMISSION

2025 TEN-YEAR SITE PLAN

Schedule 3.3 History and Forecast of Annual Net Energy for Load - GWH Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Year	Total	Residential Conservation	Comm./Ind. Conservation	Retail	Wholesale	Utility Use & Losses	Net Energy for Load	Load Factor %
HISTORY:								
2015	8,136	0.8	13.4	6,537	1,317	268	8,122	57.3%
2016	7,992	1.2	12.3	6,601	1,100	278	7,979	55.4%
2017	7,934	0.8	31.0	6,568	1,032	302	7,902	55.3%
2018	8,033	0.8	34.7	6,769	1,040	189	7,998	59.4%
2019	7,778	1.0	14.3	6,823	644	295	7,762	54.4%
2020	7,558	1.6	9.0	6,740	665	220	7,625	52.2%
2021	7,570	11.5	11.4	6,807	534	206	7,547	52.2%
2022	7,770	1.1	4.8	7,042	505	217	7,764	53.3%
2023	7,983	1.9	8.5	7,155	578	239	7,972	50.8%
2024	8,216	1.7	8.2	7,295	575	337	8,206	51.8%
FORECAST:								
2025	8,194	1.1	3.2	7,407	520	263	8,190	53.9%
2026	8,202	2.2	6.7	7,643	278	272	8,193	54.1%
2027	8,249	3.4	10.5	7,809	146	280	8,236	57.1%
2028	8,401	4.6	14.5	7,982	111	289	8,382	57.2%
2029	8,606	5.9	18.8	8,172	112	297	8,582	57.4%
2030	8,831	7.3	23.2	8,381	114	306	8,801	57.5%
2031	8,911	8.7	27.8	8,560	0	314	8,874	57.2%
2032	9,129	10.2	32.5	8,763	0	323	9,086	57.1%
2033	9,358	11.8	37.3	8,976	0	333	9,309	56.9%
2034	9,587	13.4	42.1	9,189	0	343	9,532	56.8%

Notes:

"Retail" represents total of OUC and St. Cloud. "Wholesale" represents energy for entities to which OUC provided wholesale power. Energy may not match other schedules and tables in OUC's 2025 10-Year Site Plan due to rounding.

Historical "Residential Conservation" and "Comm/Ind. Conservation" represent annual energy reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan.

Forecast "Residential Conservation" and "Comm/Ind. Conservation" represent cumulative annual energy reductions associated with new participants in OUC's DSM programs described in Section 5 of OUC's 2025 Ten-Year Site Plan.

Historical "Wholesale" includes sales to various entities to which OUC provided power.

Forecast "Wholesale" includes aggregated projected sales to City of Winter Park, City of Lake Worth Beach, City Mt. Dora, City of Chattahoochee, and Lakeland Electric as summarized in Section 2 of OUC's 2025 Ten-Year Site Plan.

"Wholesale" and "Retail" are net of "Conservation" reductions.

Schedule 4
Previous Year and 2-Year Forecast of Retail Peak Demand and Net Energy for Load by Month

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Month	2024 Actual		2025 Forecast		2026 Forecast	
	Peak Demand MW	NEL GWH	Peak Demand MW	NEL GWH	Peak Demand MW	NEL GWH
January	977	542	1,207	580	1,248	590
February	965	488	1,253	511	1,311	527
March	1,128	561	1,115	574	1,167	594
April	1,255	563	1,248	601	1,305	621
May	1,427	727	1,440	679	1,499	700
June	1,494	734	1,454	711	1,500	735
July	1,504	791	1,477	763	1,522	788
August	1,477	769	1,533	767	1,578	792
September	1,388	718	1,445	707	1,486	731
October	1,342	632	1,371	651	1,402	672
November	1,200	565	1,247	558	1,278	579
December	967	542	1,152	569	1,184	589

Notes:

Represents the total of OUC and St. Cloud retail peak demands and net energy for load. Wholesale sales are not included.

