

# STATE OF THE UTILITY

November 2021

Item #210716

ASA	Average Speed of Answer
ASAI	Average Service Availability Index
CAIDI	Customer Average Interruption Duration Index
CIP	Critical Infrastructure Protection
CMI	Customer Minutes Interrupted
CO2	Carbon Dioxide
CSR	Customer Service Representative
DART	Days away, Restricted duty, Temporary transfer
DH1	DeerHaven 1
DH2	DeerHaven 2
DH CT-1	DeerHaven Combustion Turbine #1 – 17.5 MW
DH CT-2	DeerHaven Combustion Turbine #2 – 17.5 MW
DHCT3 or DH CT-3	DeerHaven Combustion Turbine #3 – 71 MW
DHR	DeerHaven Renewable (Biomass Plant)
EIA	Energy Information Administration
FMPA	Florida Municipal Power Association
FTE	Full Time Employee
FY	Fiscal Year
GS	General Service
HE	Hour Ending
Hg	Mercury
IVR	Interactive Voice Response
JRKCC1	John Kelly Combined Cycle 1
Kelly CC	Kelly Combined Cycle
kGals	A thousand gallons of water
kWh	kilowatt-hour, commonly used as a billing unit for energy delivered to consumers by electric utilities
KWRF	Kanapaha Water Reclamation Facility
L-Bar	Average Length of a Service Interruption
MATS	Mercury
MCF	1000 Cubic Ft. of Gas
MWn	Mega Watts
MSWRF	Main Street Water Reclamation Facility
MWTP	Murphree Water Treatment Plant
NERC	North American Electric Reliability Corporation
NOX	Nitrogen
OEM	Original Equipment Manufacturer
OH	Overhead
PMFILT	Porous Metal Filters
PV	Photo Voltaic (Solar Cell)
SAIDI	System Average Interruption Duration Index
SAIFI	System Average Interruption Frequency Index
SCR	Selectius Catalytic Reactor
SO2	Sulfur Dioxide
Therms	a unit of heat equivalent to 100,000 Btu or $1.055 \times 10^8$ joules.
THIP	Total Heat Input
TND	Traditional Neighborhood Development
TOU	Time of Use
UG	Underground
W/WW	Water WasteWater

# OPERATIONS SUMMARY

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

November 2021

**Safety**

	Current Month		
	First Aid	Recordable	DART
Administration	0	0	0
W/WW Systems	0	0	0
Energy Supply	0	0	0
Energy Delivery - Electric/Gas	0	0	0
GRUCom	0	0	0
<b>Totals</b>		0	

Employees

	Year to Date		
	First Aid	Recordable	DART
	0	0	0
	0	0	0
	1	0	0
	0	0	0
	0	0	0
		0	

	Current Month		
	Miles Driven*	Recordable	Preventable
Administration	8,778	0	0
W/WW Systems	44,557	0	0
Energy Supply	1,753	0	0
Energy Delivery - Electric/Gas	97,897	0	0
GRUCom	8,752	0	0
<b>Totals</b>	161,737	0	0

Vehicles

	Year to Date		
	Miles Driven*	Recordable	Preventable
	16,499	1	1
	98,677	0	0
	2,146	0	0
	191,171	1	0
	16,472	0	0
	324,965	2	1

\*Mileage data is for October 2021. November mileage data will be included in December report.

Mileage YTD through October 2021

**Regulatory**

**NERC  
Notice of Violations  
Self Reports/Potential Violations**

0
0

**Fiscal Year to Date**

0
1

**Personnel**

	<b>AUTHORIZED FTE</b>	<b>FILLED FTE</b>	<b>VACANCY</b>	<b>Last Month (October)</b>
Administration				
Chief Operating Officer				
Customer Support Services				
Energy Delivery				
Energy Supply				
Energy Supply - District Energy				
Finance				
GRUCom				
Information Technology				
Water Wastewater				
<b>Grand Total</b>				

Unavailable

Authorized and filled FTE's do not include temporary employees or interns.  
Filled FTE's do include staffed overfills

## Utility Advisory Board Monthly Report – FY 2022 NERC compliance

### Penalty violations

Determination date      Description

### Non-Penalty violations      (Compliance Exceptions or Find-Fix-Track)

Determination date      Description

### Potential violations      (Pending regulatory agency determination)

Report date      Description

10/11/2021	6/28/2021 change in AVR control mode without prior authorization from system control [VAR-002-4.1 R1]; and no notification to system control within 30 minutes of AVR status change [VAR-002-4.1 R3]. (2021-00644 & 2021-00645)
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## Utility Advisory Board Monthly Report – FY 2022 Safety Data Summary

**Employee Injuries** (DART – days away, restricted duty, temporary transfer)

### OCTOBER

- None reported

### NOVEMBER

- None reported

### DECEMBER

- 12/1/2021 – While changing a blade on a reciprocating saw, the employee cut the back of the right index finger. Recordable for Rx medication. No work restrictions.

### JANUARY

### FEBRUARY

### MARCH

### APRIL

### MAY

### JUNE

### JULY

### AUGUST

### SEPTEMBER

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**End of FY 2022**

## Utility Advisory Board Monthly Report – FY 2022 Vehicle Collision Summary

**Vehicle Collisions** (P) indicates preventable by our employee

### OCTOBER

- 10/1/2021 – Employee was backing into a parking spot when a private driver cut behind him through the parking spaces. The vehicles collided doing minor damage to both vehicles right rear bumpers. There were no injuries.
- 10/27/2021 – Employee was driving west on NW 39th Avenue approaching the light at NW 91st street. The traffic was flowing normal through the light, which was green. The employee observed a vehicle in the outside lane that looked as if it was going to come over into his lane, so he instinctively looked over at the vehicle and when he looked back up, traffic had come to an abrupt complete stop. The employee braked but could not stop and struck the vehicle ahead causing damage to both vehicles. No injuries were reported. (P)

### NOVEMBER

- None reported

### DECEMBER

### JANUARY

### FEBRUARY

### MARCH

### APRIL

### MAY

### JUNE

### JULY

### AUGUST

### SEPTEMBER

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**End of FY 2022**



# CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

## Customer Operations Metrics Summary November 2021

<b>Active Accounts</b>	Nov-21	YTD Gain/Loss	FY21
<i>Residential Contract Accounts</i>			
Total	95,218	121	95,097
Electric	87,788	83	87,705
Gas	34,818	86	34,732
Water	64,786	52	64,734
Wastewater	60,568	100	60,468
Telecomm	0	0	0

<b>New Installations</b>	Nov-21	FY22 To Date	FY21
Electric	58	184	1833
Gas	27	70	775
Water	33	81	771
Wastewater	39	71	777
Telecomm	0	0	18

