



Navid Nowakhtar
Business Development and Resource Planner

Florida Public Service Commission
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Re: Ten-Year Site Plan Supplemental Data Request #2 – FMPA Response

May 2, 2022

Dear Donald and Takira:

Pursuant to the Commission's 2022 Ten-Year Site Plan Supplemental Data Request #2, dated April 11, 2022, FMPA is hereby filing one electronic copy of its Response.

Please do not hesitate to contact me at (321) 239-1028 if you have any questions.

Sincerely,

Navid Nowakhtar
1D5F5710E3CE1B425A2E80BB7197467A readysign

Navid Nowakhtar
Resource and Strategic Planning Manager

Enc.

cc. File

Staff's Data Request #2

1. Please refer to NERC's Level 2 Alert, issued August 18, 2021, titled Cold Weather Preparations for Extreme Weather Events. Please indicate what changes, if any, the Utility has implemented or intends to implement to address the recommendations contained within the alert.

FMPA's All-Requirements Project load falls within the FMPP BA. FMPA coordinates with FMPP on operational and situational awareness that aligns with the referenced NERC Alert from August 18th, 2021, Recommendations #1-#5.

With respect to "changes [FMPA] has implemented or plans to implement", FMPA has allocated a budget for expenditures needed to complete weatherization on our natural gas units as deemed necessary. This includes items such as heat tracing, insulating critical fuel and water piping, and protections for certain measurement equipment. FMPA intends to continue to maintain dual fuel capabilities and natural gas reserves into the future to support reliable operations. As noted in our response to PSC Supplemental Data Request #1 for the 2022 TYSP Question #93, FMPA has conducted sensitivity cases designed to stress the generation stack with a number of different scenarios, so that we can study fleet response. This process provides insight into what different supply side and demand side factors could limit our production, so that proactive preparations can be made ahead of any extreme event.

Additionally, FMPP is considering increasing the frequency with which desktop load shed training exercises are conducted to continue to support situational awareness and communication protocols to minimize the duration and unintended consequences of such potential events.

2. Please refer to FERC Order Approving Cold Weather Reliability Standards, issued August 24, 2021. Please indicate what changes, if any, the Utility has implemented or intends to implement to address the revisions to the NERC Reliability Standards that become effective April 2023.

Please refer to our response to Question #1. FMPA will work with the FMPP BA, our internal Regulatory Compliance team, our generation operating Members, and all relevant parties to ensure continual compliance with all NERC Reliability Standards.

3. Please refer to NERC's Project 2021-07: Extreme Cold Weather Grid Operations, Preparedness, and Coordination. Is the Utility a participant in this project? If so, please explain what way.

FMPA monitors all ongoing NERC efforts as part of our internal Regulatory Compliance function. FMPA is not a direct participant in this project, but we are monitoring the process in anticipation of any additional impacts late in 2022 and into 2023.

4. Please refer to the FERC, NERC, and Regional Entity Staff Report: The February 2021 Cold Weather Outages in Texas and the South Central United States (2021 Cold Weather Report), issued November 2021. Please indicate what changes, if any, the Utility has implemented or intends to implement to address the recommended revisions listed below to the NERC Reliability Standards identified in the 2021 Cold Weather Report.

Please refer to our responses to Questions #1-#3 above.

- a. Identify and protect cold-weather critical components.
 - b. Build all new and retrofit existing units to operate during extreme weather conditions, which include the impact of wind and precipitation.
 - c. Perform annual training on winterization plans. If already incorporated, please provide the most recent winterization plan.
 - d. Develop Corrective Action Plans for any affected generating units.
 - e. Provide the balancing authority the percentage of generating capacity that can be relied upon during forecasted cold weather.
 - f. Account for wind and precipitation when providing temperature data to the balancing authority.
5. Will the Utility's current capacity shortage plan require updating following the revisions to the NERC Reliability Standards that will go into effect April 2023 or the recommended revisions from the 2021 Cold Weather Report? If so, please identify the changes.

FMPA does not currently expect any changes will be needed to its capacity shortage plan. As noted above in our response to Question #2, FMPA will work with the FMPP BA, our internal Regulatory Compliance team, our generation operating Members, and all relevant parties to ensure continual compliance with all NERC Reliability Standards.

6. For your generating units, please and provide the following information:

With respect to generating units where FMPA holds a minority ownership interest as described in our response to Question #9 below, we defer to the majority owner as noted in each case for a response.

With respect to FMPA's wholly owned generation, please see responses by item below.

- a. Identify any generating unit that has been winterized and describe the winterization activities that have been completed for each. FMPA has included winterization activities in our All-Requirements Project budget for specific units as described in item b below.
- b. Identify any generating unit that still requires winterization and describe the winterization activities to be completed for each. FMPA plans to refurbish existing heat tracing for Cane Island units 1-3. Cane Island 4 and Treasure Coast will need a full heat tracing system installed. Cane Island Unit 2 is slated for a Hot Gas Path inspection in February of 2023.

- c. Identify any generating units the Utility does not intend to winterize and explain why. FMPA has not made any definitive determinations in this regard pending the review of all applicable and potentially forthcoming NERC Reliability Standards.

7. Please list and describe all winterization activities the Utility has completed or intends to complete for its natural gas infrastructure. If none, please explain why.

The All-Requirements Project holds firm natural gas transportation capacity to support reliable gas delivery to our wholly owned generating plants. However, FMPA as agent for the All-Requirements Project does not control or direct winterization activities related to gas pipelines or laterals that may be used to transport gas to our facilities. We defer to the owners of such infrastructure for this response.

8. Please identify any generating units that have experienced forced outages or derates due to cold weather conditions within the last ten-year period.

FMPA has not experienced any forced outages or derates due to cold weather conditions within the last ten-year period.

- a. Please explain if these generating units have had corrective action plans developed for the identified equipment. If so, what has been done to evaluate whether the corrective action plan applies to similar equipment for other generating units in the Utility's generating fleet.