Peak demands may not match other schedules and tables in OUC's 2025 10-Year Site Plan due to non-coincidence of OUC and St. Cloud peaks and/or rounding. NEL may not match other schedules and tables in OUC's 2025 Ten-Year Site Plan due to rounding.

ORLANDO UTILITIES COMMISSION 2025 TEN-YEAR SITE PLAN

Schedule 5 Fuel Requirements

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Fuel Requirements		Units	Actual 2023	Actual 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
(1)	Nuclear		Trillion BTU	6	5	6	6	6	6	6	6	6	6	6	6
(2)	Coal		1000 Ton	941	793	1,288	918	667	0	0	0	0	0	0	0
(3)	Residual	Total	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(4)		Steam	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(5)		CC	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(6)		CT	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(7)		Other	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(8)	Distillate	Total	1000 BBL	0	28	0	0	0	0	0	0	0	0	0	0
(9)		Steam	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(10)		CC	1000 BBL	0	3	0	0	0	0	0	0	0	0	0	0
(11)		CT	1000 BBL	0	26	0	0	0	0	0	0	0	0	0	0
(12)		Other	1000 BBL	0	0	0	0	0	0	0	0	0	0	0	0
(13)	Natural Gas	Total	1000 MCF	38,959	43,247	31,226	36,324	37,682	51,875	52,218	51,212	49,828	51,893	45,476	39,065
(14)		Steam	1000 MCF	4,241	4,552	1,937	1,964	2,939	10,197	10,107	11,143	11,842	17,417	18,243	15,442
(15)		CC	1000 MCF	33,697	37,683	29,086	32,639	33,527	38,497	37,259	35,415	32,007	24,951	22,236	18,833
(16)		CT	1000 MCF	1,021	1,012	203	1,720	1,215	3,182	4,852	4,654	5,980	9,525	4,997	4,790
(17)	Other (Specify)		Trillion BTU	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Represents fuel required to serve OUC and St. Cloud, and sales to wholesale customers.

Natural gas CC includes purchases from Stanton A PPA

ORLANDO UTILITIES COMMISSION
2025 TEN-YEAR SITE PLAN

Schedule 6.1
Energy Sources

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Energy Sources		Units	Actual 2023	Actual 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
(1)	Firm Inter-Region Interchange		GWH	0	0	0	0	0	0	0	0	0	0	0	0
(2)	Nuclear		GWH	494	433	504	511	512	512	512	511	512	513	512	511
(3)	Coal		GWH	1,938	1,608	2,435	1,845	1,305	0	0	0	0	0	0	0
(4)	Residual	Total	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(5)		Steam	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(6)		CC	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(7)		CT	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(8)		Other	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(9)	Distillate	Total	GWH	0	4	0	0	0	0	0	0	0	0	0	0
(10)		Steam	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(11)		CC	GWH	0	2	0	0	0	0	0	0	0	0	0	0
(12)		CT	GWH	0	2	0	0	0	0	0	0	0	0	0	0
(13)		Other	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(14)	Natural Gas	Total	GWH	5,144	5,753	4,380	4,998	5,195	6,643	6,452	6,275	5,952	5,759	4,999	4,230
(15)		Steam	GWH	369	384	180	197	288	873	717	847	919	1,451	1,486	1,221
(16)		CC	GWH	4,712	5,303	4,185	4,666	4,811	5,510	5,346	5,059	4,550	3,511	3,108	2,615
(17)		CT	GWH	63	65	15	135	96	259	389	369	482	797	405	394
(18)	NUG		GWH	0	0	0	0	0	0	0	0	0	0	0	0
(19)	Renewables	Total	GWH	396	408	871	839	1,224	1,227	1,617	2,014	2,411	2,814	3,798	4,791
(20)		Biofuels	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(21)		Biomass	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(22)		Hydro	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(23)		Landfill Gas	GWH	114	139	166	134	122	123	122	122	122	123	122	122
(24)		MSW	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(25)		Solar	GWH	282	268	705	705	1,101	1,104	1,495	1,892	2,288	2,691	3,676	4,668
(26)		Wind	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(27)		Other	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(28)	Other (Specify)		GWH	0	0	0	0	0	0	0	0	0	0	0	0
(29)	Net Energy for Load		GWH	7,972	8,206	8,190	8,193	8,236	8,382	8,582	8,800	8,874	9,086	9,309	9,532

Notes:

Represents GWh required to serve OUC and St. Cloud, and sales to wholesale customers.

