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September 5, 2023

**ELECTRONIC FILING**

Mr. Adam Teitzman  
Commission Clerk  
Florida Public Service Commission  
Betty Easley Conference Center  
2540 Shumard Oak Boulevard, Room 110  
Tallahassee, Florida 32399-0850

RE: Orlando Utilities Commission's Presentation for Ten-Year Site Plan  
Workshop on September 12, 2023 (Undocketed Matter)

Dear Mr. Teitzman:

Attached for filing is Orlando Utilities Commission's PowerPoint presentation for the Public Service Commission's Ten-Year Site Plan workshop to be held on September 12, 2023. The attached copy is provided in pdf format, but I am simultaneously sending both you and Phillip Ellis a copy of OUC's PowerPoint slides in native format under cover of a separate email.

As always, OUC thanks you and your staff for your professional assistance with handling this filing. Please call or email me if you or the Commission Staff have any questions regarding this filing or if you need any additional information.

Cordially yours,

/s/ Robert Scheffel Wright  
Robert Scheffel Wright

Enclosure

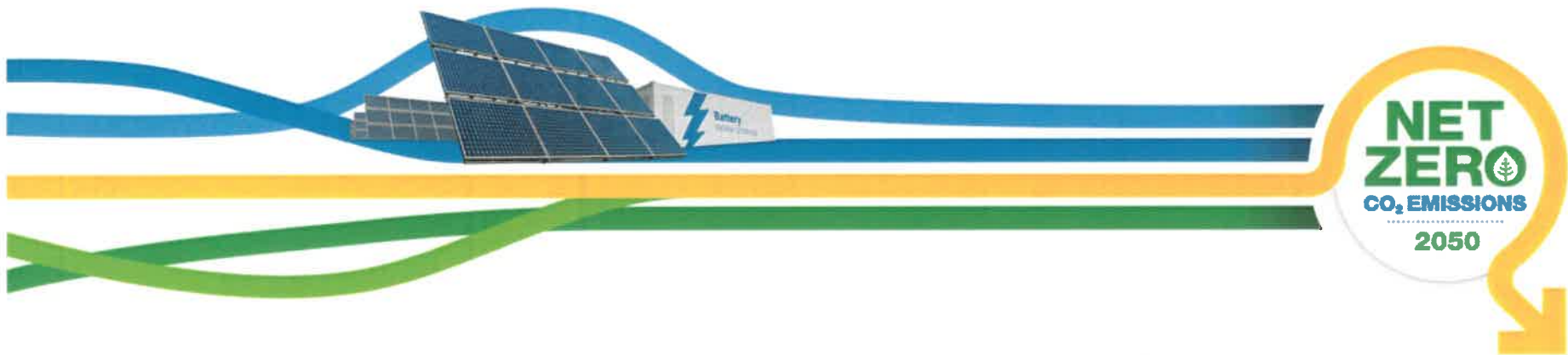
Copy: Mr. Phillip Ellis

# Ten-Year Site Plan Comparison Orlando Utilities Commission

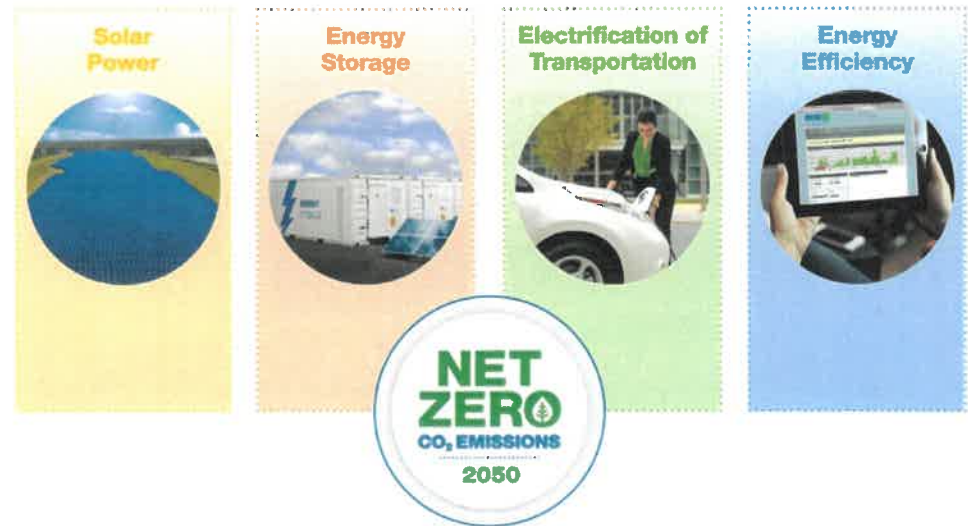
**OUC100**

*A Century of Reliability*

- Orlando Utilities Commission (“OUC”) continues its commitment to achieve Net-Zero CO<sub>2</sub> emissions by 2050.
- Electric Resource Planning is an ongoing process. OUC will continue on its path to Net-Zero CO<sub>2</sub> emissions while maintaining very high service reliability, maintaining appropriate planning flexibility, and ensuring reasonable costs to OUC’s customers.