9. Please identify each of the Utility's generating units that have dual fuel capabilities. As part of this response, please provide the following for each applicable generating unit.

Data for parts a, b, and d (with the exception of location) can be found in Schedule 1 of FMPA's 2022 TYSP as filed. FMPA's ARP fleet that would be relevant to dual fuel or back-up resource capabilities is located in either (i) Orlando (OUC Stanton Energy Center), (ii) Ft. Pierce (Treasure Coast Energy Center), (iii) Kissimmee (Cane Island Power Park), or (iv) Key West, FL. We also have power purchase agreements for solar resources across portions of north FL as well as a partial ownership share of the St. Lucie #2 nuclear facility, neither of which are relevant to dual fuel capability.

FMPA's dual fuel capability is partially housed within generators for which we have a minority interest as operated by OUC, or for which we have a power purchase agreement with Nextera. We defer to the primary operators of such resources with respect to responses for those generating units.

With respect to FMPA's wholly owned resources, natural gas is the primary fuel in all cases and fuel oil is the secondary fuel in all cases. We do not assume any derates for alternative fuels. Based on current inventory levels, we estimate that the dual-fuel fleet could run at full load as follows: at Cane Island, utilizing units 1 and 2, we have

approximately 4.5 days. At TCEC, there is 1.5 days of inventory. As part of the winterization plan, the fuel inventory will be increased and be able to achieve 2.7 days, with switching capability, from gas to fuel oil, being accomplished within minutes. This assumes no replenishment of fuel oil, which could extend run times. FMPP also maintains an inventory of fuel oil at Stock Island to support emergency or reserve period run requirements.

- a. Generating unit name and location.
 - b. Net capacity by seasonal peak (Summer/Winter).
 - c. Whether fuel switching derates/uprates the unit (and if so, by what amount).
 - d. Primary and secondary fuel type and sources.
 - e. Number of days the generating unit could operate at full load using the secondary fuel source.
 - f. Amount of time required to switch to secondary fuel.
10. Please identify how many alerts and advisories, due to cold weather, have been issued within the last ten-year period, and describe each event that lead to the issuance of each alert/advisory.
- a. As part of this response, please indicate whether interruptible/curtailable customers were interrupted during each event, and if so, the duration of the interruption.

FMPP is not aware of any cold weather advisories within the FMPP BA over the period in question.

11. Please identify the number of times the Utility has had to perform rolling blackouts within the last ten-year period. As part of this response, please provide the reason for each rolling blackout, how many megawatts were impacted, and the duration of each rolling blackout.

There have been no such instances in the last ten-year period.

12. Please identify the total number of megawatts that can be controlled during rolling blackouts. As part of this response, please describe how this amount was determined, the priorities for interrupting firm load, and provide the anticipated duration between rolling blackouts.

The FMPP BA load shed schemes are predicated on a combination of (i) individual load-serving entities within the BA that have the capability to shed firm load and (ii) a load ratio share of shedding for BA Members that would occur under EEA BA conditions on an incremental basis, after all other relevant activities to avoid a load shed event have been exhausted and the FRCC RC has called the appropriate EEA event on behalf of the BA. The FMPP BA does not have access to demand response that is currently assumed to be under the BA's control as a mitigant to such activities.

The duration between load shed events is a function of the underlying grid constraint or constraints that drove the need to institute load shed and is highly variable in nature. It is not possible to provide a specific duration cap without first defining the initial conditions (e.g., forced outage, significant disruption to power infrastructure, extreme weather that may persist). FMPP has developed desktop load shed schemes that attempt to reduce negative externalities associated with curtailments.

13. Please explain how the Utility coordinates with cogenerators, qualifying facilities, and other non-utility generators during cold weather events to maximize generating capacity. As part of this response, please explain how the Utility determines as-available energy prices if all available Utility assets are already dispatched.

FMPPA and the FMPP BA do not plan for such generation as firm to grid capacity under any conditions. Certain qualifying facilities that may generate in such conditions would be treated in accordance with all relevant regulatory requirements (e.g., PURPA).

14. Please list each form of communication (such as phone calls, text, utility website, social media, etc.) the Utility uses to inform customers of anticipated cold weather events. As part of this response, please provide a sample of such communications.

FMPPA’s ARP is a wholesale power supply project, and as such, FMPPA does not communicate directly with retail customers in this context.

15. Please refer to the Florida cold weather event from January 29-31, 2022, and provide the following for each day during the event.

The table below summarizes items a-c by day for the FMPP Balancing Authority, which includes the combined generation and load obligations of FMPPA, Lakeland Electric, and Orlando Utilities Commission. Items d-f do not apply/were not experienced.

Date	Projected Peak (MW)	Projected Op. Reserve (MW)	Actual Peak (MW)	Actual Op. Reserve (MW)
1/29/22	3,085	1,232	2,685	1,632
1/30/22	3,475	884	3,138	1,221
1/31/22	3,260	1,043	3,163	1,140

- a. Anticipated load forecast.
- b. Anticipated operating reserve (with and without demand response).
- c. Actual load, and if available, actual operating reserve.
- d. Amount of customer outages due to cold weather that occurred, if any.

- e. Amount of generating capacity derated or forced offline due to cold weather, if any. If forced outages occurred, identify each generating unit derated or forced offline, and the cause of the derating or forced outage, if known.
- f. Whether demand response and/or interruptible/curtailable assets were activated. If so, please identify which programs, the number of customers interrupted, the amount of capacity interrupted, and the frequency of interruptions.

16. Please refer to the Florida cold weather event from January 29-31, 2022. Please explain if any winterization plans were enacted during this time. If so, please describe what activities were involved.