<b>Call Center Volume</b>	Nov-21	FY22 To Date	FY21
Residential ASA	0:11:58	0:13:21	0:16:46
Business ASA	0:03:59	0:04:14	0:03:42
CSR Calls	14,660	31,114	215,887
CSR Callbacks	2,916	6,486	47,189
IVR Self Service	73,765	165,829	189,977
Total	91,341	203,429	453,053
IVR/Total	81%	82%	42%

<b>Bills Generated</b>	Nov-21	FY22 To Date	FY21
Paper Bills	79,888	160,139	109,177
eBills	33,818	67,127	261,591
Total	113,706	227,266	1,353,368
eBill/Total	30%	30%	19%

<b>Payment Arrangements</b>	Nov-21	FY22 To Date	FY21
Total	660	1,285	8,419

<b>Customer Experience</b>	Nov-21	FY22 To Date	FY21
Overall CSAT	3.80	3.75	N/A
Number of Responses	176	501	N/A
Number of Surveys Sent	2,150	5,923	N/A
Response Rate	8%	8%	N/A

<b>Active Accounts</b>	Nov-21	YTD Gain/Loss	FY21
<i>Nonresidential Contract Accounts</i>			
Total	13,195	0	13,195
Electric	11,029	(14)	11,043
Gas	1,671	506	1,165
Water	5,914	9	5,905
Wastewater	4,708	30	4,678
Telecomm	0	0	0

<b>Residential Disconnects</b>	Nov-21	FY22 To Date	FY21
Volume	1,386	2,661	14,313
Average Balance	\$246.77	\$244.68	\$243.10

<b>Revenue Assurance</b>	Nov-21	FY22 To Date	FY21
Referred to Collections	\$96,693.41	\$247,636.67	\$1,972,070.41
Recovered	\$84,359.90	\$200,446.66	\$1,093,335.45

<b>Service Orders</b>	Nov-21	FY22 To Date	FY21
Move Ins	5,718	12,240	114,586
Move Outs	6,018	11,975	112,065

<b>Average Res Bill Amounts</b>	Nov-21	FY22 To Date	FY21
Electric (kWh)	677	780	819
Electric (\$)	\$111.78	\$123.00	\$119.78
Gas (Therms)	15	13	21
Gas (\$)	\$30.35	\$26.51	\$33.99
Water (kGals)	5	5	5
Water (\$)	\$31.56	\$31.61	\$30.64
Wastewater (kGals)	5	5	5
Wastewater(\$)	\$45.22	\$44.83	\$36.96

<b>Annual Relationship</b>	Nov-21	FY22 To Date	FY21
Overall CSAT	0.00	#DIV/0!	N/A
Number of Responses	0	0	N/A
Number of Surveys Sent	0	0	N/A
Response Rate			N/A

# ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

# Energy Delivery - UAB Report - November 2021

Durations Reliability Report Between 11/01/2021 and 11/30/2021				
Excludes Extreme Weather and Generation/Transmission Disturbances				
CUSTOMER DATA	RELIABILITY INDICES			MONTHLY AVG GOAL
Monthly Average Customers Served(C)	101,092	Average Service Availability Index (ASAI)	99.9879%	
Total Hours of Customer Demand	72,786,240	System Average Interruption Duration Index (SAIDI)	5.23	4.5
Total Number of Outages	43	Customer Average Interruption Duration Index (CAIDI)	39.46	60
Total Number of Customers Affected (CI)	13,400	System Average Interruption Frequency Index (SAIFI)	0.13	0.08
Total Customer Minutes Interrupted (CMI)	528,752			
Total Customer "Out Minutes"	5,394	Average Length of a Service Interruption (L-Bar)	125.44 Mins	
<b>Cause of Outages</b>				
Cause	Overhead	Underground	Both	Total
0. Undetermined	5	3	3	11
1. Weather	0	0	0	0
2. Vegetation	11	0	1	12
3. Animals	7	0	0	7
4. Foreign Interference	0	0	0	0
5. Human Cause	2	0	0	2
6. Equipment Failure	2	9	0	11
7. All Remaining Outages	0	0	0	0
<b>Total</b>	<b>27</b>	<b>12</b>	<b>4</b>	<b>43</b>

Durations Reliability Report Between 01/01/2021 and 11/30/2021*				
Excludes Extreme Weather and Generation/Transmission Disturbances, Excludes TMED Days				
CUSTOMER DATA	RELIABILITY INDICES			GRU YTD GOALS
Monthly Average Customers Served(C)	99,938	Average Service Availability Index (ASAI)	99.9844%	
Total Hours of Customer Demand	801,103,008	System Average Interruption Duration Index (SAIDI)	74.85	49.5
Total Number of Outages	679	Customer Average Interruption Duration Index (CAIDI)	55.31	60
Total Number of Customers Affected (CI)	106,499	System average Interruption Frequency Index (SAIFI)	1.35	0.88
Total Customer Minutes Interrupted (CMI)	6,298,850			
Total Customer "Out Minutes"	120,381	Average Length of a Service Interruption (L-Bar)	169.39 Mins	
<b>Cause of Outages</b>				
Cause	Overhead	Underground	Both	Total
0. Undetermined	59	5	6	70
1. Weather	52	6	3	61
2. Vegetation	274	9	14	297
3. Animals	90	5	4	99
4. Foreign Interference	0	0	0	0
5. Human Cause	29	6	7	42
6. Equipment Failure	51	104	31	186
7. All Remaining Outages	2	0	14	16
<b>Total</b>	<b>557</b>	<b>135</b>	<b>79</b>	<b>771</b>
<b>* REPORTED AS CALENDAR YEAR</b>				

	GRU	GRU	EIA - All	EIA - Public	FMPA
	CY 2021 Goal	CY 2020 Actual	CY 2019	CY 2019	CY 2020
<b>SAIDI</b>	55 Mins	60.69	144.16	62.31	89.06
<b>CAIDI</b>	60 Mins	54.57	83.35	65.09	65.45
<b>SAIFI</b>	1.0 or less	1.11	1.66	0.98	1.36

Notes on EIA and FMPA Data:

1. EIA - All data is Florida only and includes co-ops, IOU's and municipals
2. FMPA data includes 23 municipals in Florida
3. Breakdown:

Number of Utilities Submitting Data in FL			
All	Coop	IOU	Public Power
38	13	5	20