Total Net Energy for Load may not correspond to other Schedules due to rounding.

Natural Gas CC includes purchases from Stanton APPA

ORLANDO UTILITIES COMMISSION
2025 TEN-YEAR SITE PLAN

Schedule 6.2
Energy Sources

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Energy Sources		Units	Actual 2023	Actual 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
(1)	Firm Inter-Region Interchange		%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(2)	Nuclear		%	6.20%	5.28%	6.16%	6.24%	6.22%	6.11%	5.97%	5.81%	5.77%	5.64%	5.50%	5.36%
(3)	Coal		%	24.31%	19.59%	29.73%	22.52%	15.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(4)	Residual	Total	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(5)		Steam	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(6)		CC	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(7)		CT	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(8)		Other	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(9)	Distillate	Total	%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(10)		Steam	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(11)		CC	%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(12)		CT	%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(13)		Other	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(14)	Natural Gas	Total	%	64.52%	70.11%	53.48%	61.00%	63.08%	79.25%	75.19%	71.30%	67.07%	63.39%	53.70%	44.37%
(15)		Steam	%	4.63%	4.68%	2.20%	2.41%	3.49%	10.42%	8.36%	9.62%	10.36%	15.97%	15.96%	12.81%
(16)		CC	%	59.11%	64.63%	51.10%	56.95%	58.42%	65.74%	62.29%	57.49%	51.28%	38.65%	33.39%	27.43%
(17)		CT	%	0.79%	0.80%	0.18%	1.65%	1.17%	3.09%	4.54%	4.19%	5.43%	8.77%	4.35%	4.14%
(18)	NUG		%												
(19)	Renewables	Total	%	4.97%	4.97%	10.63%	10.24%	14.86%	14.64%	18.85%	22.89%	27.16%	30.97%	40.80%	50.26%
(20)		Biofuels	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(21)		Biomass	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(22)		Hydro	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(23)		Landfill Gas	%	1.44%	1.70%	2.03%	1.64%	1.49%	1.46%	1.43%	1.39%	1.38%	1.35%	1.31%	1.28%
(24)		MSW	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(25)		Solar	%	3.53%	3.27%	8.61%	8.60%	13.37%	13.17%	17.42%	21.50%	25.78%	29.62%	39.49%	48.98%
(26)		Wind	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(27)		Other	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(28)	Other (Specify)		%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(29)	Net Energy for Load		%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Notes:

Represents GWh required to serve OUC and St. Cloud, and sales to wholesale customers.
Natural Gas CC includes purchases from Stanton A PPA

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Schedule 7.1
Forecast of Capacity, Demand, and Scheduled Maintenance at Time of Summer Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Year	Total Installed Capacity MW	Firm Capacity Import MW	Firm Capacity Export MW	QF MW	Total Capacity Available MW	System Firm Summer Peak Demand MW	Reserve Margin before Maintenance MW	% of Peak	Scheduled Maintenance MW	Reserve Margin after Maintenance MW	% of Peak
FORECAST:											
2025	1,627	586	0	0	2,213	1,733	480	31%	0	480	31%
2026	1,556	586	0	0	2,142	1,730	412	26%	0	412	26%
2027	1,556	760	0	0	2,316	1,646	671	42%	0	671	42%
2028	1,556	760	0	0	2,316	1,671	645	39%	0	645	39%
2029	1,556	748	0	0	2,304	1,707	597	36%	0	597	36%
2030	1,556	822	0	0	2,378	1,748	630	37%	0	630	37%
2031	1,556	997	0	0	2,553	1,770	783	44%	0	783	44%
2032	1,556	879	0	0	2,435	1,818	617	34%	0	617	34%
2033	1,556	1,316	0	0	2,872	1,868	1,003	54%	0	1,003	54%
2034	1,556	1,702	0	0	3,258	1,916	1,342	70%	0	1,342	70%

Notes:

"Firm Capacity Import" includes OUC's existing and future power purchase agreements, including renewables.