In January 2022, cold temperatures necessitated significant coordination and preparation across the BA. Winter loads and temperatures were projected to be at or potentially above the 99th percentile of historical occurrences. The external market was also very tight, with only one offer available to the BA from out of state. FMPA worked with FMPP to effectuate the following actions as would be typical of any such situation:

- o Members implemented Cold Weather Plans.
- o Transmission teams restored / postponed outages where possible.
- o Unit cycling was minimized to lower freezing / restart risk. Stock Island's emergency generation was staffed Saturday through Monday morning.
- o Teams reviewed readiness, risks, and worst-case scenarios
 - Scenarios included load at +10% of forecast, large coal-fired unit trip, and large combined cycle trip. These scenarios helped to manage mitigation, primarily around fuels, to the extent such a scenario occurred.
- o Coordination calls took place each day across the weekend with additional staffing in place. The BA's forecasting team also engaged in monitoring and reforecasting and/or recommitting as needed.

17. Please refer to the NERC 2021-2022 Winter Reliability Assessment, issued November 2021, for the following questions. Please provide load forecast and generation availability data provided to your regional entity for use in NERC's winter reliability assessment. As part of your response, explain how the data was derived and what assumptions were used.

Based on our understanding of the regional entity procedure deployed in preparation of the 2021-2022 Winter Reliability Assessment, the data leveraged would be consistent with FMPA's 2021 Load and Resource Database entries, as filed with the FRCC. This filing would be consistent with the data supporting the 2021 Ten-Year Site Plan as filed in April 2021. As appended herein, we have included as part of our PDF Response the extracted data warehouse of that vintage that is consistent with the Load and Resource Database. See Appendix A.

18. **[TECO & FPL Only]** Please identify and describe any actions undertaken to encourage adoption of natural gas heating over electric resistance (strip) heating. If no actions have been taken, please explain why.

This question does not apply to FMPA.

Staff's Data Request #2

Appendix A

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 1.0

Existing Generating Facilities
As of December 31, 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Load Flow Model Identification				Owning Entity	Operating Entity	Plant Name	Unit No	Location (County)	Unit Type	Owner-ship	Primary Fuel		Alternate Fuel		Alt. Fuel Storage (Days Burn)	Comm'l In-service Mo / Year	Retirement Date Mo / Year	Nameplate Capacity (MW)	Gross Capability (MW)		Net Capability (MW)		Unit Status	Notes
Model Bus No	Model Unit No	EIA Plant Code	EIA Op Gen Code								Fuel Type	Transp. Method	Fuel Type	Transp. Method					Summer	Winter	Summer	Winter		
5412	1	7238	1	FMPA	KUA	CANE ISLAND	1GT	OSCEOLA	GT	J	NG	PL	DFO	TK	0	11/1994		21	17.5	19	17.5	19	OP	
5413	1	7238	2	FMPA	KUA	CANE ISLAND	2CT	OSCEOLA	CT	J	NG	PL	DFO	TK	0	6/1995		38	35.5	37.5	34.5	36.5	OP	
5420	1	7238	2A	FMPA	KUA	CANE ISLAND	2CW	OSCEOLA	CA	J	WH	NA	DFO	NA	0	6/1995		22	22	22	20	20	OP	
5414	1	7238	3	FMPA	KUA	CANE ISLAND	3CT	OSCEOLA	CT	J	NG	PL			0	1/2002		78.1	77	81	75	79	OP	
5421	1	7238	3A	FMPA	KUA	CANE ISLAND	3CW	OSCEOLA	CA	J	WH	NA	DFO	NA	0	1/2002		46.9	47.5	48.5	45	46	OP	
5415	1	7238	4	FMPA	FMPA	CANE ISLAND	4CT	OSCEOLA	CT	U	NG	PL			0	7/2011		186.7	154	159	150	155	OP	
5422	1	7238	4A	FMPA	FMPA	CANE ISLAND	4CW	OSCEOLA	CA	U	WH	NA			0	7/2011		163	153	158	150	155	OP	
5535	1	683	A	FMPA	OUC	INDIAN RIVER	A	BREVARD	GT	J	NG	PL	DFO	TK	0	7/1989		17.1	14.2	18	12.2	14.1	OP	Net and Gross Capacity decreased by 4.5/6, already counted by KUA - updated by FRCC 5/8/14
5548	1	683	B	FMPA	OUC	INDIAN RIVER	B	BREVARD	GT	J	NG	PL	DFO	TK	0	7/1989		17.2	14.2	18	12.2	14.1	OP	
5536	1	683	C	FMPA	OUC	INDIAN RIVER	C	BREVARD	GT	J	NG	PL	DFO	TK	0	8/1992		27.5	22.3	26.2	21.6	23	OP	
5549	1	683	D	FMPA	OUC	INDIAN RIVER	D	BREVARD	GT	J	NG	PL	DFO	TK	0	8/1992		27.5	22.3	26.2	21.6	23	OP	
200	1	6045	2	FMPA	FPL	ST. LUCIE	2	ST. LUCIE	ST	J	NUC	TK	NA	NA	0	6/1983		94.4	86.2	89.6	86.2	89.6	OP	
5534	1	564	1	FMPA	OUC	STANTON	1	ORANGE	ST	J	BIT	RR	NA	NA	0	7/1987		122.7	121.1	121.1	120	120	OP	
5537	1	564	2	FMPA	OUC	STANTON	2	ORANGE	ST	J	BIT	RR	NA	NA	0	6/1996		131.5	129.9	129.9	128.7	128.7	OP	
5539	1	564	CC1	FMPA	OUC	STANTON A	CT	ORANGE	CT	J	NG	PL	DFO	TK	3	10/2003		12.6	11.6	13.1	11.6	13.1	OP	
5538	1	564	CC1	FMPA	OUC	STANTON A	ST	ORANGE	CA	J	WH	PL	DFO	TK	3	10/2003		11.2	10.3	10.4	10.3	10.4	OP	Winter value adjusted to 15 to match FMPP values and TYSP
5344	1	6584	GT2	FMPA	KEY	STOCK ISLAND	CT2	MONROE	GT	U	DFO	WA			0	9/1999		19.7	15.9	15.9	15.9	15.9	OP	
5345	1	6584	GT3	FMPA	KEY	STOCK ISLAND	CT3	MONROE	GT	U	DFO	WA			0	9/1999		19.7	14.1	14.1	14.1	14.1	OP	
5347	1	6584	GT4	FMPA	KEY	STOCK ISLAND	CT4	MONROE	GT	U	DFO	WA	NA	NA	0	6/2006		61.2	46	46	46	46	OP	
4060	1	56400	1	FMPA	FMPA	TREASURE COAST ENERGY CTR	1	ST. LUCIE	CT	U	NG	PL	DFO	TK	0	6/2008		186.7	154	159	150	155	OP	
4061	1	56400	1A	FMPA	FMPA	TREASURE COAST ENERGY CTR	1	ST. LUCIE	CA	U	WH	NA	DFO	RR	0	6/2008		163	153	158	150	155	OP	
																					1292.4	1332.5		