# Energy Delivery - UAB Report - November 2021

## Electric System Consumption

	2021		2020	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	125 KWH	103	75 KWH	101
Feed-In-Tariff - General Service	2,748 KWH	157	2,625 KWH	158
Electric - GS - Demand - Regular	45,631,349 KWH	1,124	55,450,384 KWH	1,184
Electric - General Service Demand PV	1,001,100 KWH	21	863,455 KWH	22
Electric - GS - Kanapaha w Curtail Cr	1,177,200 KWH	1	1,152,000 KWH	1
Electric - GS - Demand - Large Power	8,595,000 KWH	7	8,757,600 KWH	6
Electric - GS - Murphree Curtail Credit	1,512,000 KWH	1	1,480,800 KWH	1
Electric - GS Large Demand PV	4,368,000 KWH	2	5,109,600 KWH	2
Electric - GS - Non Demand	13,477,211 KWH	9,970	17,110,400 KWH	9,904
Electric - General Service PV	149,304 KWH	79	187,145 KWH	72
Electric - Lighting - Rental	858,443 KWH	3,771 <i>n</i>	922,243 KWH	3,945 <i>n</i>
Electric - Lighting - Street - City	408,543 KWH	12 <i>n</i>	559,329 KWH	12 <i>n</i>
Electric - Lighting - Street - County	127,078 KWH	2 <i>n</i>	132,165 KWH	2 <i>n</i>
Electric - Lighting - Traffic	144 KWH	1	4,542 KWH	2
Electric - Residential - Non TOU	57,246,731 KWH	88,616	90,736,804 KWH	88,214
Electric - Residential PV	303,097 KWH	709	478,071 KWH	489
<b>Total Retail Electric</b>	<b>134,858,073 KWH</b>	<b>100,791</b>	<b>182,947,238 KWH</b>	<b>100,156</b>
City of Alachua	9,301,617 KWH	12,554	12,603,650 KWH	27,698
<b>Total (Native) Electric</b>	<b>144,159,690 KWH</b>		<b>195,550,888 KWH</b>	

(n =not included in total customer count)

## Gas System Consumption

	2021		2020	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	665,384 THM	1,321	563,385 THM	1,349
Gas - GS - Regular Service (Small)	7,829 THM	349	5,530 THM	324
Gas - GS - Interruptible - Regular Serv	16,000 THM	1	25,506 THM	1
Gas - GS - Interruptible - Large Volume	355,292 THM	6	362,999 THM	7
Gas - Residential - Regular Service	503,040 THM	34,979	319,940 THM	34,413
<b>Total Retail Gas</b>	<b>1,547,545 THM</b>	<b>36,656</b>	<b>1,277,360 THM</b>	<b>36,094</b>
Gas - GS - UF Cogeneration Plant	3,493,895 THM	1	2,907,253 THM	1
Gas - Residential - LP - Basic Rate	4,775 GAL	203	2,530 GAL	202

## Energy Delivery - UAB Report - November 2021

### Major Electric Design Projects

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- > Celebration Pointe - Alachua County Sport Events Center
- > Hyatt Downtown
- > VA Mental Health Hub & Outpatient Clinic 34th Street
- > The Blount Center - Santa Fe College
- > Oaks Preserve Subdivision (295 single-family residences)

### Major Gas Design Projects

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- > Main Installation - Town of Tioga Ph. 20 - SW 131st St - 2,700'
- > Main Installation – Flint Rock Sub – SW 122nd St – 15,576'
- > Main Installation – Oakridge Sub - US 441 - 8,960'
- > Main Installation – Parker Rd – 8000' 8" PE
- > Annual Leak Survey

Gas Services installed in October 2021: 33 new customers

# ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

## Energy Supply - CAPACITY

	Unit Capability output - MWn
DH-2	228
DH-1	75
Kelly CC	108
CT's	106
Grid	2 x 224
DHR	102.5

## Energy Supply - Performance Parameter

	Month	YTD	Budget YTD	Delta Budget
	51,762	97,874	-	97,874
	16,686	29,134	4,776	24,358
	42,489	114,201	155,644	(41,443)
	41	41	84	(43)
	(12,094)	(41,848)	39,979	(1,869)
	31,639	89,562	86,692	2,870

## Fuels Consumed

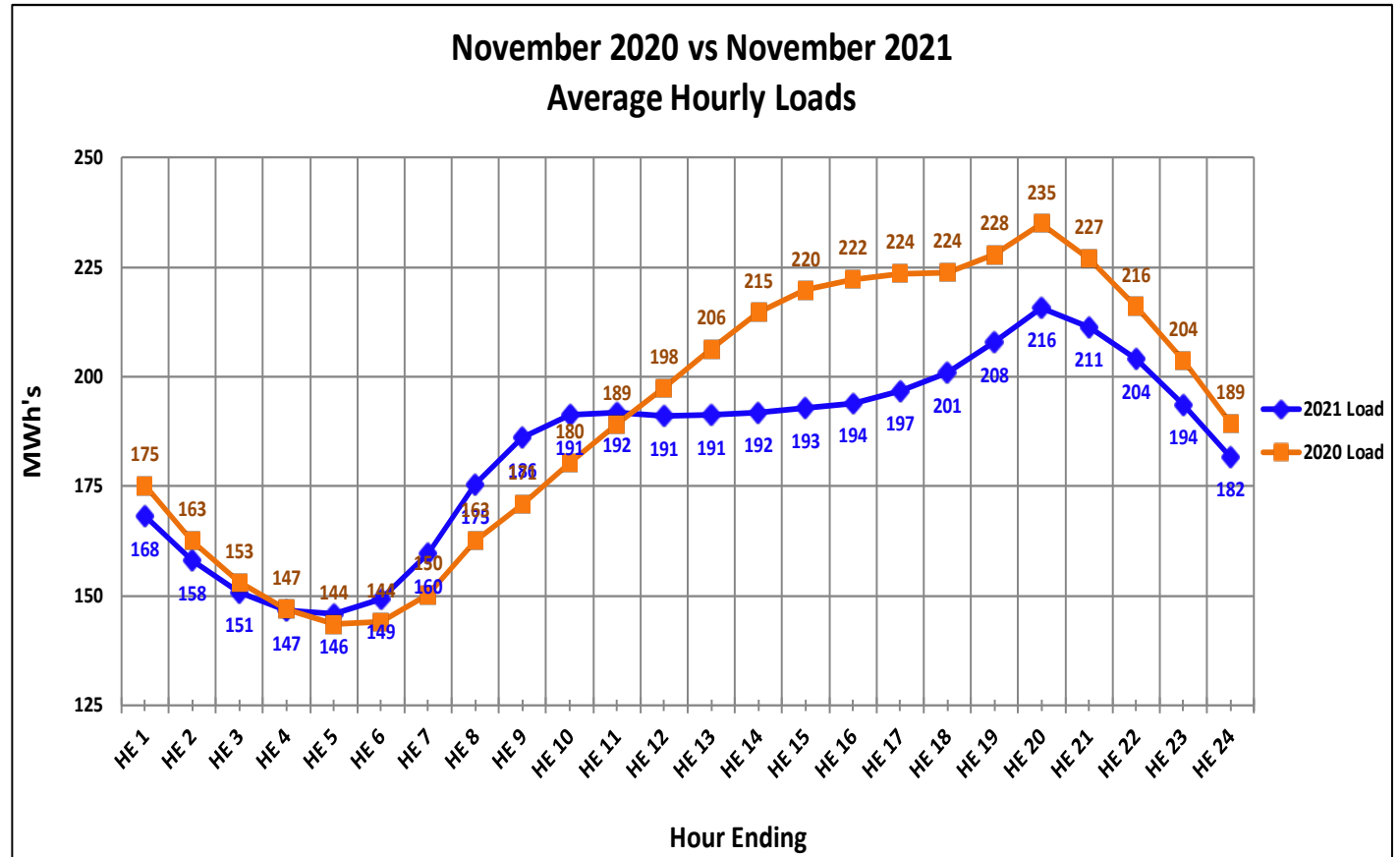
	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	11,518	21,956	-	21,956
Gas - MCF	1,814,735	2,946,160	1,443,306	1,502,854
Fuel oil - Gals	1,117	1,386	-	1,386
Biomass - Tons	39,418	110,933	115,535	(4,602)