"System Firm Summer Peak Demand" includes OUC and St. Cloud peak demand, as well as OUC's wholesale power sales, and is non-coincident.

"Reserve Margin (MW)" calculated as "Total Available Capacity" minus "System Firm Summer Peak Demand."

"Reserve Margin (% of Peak)" calculated as "Reserve Margin (MW)" divided by "System Firm Summer Peak Demand" after adjusting for sales to Lake Worth, Winter Park, Mt. Dora, Chattahoochee, and Lakeland. OUC's agreement with Lake Worth already includes reserve calculations and OUC is not responsible for providing reserves to Winter Park, Mt. Dora, Chattahoochee, or Lakeland.

"Scheduled Maintenance (MW)" is zero, as no units are scheduled for maintenance during peak periods.

Forecast "System Firm Summer Peak Demand" may not exactly match up with peak demands presented in the OUC's 2025 Ten-Year Site Plan due to coincidence and rounding.

Reflects anticipated dates by which the Osceola Generating Station Units 1 through Unit 3 will be capable of delivering power to OUC following completion of necessary maintenance and transmission system improvements (summer of 2026 for Unit 2; summer of 2025 for Units 1 and 3) and completion of maintenance activities on Indian River Unit D by the winter of 2025/26. Capacity from Stanton Energy Center Unit 1 no longer included beginning summer 2026 as OUC anticipates placing the unit in extended cold shutdown by May 31, 2026.

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Schedule 7.2
Forecast of Capacity, Demand, and Scheduled Maintenance at Time of Winter Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Year	Total Installed Capacity MW	Firm Capacity Import MW	Firm Capacity Export MW	QF MW	Total Capacity Available MW	System Firm Winter Peak Demand MW	Reserve Margin before Maintenance MW	% of Peak	Scheduled Maintenance MW	Reserve Margin after Maintenance MW	% of Peak
FORECAST:											
2024/25	1,344	455	0	0	1,799	1,370	430	34%	0	430	34%
2025/26	1,747	455	0	0	2,202	1,405	797	61%	0	797	61%
2026/27	1,593	455	0	0	2,048	1,378	670	50%	0	670	50%
2027/28	1,593	555	0	0	2,148	1,374	774	57%	0	774	57%
2028/29	1,593	468	0	0	2,061	1,448	614	43%	0	614	43%
2029/30	1,593	468	0	0	2,061	1,500	561	38%	0	561	38%
2030/31	1,593	468	0	0	2,061	1,498	563	38%	0	563	38%
2031/32	1,593	219	0	0	1,812	1,551	262	17%	0	262	17%
2032/33	1,593	369	0	0	1,962	1,652	310	19%	0	310	19%
2033/34	1,593	619	0	0	2,212	1,703	509	30%	0	509	30%

Notes:

"Firm Capacity Import" includes OUC's existing and future power purchase agreements, including renewables.

"System Firm Winter Peak Demand" includes OUC and St. Cloud peak demand, as well as OUC's wholesale power sales, and is non-coincident.

"Reserve Margin (MW)" calculated as "Total Available Capacity" minus "System Firm Winter Peak Demand."

"Reserve Margin (% of Peak)" calculated as "Reserve Margin (MW)" divided by "System Firm Winter Peak Demand" after adjusting for sales to Lake Worth, Winter Park, Mt. Dora, Chattahoochee, and Lakeland. OUC's agreement with Lake Worth already includes reserve calculations and OUC is not responsible for providing reserves to Winter Park, Mt. Dora, Chattahoochee, or Lakeland.

"Scheduled Maintenance (MW)" is zero, as no units are scheduled for maintenance during peak periods.