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 1.0a & 1.1

Planned and Prospective Generating Facilities Additions and Changes
January 1, 2021 through December 31, 2030

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
Load Flow Model Identification				Owning Entity	Operating Entity	Plant Name	Unit No	Location (County)	Unit Type	Ownership	Primary Fuel		Alternate Fuel		Alt. Fuel Storage (Days Burn)	Construct. Start Date Mo / Year	Effective Change Mo / Year	Nameplate Capacity (MW)	Gross Capability (MW)		Net Capability (MW)		Unit Status	Change Type	Summer Applied	Winter Applied	Notes
Model Bus No	Model Unit No	EIA Plant Code	EIA Op Gen Code								Fuel Type	Transp. Method	Fuel Type	Transp. Method					Summer	Winter	Summer	Winter					
4060	1	56400	1	FMPA	FMPA	TREASURE COAST ENERGY CTR	1	ST LUCIE	CT	U	NG	PL	DFO	TK	0		1/2022	0	7.5	7.5	7.5	7.5	OP	OT	2022	21/22	
4061	1	56400	1A	FMPA	FMPA	TREASURE COAST ENERGY CTR	1	ST LUCIE	CA	U	WH	NA	DFO	RR	0		1/2022	0	7.5	7.5	7.5	7.5	OP	OT	2022	21/22	
5537	1	564	2	FMPA	OUC	STANTON	2	ORANGE	CT	J	NG	PL	NA	NA	0		1/2024	0	0	0	0	0	OP	FC	2024	23/24	Conversion from coal to natural gas.
5415	1	7238	4	FMPA	FMPA	CANE ISLAND	4CT	OSCEOLA	CT	U	NG	PL	NA	NA	0		1/2026	0	7.5	7.5	7.5	7.5	OP	OT	2026	25/26	
5422	1	7238	4A	FMPA	FMPA	CANE ISLAND	4CW	OSCEOLA	CA	U	WH	NA	NA	NA	0		1/2026	0	7.5	7.5	7.5	7.5	OP	OT	2026	25/26	
5534	1	564	1	FMPA	OUC	STANTON	1	ORANGE	CT	J	NG	PL	NA	NA	0		1/2026	0	0	0	0	0	OP	FC	2026	25/26	Expected conversion from coal to natural gas.
200	1	6045	2	FMPA	FPL	ST. LUCIE	2	ST LUCIE	ST	J	NUC	TK	NA	NA	0		10/2027	0	-0.3	-0.3	-0.3	-0.3	OP	OT	2028	27/28	Ownership Change
200	1	6045	2	FMPA	FPL	ST. LUCIE	2	ST LUCIE	ST	J	NUC	TK	NA	NA	0		10/2029	0	-1.5	-1.6	-1.5	-1.6	OP	OT	2030	29/30	Ownership change

2021 Load and Resource Database
 Florida Municipal Power Agency
 FRCC Form 3.0
 Existing Non-Utility, QF, and Self Service Generation Facilities
 As of December 31, 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
Load Flow Model Identification				Owning Entity	Operating Entity	Plant Name	Unit No	Location (County)	Unit Type	Ownership	Fuel Type		Comm'l In-service Mo / Year	Retirement Date Mo / Year	Nameplate Capacity (MW)	Gross Capability (MW)		Net Capability (MW)		Potential Export to Grid at Time of Peak (MW)				Unit Status	Contract Status	Notes
Model Bus No	Model Unit No	EIA Plant Code	EIA Op Gen Code								Pri	Alt				Summer	Winter	Summer	Winter	Firm Summer	Firm Winter	Uncomm Summer	Uncomm Winter			
				FMPA		CUTRALE		LAKE	CC	COG	NG	12/1987				4.6	4.6	4.6	4.6	0	0	0	0			
				FMPA		US SUGAR CORPORATION		HENDRY	OT	SPP	OBS	2/1984				26.5	26.5	26.5	26.5	0	0	0	0			NC
																				0	0	0	0			
																				0	0	0	0			