## Availability/Capacity

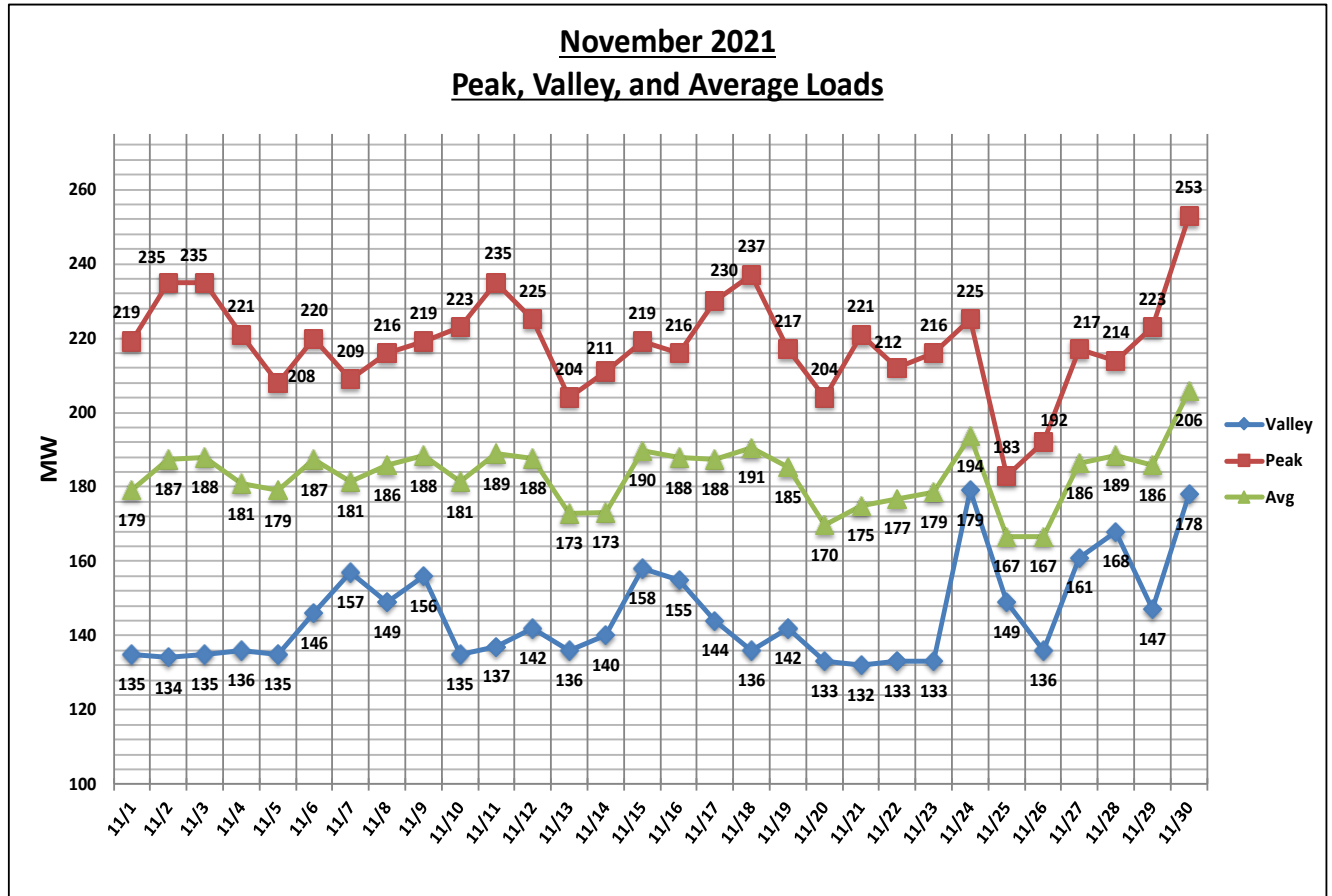
	Availability			Capacity		
	Month	FY 2022 YTD	FY 2021 YTD	Month	FY 2022 YTD	FY 2021 YTD
DH-2	100.00%	94.21%	87.01%	33.95%	32.33%	30.69%
DH-1	100.00%	96.25%	98.80%	32.20%	28.45%	40.19%
Kelly CC	86.21%	93.11%	52.97%	52.16%	71.63%	43.42%
DH CT-1	100.00%	100.00%	96.22%	0.00%	0.00%	0.25%
DH CT-2	100.00%	100.00%	94.96%	0.29%	0.22%	0.21%
DH CT-3	100.00%	100.00%	99.89%	0.00%	0.00%	2.06%
DHR	47.95%	69.26%	68.62%	44.09%	59.09%	46.38%