- **OUC established interim goals for CO<sub>2</sub> emissions reduction from 2005 levels in 2020**
  - 2030 Goal: 50% Reduction
  - 2040 Goal: 75% Reduction
  - 2050 Goal: Net-zero
- **OUC is on-track to meet its 2030, 2040, and 2050 CO<sub>2</sub> Net-Zero goals through strategic investments in solar, energy storage, vehicle electrification, energy efficiency and more.**



## 2022 TYSP

Metric	2021 Starting Value	Average Annual Growth Rate (%)
Residential Customers	228,707	(2021 – 2031): 2.35%
Commercial Customers	27,128	(2021 – 2031): 1.38%
Industrial Customers	5,210	(2021 – 2031): 0.99%
Summer Peak Demand (MW)	1,404	(2021 – 2031): 1.87%
Winter Peak Demand (MW)	1,135	(2021 - 2031): 2.85%
Net Energy for Load (GWh)	7,013	(2021 – 2031): 1.96%
Natural Gas (\$/MMBtu)	_*	_*

## 2023 TYSP

Metric	2022 Starting Value	Average Annual Growth Rate (%)
Residential Customers	236,057	(2022 – 2032): 2.02%
Commercial Customers	28,013	(2022 – 2032): 1.35%
Industrial Customers	5,102	(2022 – 2032): 1.16%
Summer Peak Demand (MW)	1,420	(2022 – 2032): 1.89%
Winter Peak Demand (MW)	1,156	(2022 – 2032): 2.09%
Net Energy for Load (GWh)	7,259	(2022 – 2032): 1.07%
Natural Gas (\$/MMBtu)	_*	_*

Source: Schedules 2.1, 2.2, 3.1, 3.2, 3.3

All values represent total of OUC and St. Cloud.

Summer Peak Demand, Winter Peak Demand, and Net Energy for Load exclude wholesale power projected to be provided via contractual power sales to other utilities.

\*OUC considers fuel prices to be proprietary and confidential and are therefore not reported.



# Generation Additions

	Type	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
2022 TYSP	Solar (Nameplate) <sup>(1)</sup>			149	224	149	149	224	224	298			1,417
	Batteries			40	60	50		50		150			350
	Natural Gas				471 <sup>(2)</sup>		350 <sup>(4)</sup>						821
	Other												
	Retirements				-312 <sup>(3)</sup>		-350 <sup>(4)</sup>						-662
	<b>Net Total</b>			<b>189</b>	<b>443</b>	<b>199</b>	<b>149</b>	<b>274</b>	<b>224</b>	<b>448</b>			<b>1,926</b>
2023 TYSP	Solar (Nameplate) <sup>(1)</sup>				149		149		149	149	149	149	894
	Batteries						100				100	150	350
	Natural Gas		157 <sup>(2)</sup>		314 <sup>(2)</sup>		352 <sup>(4)</sup>						823
	Other												
	Retirements				-311 <sup>(3)</sup>		-352 <sup>(4)</sup>						-663
	<b>Net Total</b>		<b>157</b>		<b>152</b>		<b>249</b>		<b>149</b>	<b>149</b>	<b>249</b>	<b>299</b>	<b>1,404</b>

Source: Schedule 8 and Table 6-1

1. Nameplate rating shown. OUC utilizes 50% of nameplate for contribution to summer peak demand and 0% of nameplate for contribution to winter peak demand for solar PV.
2. 2025: "Natural Gas" reflects Osceola Generating Station ("OGS") Units 1 – 3. In 2022 TYSP, OGS Units 1-3 were anticipated to first be capable of providing power to OUC by Summer of 2025. OGS Unit 2 is currently capable of providing power to OUC, so 2023 TYSP shows capacity from OGS Units 1 and 3 beginning Summer 2025.
3. 2025: "Retirements" reflects retirement of Stanton Energy Center Unit 1.
4. 2027: "Natural Gas" and "Retirements" reflect conversion of Stanton Energy Center Unit 2 to 100% natural gas.