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 4.0

History and Forecast of Energy Consumption and Number of Customer by Customer Class
As of January 1, 2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Year	Population	RURAL & RESIDENTIAL			COMMERCIAL			INDUSTRIAL			Street & Highway GWh	Other Sales GWh	Total Sales GWh	Wholesale Purchases for Resale	Wholesale Sales for Resale	Utility Use & Losses GWh	Net Energy for Load GWh
		GWh	Average Number of Customers	Average Consumption Per Customer (kWh)	GWh	Average Number of Customers	Average Consumption Per Customer (kWh)	GWh	Average Number of Customers	Average Consumption Per Customer (kWh)				GWh	GWh		
2011	0	2,850	222,304	12,820	2,252	39,127	57,556	542	1,010	536,634	68	102	5,814	0	105	208	6,127
2012	0	2,724	224,779	12,119	2,778	40,185	69,130	3	1	3,000,000	60	104	5,669	0	96	295	6,060
2013	0	2,755	226,862	12,144	2,771	40,403	68,584	2	1	2,000,000	60	101	5,689	0	92	309	6,090
2014	0	2,614	207,883	12,574	2,574	37,780	68,131	3	1	3,000,000	55	107	5,353	0	91	334	5,778
2015	0	2,771	210,984	13,134	2,680	38,337	69,906	2	1	2,000,000	55	109	5,617	0	88	337	6,042
2016	0	2,844	214,417	13,264	2,711	39,010	69,495	2	1	2,000,000	55	109	5,721	0	0	318	6,039
2017	0	2,791	218,399	12,779	2,675	39,300	68,066	2	1	2,000,000	56	106	5,630	0	0	354	5,984
2018	0	2,899	221,799	13,070	2,707	39,347	68,798	1	1	1,000,000	56	107	5,770	0	12	357	6,139
2019	0	2,965	226,405	13,096	2,721	39,695	68,548	2	1	2,000,000	56	98	5,842	0	100	348	6,290
2020	0	3,100	230,855	13,428	2,626	40,262	65,223	1	1	1,000,000	56	94	5,877	0	389	372	6,638
2021	0	3,075	234,696	13,102	2,672	40,668	65,703	1	1	1,000,000	56	95	5,899	0	797	347	7,043
2022	0	3,115	237,955	13,091	2,718	41,019	66,262	1	1	1,000,000	56	95	5,985	0	733	346	7,064
2023	0	3,138	241,094	13,016	2,770	41,351	66,987	1	1	1,000,000	56	95	6,060	0	740	343	7,143
2024	0	3,159	244,170	12,938	2,827	41,673	67,838	1	1	1,000,000	56	96	6,139	0	371	355	6,865
2025	0	3,188	247,199	12,896	2,871	41,989	68,375	1	1	1,000,000	56	97	6,213	0	460	333	7,006
2026	0	3,220	250,137	12,873	2,904	42,299	68,654	1	1	1,000,000	56	98	6,279	0	463	324	7,066
2027	0	3,256	253,000	12,870	2,932	42,602	68,823	1	1	1,000,000	56	98	6,343	0	379	311	7,033
2028	0	3,296	255,849	12,883	2,958	42,899	68,953	1	1	1,000,000	56	99	6,410	0	0	308	6,718
2029	0	3,337	258,672	12,901	2,984	43,192	69,087	1	1	1,000,000	56	99	6,477	0	0	270	6,747
2030	0	3,381	261,468	12,931	3,009	43,481	69,203	1	1	1,000,000	56	100	6,547	0	0	224	6,771

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 8.0

Peak Demand (MW) and Net Energy For Load (GWh) by Month
As of January 1, 2021

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17)

Prior Year/Reporting Year ACTUAL Peak Demand & NEL	2020 Actual												2020 Peaks & Annual NEL	2021 Actual	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	
(1a) Total Peak Hour Demand (MW)	1,165	957	1,112	1,106	1,244	1,399	1,380	1,406	1,463	1,232	966	1,129	1,463	1,020	1,351
(2a) Interruptible Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(3a) Residential Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(4a) Comm/Ind Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(5a) QF Load Served by QF Gen at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6a) Actual Peak Hour Demand (MW)	1,165	957	1,112	1,106	1,244	1,399	1,380	1,406	1,463	1,232	966	1,129	1,463	1,020	1,351
(6a1) Date of Peak (mm/dd)	1/22	2/13	3/30	4/13	5/22	6/29	7/16	8/4	9/4	10/8	11/1	12/26	9/4	1/19	2/4
(6a2) Time of Peak (Hour Ending)	8:00	17:00	17:00	16:00	17:00	16:00	17:00	16:00	16:00	16:00	14:00	9:00	16:00	8:00	8:00
(7a) Actual Net Energy for Load (GWh)	463	438	506	488	550	631	683	693	630	593	475	488	6,638	493	483

Reporting Year Forecasted Peak Demand & NEL	2021 Forecast												2021 Peaks & Annual NEL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual NEL
(1b) Total Peak Hour Demand (MW)	1,420	1,315	1,060	1,190	1,347	1,437	1,435	1,481	1,390	1,278	1,045	1,000	1,481
(2b) Interruptible Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(3b) Residential Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(4b) Comm/Ind Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(5b) QF Load Served by QF Gen at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(6b) Peak Hour Demand (MW)	1,420	1,315	1,060	1,190	1,347	1,437	1,435	1,481	1,390	1,278	1,045	1,000	1,481
(7b) Net Energy for Load (GWh)	567	499	501	517	613	665	718	722	660	586	482	511	7,041

Year 1 Forecasted Peak Demand & NEL	2022 Forecast												2022 Peaks & Annual NEL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual NEL
(1c) Total Peak Hour Demand (MW)	1,292	1,185	1,077	1,205	1,364	1,455	1,452	1,500	1,407	1,295	1,057	1,012	1,500
(2c) Interruptible Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(3c) Residential Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(4c) Comm/Ind Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(5c) QF Load Served by QF Gen at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(6c) Peak Hour Demand (MW)	1,292	1,185	1,077	1,205	1,364	1,455	1,452	1,500	1,407	1,295	1,057	1,012	1,500
(7c) Net Energy for Load (GWh)	538	473	510	524	621	673	726	731	668	593	487	518	7,062

Year 2 Forecasted Peak Demand & NEL	2023 Forecast												2023 Peaks & Annual NEL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual NEL
(1d) Total Peak Hour Demand (MW)	1,308	1,199	1,090	1,219	1,381	1,471	1,469	1,517	1,423	1,310	1,070	1,025	1,517
(2d) Interruptible Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(3d) Residential Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(4d) Comm/Ind Load Management Implemented at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(5d) QF Load Served by QF Gen at Peak (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0
(6d) Peak Hour Demand (MW)	1,308	1,199	1,090	1,219	1,381	1,471	1,469	1,517	1,423	1,310	1,070	1,025	1,517
(7d) Net Energy for Load (GWh)	544	479	515	529	628	681	735	740	676	600	493	524	7,144