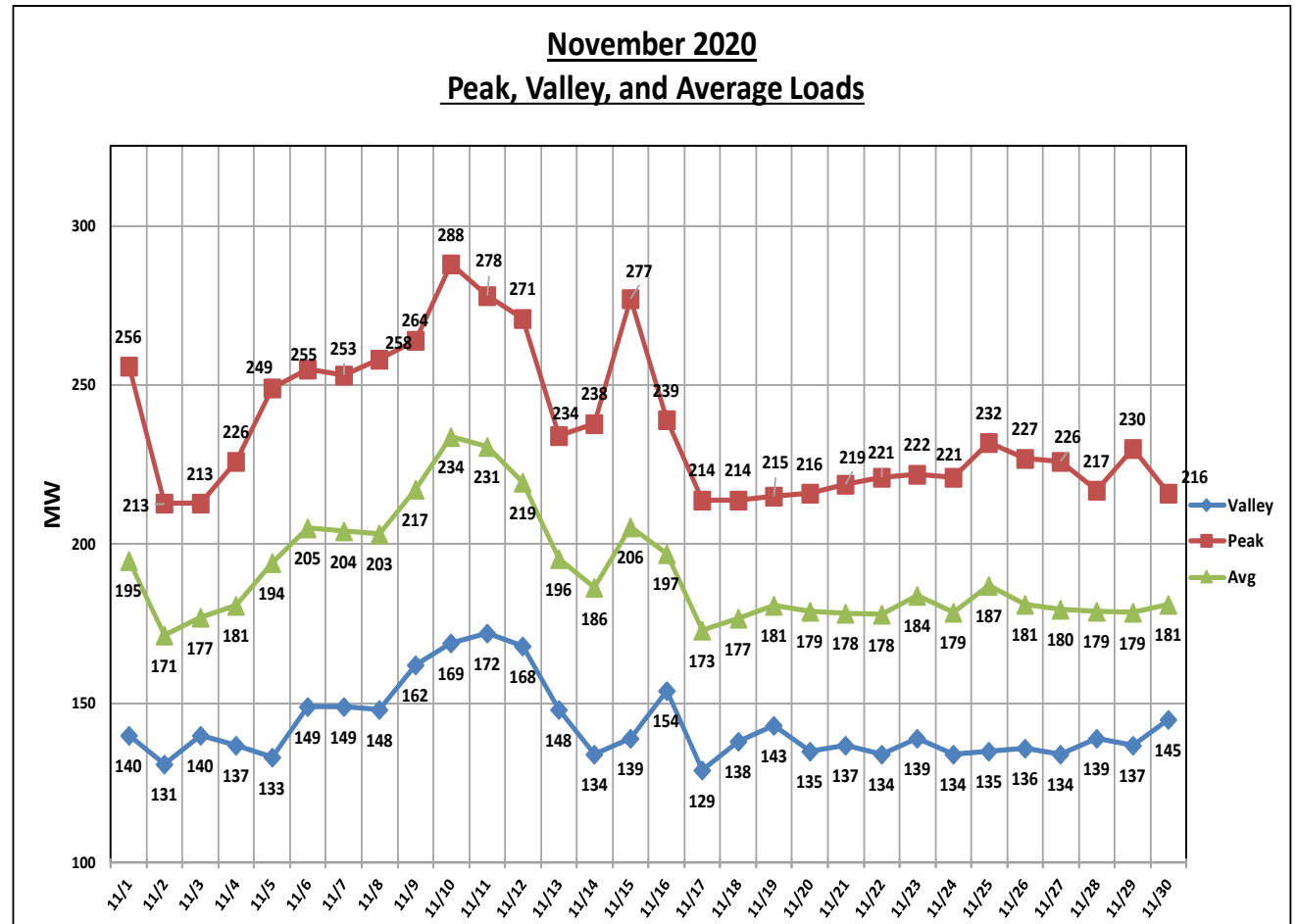
November Average Hourly Loads		
Hour Ending	2020 Load	2021 Load
HE 1	175	168
HE 2	163	158
HE 3	153	151
HE 4	147	147
HE 5	144	146
HE 6	144	149
HE 7	150	160
HE 8	163	175
HE 9	171	186
HE 10	180	191
HE 11	189	192
HE 12	198	191
HE 13	206	191
HE 14	215	192
HE 15	220	193
HE 16	222	194
HE 17	224	197
HE 18	224	201
HE 19	228	208
HE 20	235	216
HE 21	227	211
HE 22	216	204
HE 23	204	194
HE 24	189	182



Date	Valley	Peak	Avg
11/1/2021	135	219	179
11/2/2021	134	235	187
11/3/2021	135	235	188
11/4/2021	136	221	181
11/5/2021	135	208	179
11/6/2021	146	220	187
11/7/2021	157	209	181
11/8/2021	149	216	186
11/9/2021	156	219	188
11/10/2021	135	223	181
11/11/2021	137	235	189
11/12/2021	142	225	188
11/13/2021	136	204	173
11/14/2021	140	211	173
11/15/2021	158	219	190
11/16/2021	155	216	188
11/17/2021	144	230	188
11/18/2021	136	237	191
11/19/2021	142	217	185
11/20/2021	133	204	170
11/21/2021	132	221	175
11/22/2021	133	212	177
11/23/2021	133	216	179
11/24/2021	194	225	194
11/25/2021	149	183	167
11/26/2021	136	192	167
11/27/2021	161	217	186
11/28/2021	168	214	189
11/29/2021	147	223	186
11/30/2021	178	253	206



Date	Valley	Peak	Avg
11/1/2020	140	256	195
11/2/2020	131	213	171
11/3/2020	140	213	177
11/4/2020	137	226	181
11/5/2020	133	249	194
11/6/2020	149	255	205
11/7/2020	149	253	203
11/8/2020	148	258	217
11/9/2020	162	264	234
11/10/2020	169	288	231
11/11/2020	172	278	231
11/12/2020	168	271	219
11/13/2020	148	234	196
11/14/2020	134	238	186
11/15/2020	139	277	206
11/16/2020	154	239	197
11/17/2020	129	214	173
11/18/2020	138	214	177
11/19/2020	143	215	181
11/20/2020	135	216	179
11/21/2020	137	219	181
11/22/2020	134	221	178
11/23/2020	139	222	184
11/24/2020	136	221	179
11/25/2020	135	232	187
11/26/2020	136	227	181
11/27/2020	134	226	180
11/28/2020	139	217	179
11/29/2020	137	230	179
11/30/2020	145	216	181



Date: As of December 2, 2021: Major Energy Supply Projects/Milestones Updates:

1. Deerhaven Generating Station (DH):
  - a. Site in General
    - i. Our site natural gas provider (Florida Gas Transmission) is scheduled for a complete gas outage at DH 12/3 through 12/6/2021. During this time only generation available is DH2 on coal, DH1 on liquid (#6) fuel and CT2 on liquid (#2 diesel) fuel. Generation plan has been altered to support contingencies needed during this DH gas outage.
  - b. Deerhaven Unit #2(DH2):
    - i. Following the conversion to dual fuel, have been seeing highly elevated noise levels associated with the flow in the new natural gas lines. The noise level in proximity of new gas lines is well above the criteria for single hearing protection and now requires utilization of double hearing protection. To address the long-term concerns of this issue we had a sound survey conducted by a vendor that specializes in this area. Although we do not have the final survey results yet, the vendor is recommending sound insulation on the gas lines to bring noise level down to acceptable levels. The vendor is working recommendation for scope and costing associated with reduction to various levels, and we will be working towards the scope to be below level needed for double hearing protection at a minimum. The survey draft results show sound levels at the plan site boundaries are well below city ordinance levels, so the exposure of most concern is employee safety.
    - ii. The dual fuel project testing has been able to achieve 244 MW gross so far. We have not been able to test above this load due to gas header pressure falling too low at the 244 MW load. Full load testing beyond this will now not be 100% achievable until modification to gas lines to Deerhaven Generating Station are complete. Currently Florida Gas Transmission (FGT) is planning to complete these gas line modification by July of 2022.
    - iii. We have received 5 coal trains this calendar year and working on 2 other trains for delivery after the first of the year. Availability of cost-effective coal is very limited, and cost has been trending upward with the cost of natural gas pricing.
  - c. Deerhaven Unit #1 (DH1)
    - i. We are still working diligently with several vendors on scope and cost of a lifetime assessment of Turbine and Generator, that is currently set to retire in 2022. This outage for this assessment, and turbine inspection, is currently scheduled for execution in fall of 2022.
2. Deerhaven Renewable (DHR):
  - a. We will beginning the next planned outage in early January 2022. This is scheduled to be a 3-week outage with main scope associated with fuel handling equipment.
3. Kelly Generating Station (JRK):
  - a. Unit #8 HRSG experienced a tube leak in the economizer that had unit in forced outage from 11/19 to 11/23/2021. Repairs we made and unit fully tested in combined cycle. Unit is now offline so that CT4 could be used as a contingency plan for the DH natural gas outage discussed above.