# Summer Reserve Margins

Year	2022 TYSP		2023 TYSP	
	Reserve Margin (MW)	Reserve Margin (% of Peak)	Reserve Margin (MW)	Reserve Margin (% of Peak)
2022	340	24%	-	-
2023	318	22%	310	21%
2024	340	23%	263	18%
2025	930	62%	731	48%
2026	763	50%	454	29%
2027	825	53%	624	40%
2028	987	62%	609	38%
2029	1,067	65%	657	41%
2030	1,339	81%	708	43%
2031	1,308	77%	875	52%
2032	-	-	721	42%

Source: Schedule 7.1

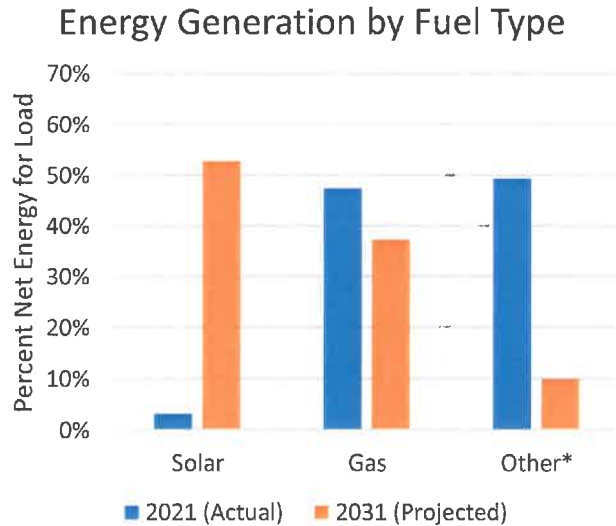
## Winter Reserve Margins

Year	2022 TYSP		2023 TYSP	
	Reserve Margin (MW)	Reserve Margin (% of Peak)	Reserve Margin (MW)	Reserve Margin (% of Peak)
21/22	397	33%	-	-
22/23	354	28%	566	47%
23/24	333	26%	595	51%
24/25	412	31%	688	57%
25/26	631	47%	685	56%
26/27	669	49%	773	61%
27/28	662	47%	748	58%
28/29	681	47%	722	55%
29/30	649	44%	697	52%
30/31	766	51%	767	55%
31/32	-	-	541	38%

Source: Schedule 7.2



## 2022 TYSP

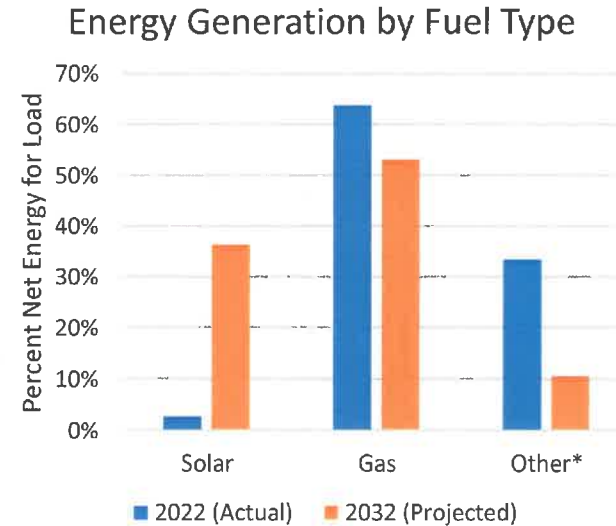


\* "Other" for "2021 (Actual)" Includes Coal, Nuclear, and Landfill Gas

\* "Other" for "2031 (Projected)" includes Nuclear and Landfill Gas

Source: Schedule 6.2

## 2023 TYSP



\* "Other" for "2022 (Actual)" Includes Coal, Nuclear, and Landfill Gas

\* "Other" for "2032 (Projected)" includes Nuclear and Landfill Gas

- OUC is on track to meet our Net-Zero CO<sub>2</sub> Goals, including 2030 target of 50% Reduction from 2005 levels
- OUC will maintain superior service reliability
  - Reserve margins more than satisfy minimum requirements
  - Ensure meeting Net-Zero goals while facilitating integration of solar and energy storage
- OUC will maintain planning flexibility
  - To take advantage of projected cost reductions and technology improvements
- OUC planning will ensure that our customers receive clean, reliable service at the lowest reasonable cost