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 9.0

Fuel Requirements
As of January 1, 2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Fuel Requirements			Units	Actual	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
				2020										
(1)	NUCLEAR		TRILLION BTU	5	4	4	4	4	4	4	4	4	4	4
(2)	COAL		1000 TON	434	315	314	288	144	136	0	0	0	0	0
RESIDUAL														
(3)	STEAM		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
(4)	CC		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
(5)	CT		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
(6)	TOTAL:		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
DISTILLATE														
(7)	STEAM		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
(8)	CC		1000 BBL	0	0	0	0	0	0	0	0	0	0	0
(9)	CT		1000 BBL	7	0	0	1	1	2	1	2	1	3	4
(10)	TOTAL:		1000 BBL	7	0	0	1	1	2	1	2	1	3	4
NATURAL GAS														
(11)	STEAM		1000 MCF	1,081	430	429	393	2,270	1,969	4,315	4,522	4,436	4,523	4,576
(12)	CC		1000 MCF	39,194	42,708	42,571	43,842	38,019	39,248	40,569	40,236	38,035	38,120	38,358
(13)	CT		1000 MCF	544	161	221	208	199	226	243	354	237	303	393
(14)	TOTAL:		1000 MCF	40,819	43,299	43,221	44,443	40,488	41,443	45,127	45,112	42,708	42,946	43,327
(15)	OTHER (SPECIFY)			578	387	386	377	355	348	336	339	337	339	340

2021 Load and Resource Database
 Florida Municipal Power Agency
 FRCC Form 9.1
Energy Sources (GWh)
 As of January 1, 2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Energy Sources		Units	Actual 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
(1)	ANNUAL FIRM INTER-REGION INTERCHANG	GWH	0	0	0	0	0	0	0	0	0	0	0	0
(2)	NUCLEAR	GWH	413	390	405	405	392	405	405	389	404	399	376	
(3)	COAL	GWH	924	726	720	651	306	285	0	0	0	0	0	
RESIDUAL														
(4)	STEAM	GWH	0	0	0	0	0	0	0	0	0	0	0	
(5)	CC	GWH	0	0	0	0	0	0	0	0	0	0	0	
(6)	CT	GWH	0	0	0	0	0	0	0	0	0	0	0	
(7)	TOTAL:	GWH	0	0	0	0	0	0	0	0	0	0	0	
DISTILLATE														
(8)	STEAM	GWH	0	0	0	0	0	0	0	0	0	0	0	
(9)	CC	GWH	0	0	0	0	0	0	0	0	0	0	0	
(10)	CT	GWH	3	0	0	1	0	1	0	1	0	1	1	
(11)	TOTAL:	GWH	3	0	0	1	0	1	0	1	0	1	1	
NATURAL GAS														
(12)	STEAM	GWH	105	43	42	38	199	171	375	393	385	394	402	
(13)	CC	GWH	5,034	5,714	5,722	5,877	5,468	5,647	5,788	5,745	5,435	5,454	5,488	
(14)	CT	GWH	50	14	19	17	17	18	20	28	19	24	31	
(15)	TOTAL:	GWH	5,189	5,771	5,783	5,932	5,684	5,836	6,183	6,166	5,839	5,872	5,921	
(16)	NUG	GWH	0	0	0	0	0	0	0	0	0	0	0	
RENEWABLES														
(17)	BIOFUELS	GWH	39	27	27	27	27	27	27	27	27	27	27	
(18)	BIOMASS	GWH	0	0	0	0	0	0	0	0	0	0	0	
(19)	GEOTHERMAL	GWH	0	0	0	0	0	0	0	0	0	0	0	
(20)	HYDRO	GWH	0	0	0	0	0	0	0	0	0	0	0	
(21)	LANDFILL GAS	GWH	18	11	11	10	7	7	5	6	6	6	6	
(22)	MSW	GWH	0	0	0	0	0	0	0	0	0	0	0	
(23)	SOLAR	GWH	51	118	118	117	450	447	445	444	443	443	440	
(24)	WIND	GWH	0	0	0	0	0	0	0	0	0	0	0	
(25)	OTHER RENEWABLE	GWH	0	0	0	0	0	0	0	0	0	0	0	
	TOTAL:	GWH	108	156	156	154	484	481	477	477	476	476	473	
(26)	OTHER (SPECIFY) 0	GWH	0	0	0	0	0	0	0	0	0	0	0	
(27)	NET ENERGY FOR LOAD	GWH	6,637	7,043	7,064	7,143	6,866	7,008	7,065	7,033	6,719	6,748	6,771	

2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 10

Forecast of Capacity, Demand, and Reserve Margin
At Time of SUMMER Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Year	Installed Capacity (MW)	Firm Imports (MW)	Firm Exports (MW)	Firm NUGs (MW)	Firm Contracts (MW)	Total Avail Capacity (MW)	Total Peak Demand (MW)	RM w/o Exercising LM/INT		Net Firm Peak Demand (MW)	RM w/ Exercising LM/INT	
								(MW)	% of Peak		(MW)	% of Peak
2021	1,292	0	0	0	455	1,747	1,481	266	18.0%	1,481	266	18.0%
2022	1,307	0	0	0	455	1,762	1,500	262	17.5%	1,500	262	17.5%
2023	1,307	0	0	0	455	1,762	1,517	245	16.2%	1,517	245	16.2%
2024	1,307	0	0	0	419	1,726	1,459	267	18.3%	1,459	267	18.3%
2025	1,307	0	0	0	419	1,726	1,483	243	16.4%	1,483	243	16.4%
2026	1,322	0	0	0	419	1,741	1,496	245	16.4%	1,496	245	16.4%
2027	1,322	0	0	0	418	1,741	1,495	246	16.4%	1,495	246	16.4%
2028	1,322	0	0	0	303	1,625	1,412	213	15.1%	1,412	213	15.1%
2029	1,322	0	0	0	317	1,639	1,424	215	15.1%	1,424	215	15.1%
2030	1,321	0	0	0	323	1,643	1,428	215	15.1%	1,428	215	15.1%