Forecast "System Firm Winter Peak Demand" may not exactly match up with peak demands presented in the OUC's 2025 Ten-Year Site Plan due to coincidence and rounding.

Reflects anticipated dates by which the Osceola Generating Station Units 1 through Unit 3 will be capable of delivering power to OUC following completion of necessary maintenance and transmission system improvements (summer of 2026 for Unit 2; summer of 2025 for Units 1 and 3) and completion of maintenance activities on Indian River Unit D by the winter of 2025/26.

Capacity from Stanton Energy Center Unit 1 no longer included beginning summer 2026 as OUC anticipates placing the unit in extended cold shutdown by May 31, 2026.

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**Schedule 8
Planned and Prospective Generating Facility Additions and Changes**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Plant Name	Unit No.	Location	Unit Type	Fuel		Fuel Transport		Const. Start Mo/Yr	Commercial In-Service Mo/Yr	Expected Retirement Mo/Yr	Gen. Max. Nameplate KW	Net Capability Summer MW Winter MW		Status
Stanton Energy Center	1	Orange	ST	BIT	N/A	RR	N/A	-	N/A	Unknown ⁽¹⁾	464,500	-311	-311	OS
Stanton Energy Center	2	Orange	ST	NG	N/A	PL	N/A	-	N/A	04/27	464,500	352 ⁽²⁾	350 ⁽²⁾	OT

Notes:

1. As discussed throughout OUC's 2025 10-Year Site Plan, OUC currently anticipates placing Stanton Energy Center Unit 1 into extended cold shutdown by the end of May 2026. Changes to Net Capability for Stanton Energy Center Unit 1 represents reduction in output for OUC's ownership share of Stanton 1 following unit being placed into extended cold shutdown.
2. Changes to Stanton Energy Center Unit 2 represents conversion from coal to natural gas. Net Capability shown is not incremental but rather the net capability following conversion.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) Plant Name and Unit Number:
- (2) Capacity
 - a. Summer:
 - b. Winter:
- (3) Technology Type:
- (4) Anticipated Construction Timing
 - a. Field construction start-date:
 - b. Commercial in-service date:
- (5) Fuel
 - a. Primary fuel:
 - b. Alternate fuel:
- (6) Air Pollution Control Strategy:
- (7) Cooling Method:
- (8) Total Site Area:
- (9) Construction Status:
- (10) Certification Status:
- (11) Status with Federal Agencies:
- (12) Projected Unit Performance Data
 - Planned Outage Factor (POF):
 - Forced Outage Factor (FOF):
 - Equivalent Availability Factor (EAF):
 - Resulting Capacity Factor (%):
 - Average Net Operating Heat Rate (ANOHR):
- (13) Projected Unit Financial Data
 - Book Life (Years):
 - Total Installed Cost (In-Service Year \$/kW):
 - Direct Construction Cost (\$/kW):
 - AFUDC Amount (\$/kW):
 - Escalation (\$/kW):
 - Fixed O&M (\$/kW-Yr):
 - Variable O&M (\$/MWH):
 - K Factor:

Notes:
As discussed throughout OUC's 2025 Ten-Year Site Plan, consideration of OUC's current existing generating resources (including existing PPAs), OUC's expected future PPAs, and OUC's current base-case load forecast indicates that OUC is projected to have adequate capacity to satisfy forecast reserve margin requirements through 2034 (the final year considered in the 2025 Ten-Year Site Plan). As such, no new capacity additions are included in the 2025 Ten-Year Site Plan.

Schedule 10
Status Report and Specifications of Proposed Directly Associated Transmission Lines

- (1) Point of Origin and Termination:
- (2) Number of Lines:
- (3) Right-of-Way:
- (4) Line Length:
- (5) Voltage:
- (6) Anticipated Construction Timing:
- (7) Anticipated Capital Investment:
- (8) Substations:
- (9) Participation with Other Utilities:

Notes:

OUC's 2025 Ten-Year Site Plan does not include any proposed directly associated transmission lines. Therefore, Schedule 10 is not applicable.