4. South Energy Center (SEC):

- a. On 11/24/2021 Wartsila engine tripped due to ignition issues. Initial troubleshooting identified recovery was going to be delayed so second engine (SOLAR) was started to support island mode if needed. Troubleshooting of engine revealed a bad coil cable and unit was full restored to service 11/30/2021.
- b. Wartsila engine SCR catalyst was replaced on 11/30/2021 and tuning with new catalyst is in progress. Once this tuning is complete the second engine (SOLAR) will be placed back in standby. We are currently working on completing the required emission testing, post catalyst replacement, the week of 12/12/2021. This emission testing needs to be successfully completed by end of this calendar year.

**City Commission - FY21 - 4QTR Coal Sourcing Report**

Month Coal Delivered	Coal Supplier(s)	Mine	Tons	Deep	MTR	Surface (No MTR)
Jul-21	1	Creech	12,567.90	70%		30%
Aug-21	1	Creech	23,665.05	70%		30%
Sep-21						
<b>Total</b>			<b>36,232.95</b>	<b>70.00%</b>		<b>30.00%</b>

**Notes:**

1. Coal Supplier 1

Spot transaction Confirmation, Coal Commodity Purchase Agreement effective June 7, 2021-July 31, 2021.

Spot transaction Confirmation, Coal Commodity Purchase Agreement effective July 27, 2021-August 31, 2021.

**Gainesville Regional Utilities  
Solar PPA Status Report  
Report Period: November 2021**

**GRU Scope:**

<b>Milestone</b>	<b>Expected Completion Date</b>	<b>Status</b>	<b>Notes</b>
Grid Interconnection Studies	2/2021	Complete	Complete
Grid Interconnection Agreement	7/15/2021	Pending	Finalizing document. Extended due to higher team priorities.
Easement for Seller Interconnection Facilities at Parker Rd Substation	9/2021	Pending	
GRU Interconnection Facilities Planning and Construction	10/2021	Pending	Commenced project planning
GRU Interconnection Facilities Completion	8/2022	Pending	
Operating Procedures	11/2021	Pending	
Scheduled Commercial Operation	12/31/2022	Pending	

COVID-19 Pandemic Impact – While there remains a potential for impacts that may adversely affect GRU’s ability to fulfil its obligations under this agreement, none have occurred to-date. GRU will continue to monitor the situation and use commercially reasonable efforts to meet it’s contractual obligations.

**Origis Energy Scope:**

1. The Alachua County Commission denied the Special Use Permit for the Sand Bluff Solar Facility on July 7, 2021.
2. Origis is reviewing their planned course of action which will be communicated to GRU at a future date.
3. Origis is asserting a day for day delay in milestones for excusable delay due to special use permit denial by Alachua County Commission.

*Prepared 12/4/2021*

# ENVIRONMENTAL PERMITTING

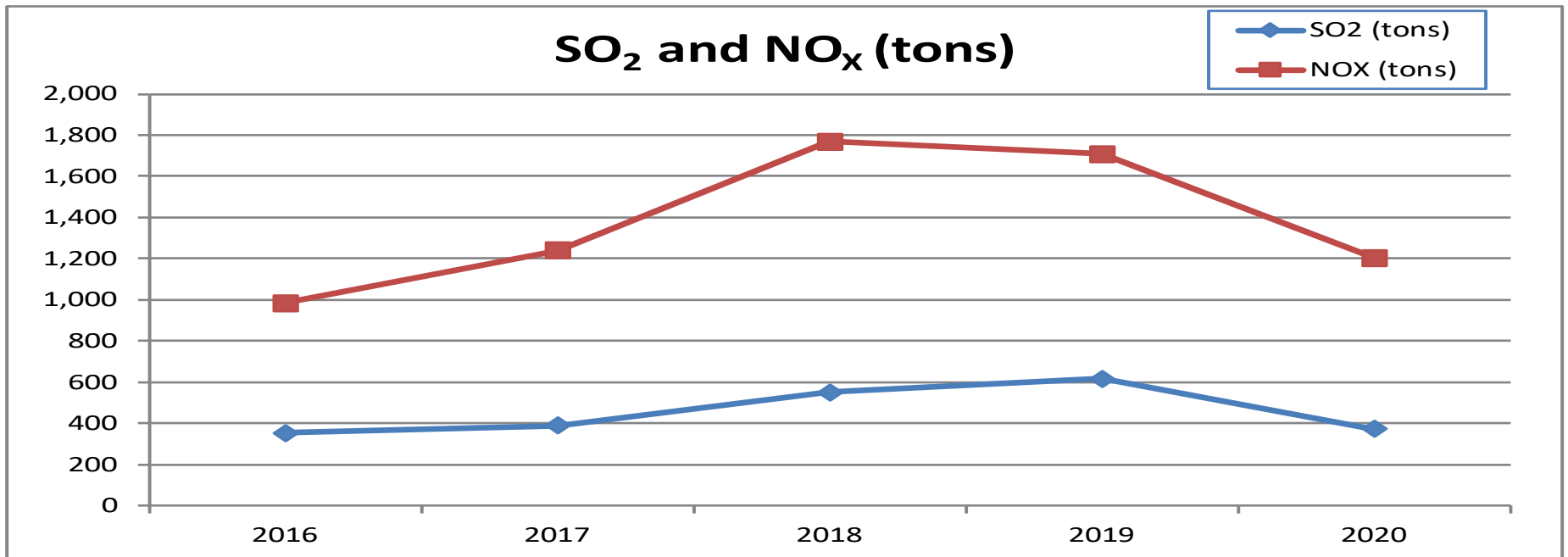
## EMISSIONS DATA



## Yearly Emissions

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)
2016	354	984	2.92	61	1,216,690
2017	389	1,239	2.40	52	1,037,711
2018	551	1,770	3.80	55	2,096,289
2019	618	1,707	5.30	49	2,020,310
2020	372	1,203	3.14	56	1,462,622
2021 (thru Nov.)	534	1,488	3.42	58.5	1,835,174