Forecast of Capacity, Demand, and Reserve Margin
At Time of WINTER Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Year	Installed Capacity (MW)	Firm Imports (MW)	Firm Exports (MW)	Firm NUGs (MW)	Firm Contracts (MW)	Total Avail Capacity (MW)	Total Peak Demand (MW)	RM w/o Exercising LM/INT		Net Firm Peak Demand (MW)	RM w/ Exercising LM/INT	
								(MW)	% of Peak		(MW)	% of Peak
2021/22	1,348	0	0	0	473	1,820	1,292	528	40.9%	1,292	528	40.9%
2022/23	1,348	0	0	0	473	1,820	1,308	512	39.2%	1,308	512	39.2%
2023/24	1,348	0	0	0	386	1,733	1,262	471	37.4%	1,262	471	37.4%
2024/25	1,348	0	0	0	386	1,733	1,287	446	34.7%	1,287	446	34.7%
2025/26	1,363	0	0	0	386	1,748	1,301	447	34.4%	1,301	447	34.4%
2026/27	1,363	0	0	0	386	1,748	1,301	447	34.4%	1,301	447	34.4%
2027/28	1,362	0	0	0	206	1,568	1,226	342	27.9%	1,226	342	27.9%
2028/29	1,362	0	0	0	206	1,568	1,239	329	26.6%	1,239	329	26.6%
2029/30	1,361	0	0	0	206	1,566	1,243	323	26.0%	1,243	323	26.0%
2030/31	1,361	0	0	0	206	1,566	1,256	310	24.7%	1,256	310	24.7%

2021 Load and Resource Database
 Florida Municipal Power Agency
 FRCC Form 11

Contracted Firm Imports and Firm Exports
 From/To Outside the FRCC Region at Time of Peak (MW)
 As of January 1, 2021

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)

SUMMER Imports/Exports					SUMMER Net Interchange
Year	Suppliers (Imports)	Total Imports	Purchasers (Exports)	Total Exports	
2021		0		0	0
2022		0		0	0
2023		0		0	0
2024		0		0	0
2025		0		0	0
2026		0		0	0
2027		0		0	0
2028		0		0	0
2029		0		0	0
2030		0		0	0

WINTER Imports/ Exports					WINTER Net Interchange
Year	Suppliers (Imports)	Total Imports	Purchasers (Exports)	Total Exports	
2021/22		0		0	0
2022/23		0		0	0
2023/24		0		0	0
2024/25		0		0	0
2025/26		0		0	0
2026/27		0		0	0
2027/28		0		0	0
2028/29		0		0	0
2029/30		0		0	0
2030/31		0		0	0