**2017, 2018, 2019 and 2020 Mercury and Particulate values are for Unit 2 only.**

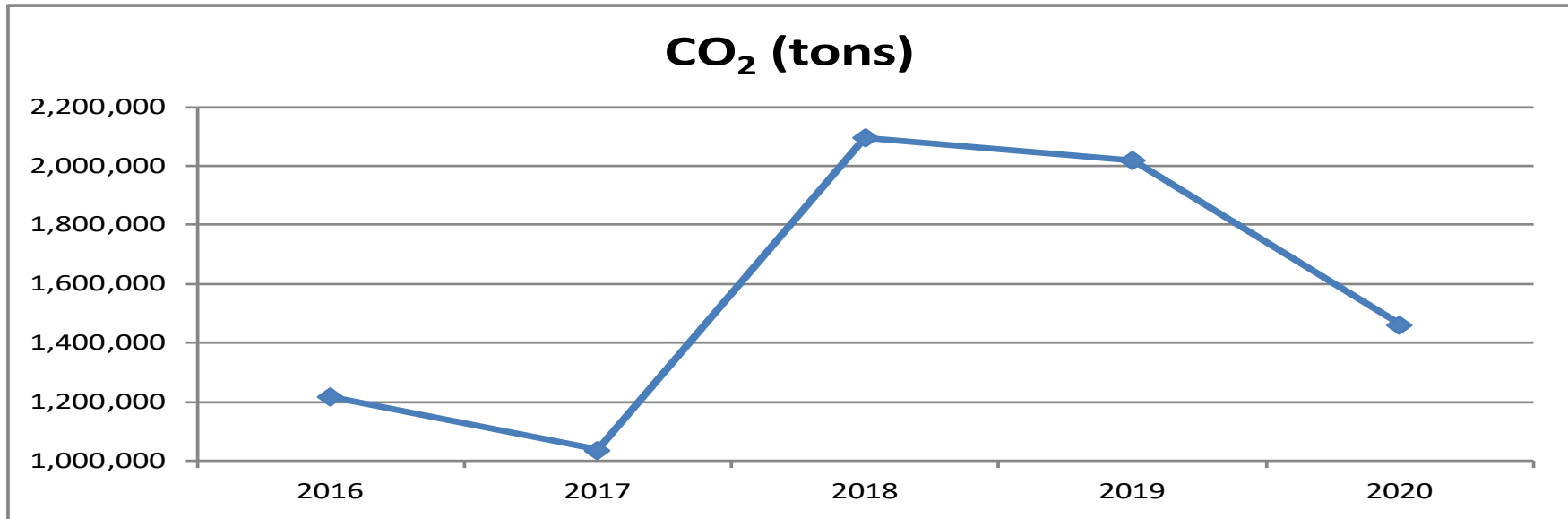


**SO<sub>2</sub> was lower in 2015, 2016, and 2017 due to higher removal rate settings to assure compliance with the MATS Rule.**

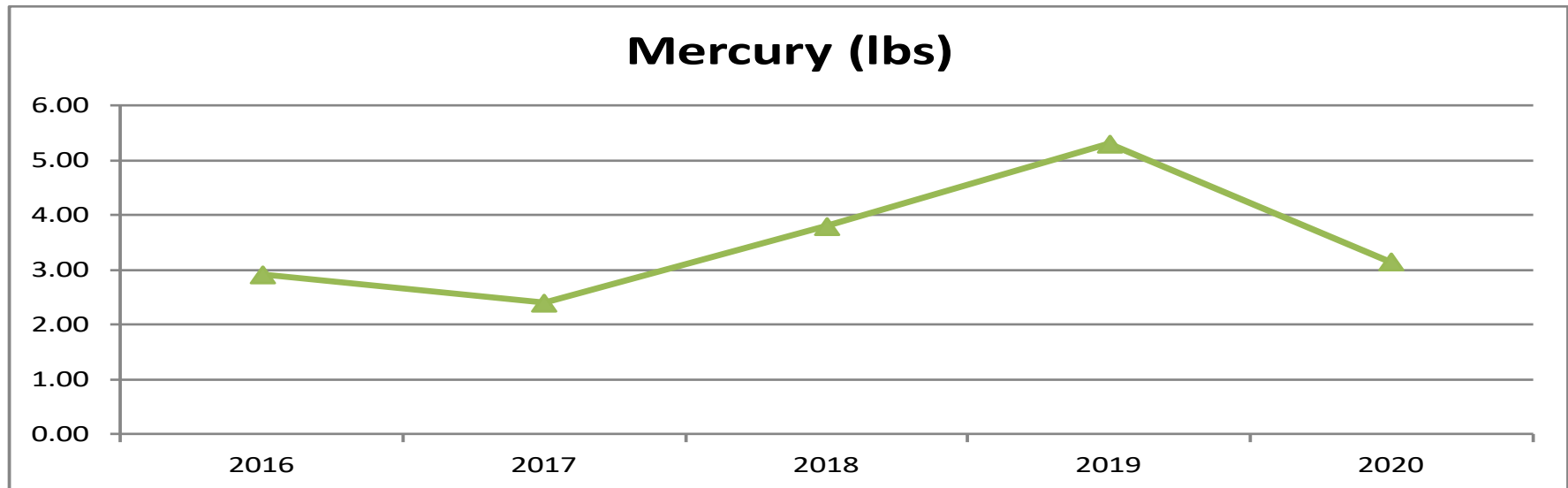
**NO<sub>x</sub> was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate. NO<sub>x</sub> was higher in 2017 since the Cross State Rule was no longer in effect for Florida.**