As of December 31, 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	
Load Flow Model ID (if applicable)				Purchasing Entity	Selling Entity	Plant Name or Contract Name	Unit Type	Fuel Type		Contract Term		Nameplate Capability (MW)	Net Capability (MW)		Firm Cap (MW)		Counted as a NUG in Form 3?	Counted as an Import in Form 11?	Counted as an Export in Form 11?	Description	Submitting Entity EIA Code	
Model Bus No	Model Unit No	EIA Plant Code	EIA Op Gen Code					Pri	Alt	From (mm/dd/yyyy)	To (mm/dd/yyyy)		Summer	Winter	Summer	Winter						
200	1	0		ALACHUA	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	0.4	0.4	0.4	0.4	x				Entitlement Share of St. Lucie Project (St. Lucie #2)	6567
200	1	0		ALACHUA	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	-0.4	-0.4	-0.4	-0.4					Entitlement Share of St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	FMPA	KEY		OT	DFO		04/01/1998	12/31/2032	0	36.5	36.5	36.5	36.5					All KEYS owned capacity is used by FMPA to serve the ARP	6567
0	0	0	0	FMPA	KUA		OT	NG		01/01/2014	01/01/2099	0	243.3	254.6	243	255					All KUA owned capacity is used by FMPA to serve the ARP	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2021	09/30/2021	0	16.2	0	16.2	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2022	09/30/2022	0	16.2	0	16.2	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2023	09/30/2023	0	16.1	0	16.1	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2024	09/30/2024	0	23.1	0	23.1	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2025	09/30/2025	0	23	0	23	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2026	09/30/2026	0	22.9	0	22.9	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2027	09/30/2027	0	22.8	0	22.8	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2028	09/30/2028	0	22.8	0	22.8	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	SUN		06/01/2029	09/30/2029	0	22.7	0	22.7	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Nextera		OT	OTH		06/01/2030	09/30/2030	0	22.6	0	22.6	0					Firm Solar from Phase I PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2024	09/30/2024	0	38.5	0	38.5	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2025	09/30/2025	0	38.4	0	38.4	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2026	09/30/2026	0	38.3	0	38.3	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2027	09/30/2027	0	38.2	0	38.2	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2028	09/30/2028	0	38	0	38	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	SUN		06/01/2029	09/30/2029	0	37.9	0	37.9	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	Origis		OT	OTH		06/01/2030	09/30/2030	0	37.8	0	37.8	0					Firm Solar from Phase II PPA	6567
0	0	0	0	FMPA	SOU	STANTON A	CC	NG	DFO	10/01/2003	09/30/2023	0	81.4	87.1	81.4	87.1					PPA with SOU (Stanton A)	6567
9564	1	0	0	FMPA	SOU	OLEANDER 5	GT	NG		12/16/2007	12/16/2027	198.8	162	180	162	180					PPA with SOU (Oleander 5)	6567
0	0	0	0	FMPA	TBD		OT	OTH		06/01/2028	09/30/2028	0	47	0	47	0					Placeholder for meeting Summer loads plus reserve margin.	6567
0	0	0	0	FMPA	TBD		OT	OTH		06/01/2029	09/30/2029	0	61	0	61	0					Placeholder for meeting Summer loads plus reserve margin.	6567
0	0	0	0	FMPA	TBD		OT	OTH		06/01/2030	09/30/2030	0	67	0	67	0					Placeholder for meeting Summer loads plus reserve margin.	6567
200	1	0		HST	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	-7	-7.3	-7	-7.3					Entitlement Share in St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
5534	1	0		HST	FMPA	STANTON 1	ST	BIT		07/01/1987	01/01/2099	0	-7.7	-7.7	-7.7	-7.7					Entitlement Share in Stanton Project (Stanton 1). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
5534	1	0		HST	FMPA	STANTON 1	ST	BIT	BIT	07/01/1987	01/01/2099	0	-5.1	-5.1	-5.1	-5.1					Entitlement Share in Tri-City Project (Stanton 1). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
5537	1	0		HST	FMPA	STANTON 2	ST	BIT		06/01/1996	01/01/2099	0	-8.3	-8.3	-8.3	-8.3					Entitlement Share in Stanton II Project (Stanton 2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	LWBU	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2046	0	-21.6	-22.41	-21.6	-22.41					Entitlement Share in St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	LWBU	FMPA	STANTON 1	ST	BIT		07/01/1987	01/01/2046	0	-10.4	-10.4	-10.4	-10.4					Entitlement Share in Stanton Project (Stanton 1). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	MH	FMPA	ST. LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	-0.3	-0.3	-0.3	-0.3					Entitlement Share in St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	MH	FMPA	ST. LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	0.3	0.3	0.3	0.3					Entitlement Share in St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	NSB	FMPA	ST. LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	-8.6	-8.9	-8.6	-8.9					Entitlement Share in St. Lucie Project (St. Lucie #2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
0	0	0	0	STC	FMPA	STANTON 2	ST	BIT		06/01/1996	01/01/2046	0	-15.1	-15.1	-15.1	-15.1					Entitlement Share in Stanton II Project (Stanton 2). This contract will not be published in the LRP, only used for FMPA RM Calculation	6567
200	1	0		HST	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	7	7.3	7	7.3					Entitlement Share in St. Lucie Project (St. Lucie #2)	8795
5534	1	0		HST	FMPA	STANTON 1	ST	BIT		07/01/1987	01/01/2099	0	7.7	7.7	7.7	7.7					Entitlement Share in Stanton Project (Stanton 1)	8795
5534	1	0		HST	FMPA	STANTON 1	ST	BIT	BIT	07/01/1987	01/01/2099	0	5.1	5.1	5.1	5.1					Entitlement Share in Tri-City Project (Stanton 1)	8795
5537	1	0		HST	FMPA	STANTON 2	ST	BIT		06/01/1996	01/01/2099	0	8.3	8.3	8.3	8.3					Entitlement Share in Stanton II Project (Stanton 2)	8795
0	0	0	0	HST	FMPA		ST	AB		01/01/2020	12/31/2026	0	15	15	15	15					PPA	8795
0	0	0	0	LWBU	FMPA	ST LUCIE 2	ST	NUC		08/14/1983	01/01/2046	0	21.6	22.41	21.6	22.41					Entitlement Share in St. Lucie Project (St. Lucie #2)	10620
0	0	0	0	LWBU	FMPA	STANTON 1	ST	BIT		07/01/1987	01/01/2046	0	10.4	10.4	10.4	10.4					Entitlement Share in Stanton Project (Stanton 1)	10620
0	0	0	0	NSB	FMPA	ST. LUCIE 2	ST	NUC		08/14/1983	01/01/2099	0	10	10	10	10					Entitlement Share in St. Lucie Project (St. Lucie #2)	13485
0	0	0	0	RCI	FMPA		UNK	NA	NA	01/01/2019	06/30/2021	0	53	53	53	53					Firm base load purchase	15776
0	0	0	0	RCI	FMPA		UNK	NA	NA	07/01/2021	12/31/2023	0	53	53	53	53					Firm base load purchase	15776
0	0	0	0	STC	FMPA	STANTON 2	ST	BIT		06/01/1996	01/01/2046	0	15.1	15.1	15.1	15.1					Entitlement Share in Stanton II Project (Stanton 2)	17867
0	0	0	0	TEC	FMPA		UNK	NA	NA	12/01/2020	02/28/2021	0	0	150	0	150	x				Winter 2020 (Dec 2020 – Feb 2021) FMPA: 150 MW	18454

2021 Load and Resource Database
 Florida Municipal Power Agency
 FRCC Form 13
 Summary and Specifications of Proposed Transmission Lines
 As of January 1, 2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
Primary Ownership	Primary Ownership (%)	Secondary Ownership	Secondary Ownership (%)	Terminal Origin	Terminal Endpoint	Project Name (optional)	Construction Scope	Rebuild/Reconductor Ckt Miles	New Line Ckt Miles	Nominal Operating Voltage (kV)	Nominal Design Voltage (kV)	Capacity (mVA)	Sited Under	Primary Driver	Status	Line Type	Conductor Material	Conductor Size	Bundling Arrangement	Circuits Per Structure Present	Circuits Per Structure Ultimate	Tie Line (Y/N)	Pole/Tower Material	Pole/Tower Structure Type	Commerical In Service (Mo/Yr)	Notes

**2021 Load and Resource Database
Florida Municipal Power Agency
FRCC Form 13.1**

**Summary of Circuit Miles of Existing Transmission Lines
As of December 31, 2020**

(1)	(2)	(3)	(4)
Voltage Class	Inside FRCC Region	Outside FRCC Region	Total Circuit Miles
500 kV	0	0	0
230 kV	11	0	11
138 kV	0	0	0
115 kV	0	0	0
69 kV	0	0	0