**2018 and later data include DHR. The previous years did not include DHR.**

## Yearly Emissions

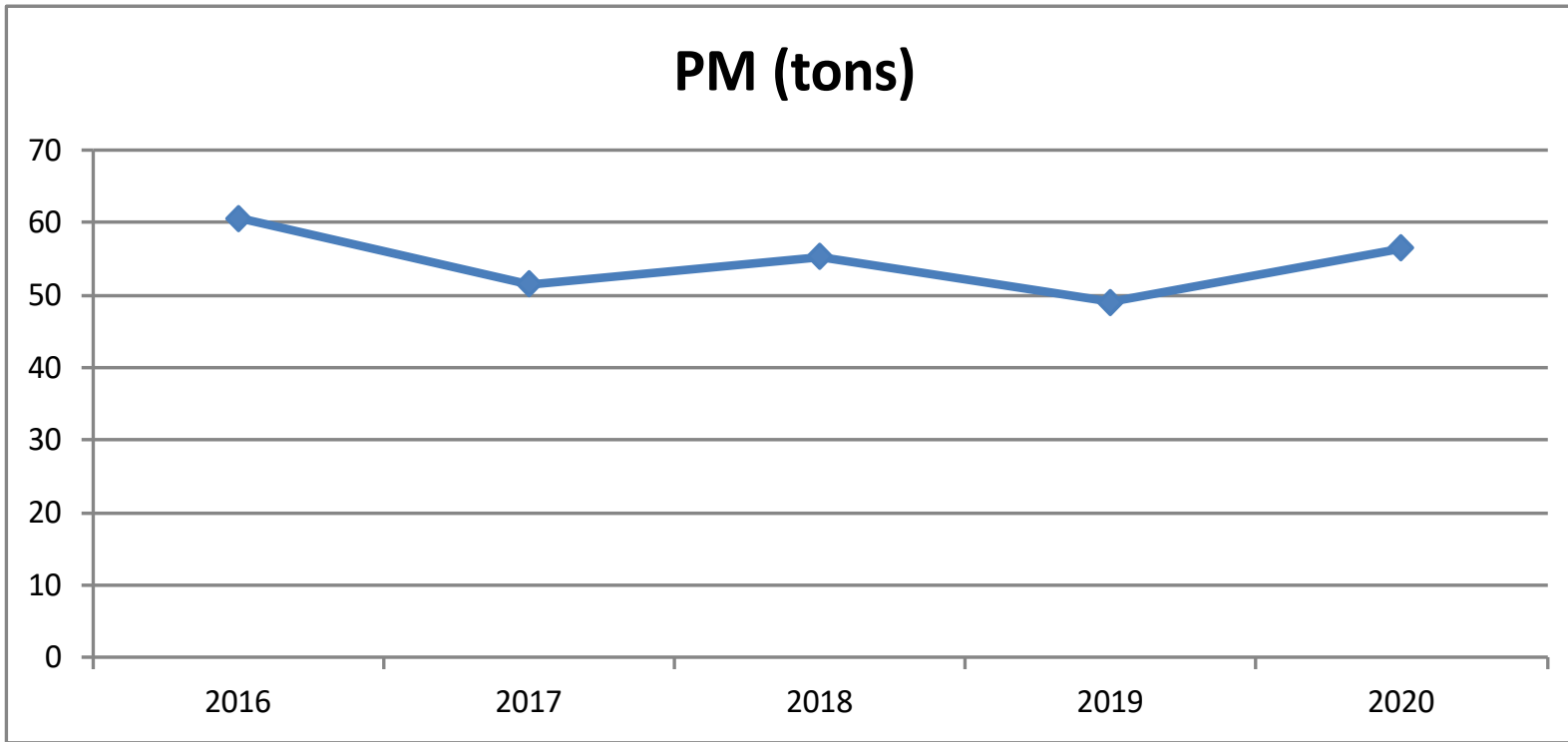


**2018 and later data include DHR. The previous years did not include DHR.**



**Mercury was lower in 2016 and 2017 due to higher removal rate settings to assure compliance with the MATS Rule.**

# Yearly Emissions



YTD - 2021 November

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)	SO <sub>2</sub> Rate (lb/MMBtu)	NO <sub>x</sub> Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	21.4	217.5			169,209.6			2,837,183.0	244,404.0
DH2	495.6	972.2	3.42	58.5	570,820.2			7,006,058.0	672,863.0
DHCT3	0.0	0.1			9,316.9			156,818.0	11,676.0
JRKCC1	1.0	47.8			215,611.4			3,628,088.2	416,069.0
DHR	15.6	250.6			870,215.6			8,337,352.3	629,901.0
<b>TOTAL</b>	<b>533.6</b>	<b>1,488.2</b>	<b>3.42</b>	<b>58.5</b>	<b>1,835,173.7</b>			<b>21,965,499.5</b>	<b>1,974,913.0</b>

TOTALS without DHR

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)	SO <sub>2</sub> Rate (lb/MMBtu)	NO <sub>x</sub> Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	21.4	217.5			169,209.6			2,837,183.0	244,404.0
DH2	495.6	972.2	3.42	58.5	570,820.2			7,006,058.0	672,863.0
DHCT3	0.0	0.1			9,316.9			156,818.0	11,676.0
JRKCC1	1.0	47.8			215,611.4			3,628,088.2	416,069.0
Total Without DHR	518.0	1,237.6	3.418	58.5	964,958.1			13,628,147.2	1,345,012.0

2021 - November

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)	SO <sub>2</sub> Rate (lb/MMBtu)	NO <sub>x</sub> Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	0.1	16.7			14,034.5			236,143.0	18,386.0
DH2	44.6	80.2	0.36	4.2	49,019.5			629,750.0	60,999.0
DHCT3	0.0	0.0			0.0			0.0	0.0
JRKCC1	0.1	5.2			21,741.2			365,847.0	42,834.0
DHR	0.8	13.1			45,631.4			436,695.5	36,266.0
<b>TOTAL</b>	<b>45.6</b>	<b>115.2</b>	<b>0.36</b>	<b>4.2</b>	<b>130,426.6</b>			<b>1,668,435.5</b>	<b>158,485.0</b>

Totals without DHR

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)	SO <sub>2</sub> Rate (lb/MMBtu)	NO <sub>x</sub> Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	0.1	16.7			14,034.5			236,143.0	18,386.0
DH2	44.6	80.2	0.36	4.2	49,019.5			629,750.0	60,999.0
DHCT3	0.0	0.0			0.0			0.0	0.0
JRKCC1	0.1	5.2			21,741.2			365,847.0	42,834.0
Without DHR	44.8	102.1	0.36	4.2	84,795.2			1,231,740.0	122,219.0

# WATER/WASTEWATER

PRODUCTION

MAINTENANCE

# Water/Wastewater November 2021 Dashboard

Production						
Murphree Water Treatment Plant						
		November 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.1	23	30	77%	
	Peak Daily Flow	24.3	25.7	54	48%	
Main Street Water Reclamation Facility						
		November 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	6.20	6.21	7.5	83%	
Kanapaha Water Reclamation Facility						
		November 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	13.5	13.1	14.9	88%	
Water Reclamation Facilities (Combined)						
		November 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	19.7	19.3	22.4	86%	
Maintenance						
Wastewater Collections						
		Nov 2021 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	5.74	10.61	5.0		
	Miles of gravity mains TV inspected	5.71	10.31	5.0		
Water Distribution						
		Nov 2021	FYTD	Monthly Goal		
	Number of Water Services Replaced	52	175	75		
SSO Monthly Summary						
		Nov 2021	YTD	GOAL (annual)		
	Sanitary Sewer Overflows	1	2	<22		

## Major Projects and Other Updates

**Recharge Wetland:** Issued a Request for Statement of Qualifications to firms to design and construct the wetland project. There are four responders and their submittals are being evaluated.

**MSWRF Progressive Design Build** - Grant applications submitted, completion of planning phase. Final scope has been determined (reduced) to meet budgetary requirements.

**Rattlesnake Creek:** Gravity sewer replaced by GRU crews and placed back in service. Well done.

**NW 14th St Upgrades:** Wastewater collection and water distribution completed all major work prior to August deadline. Great job!