

STATE OF THE UTILITY

July 2021

Item #210285

Acronym Key

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 1.055×10^8 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

July 2021

Safety

	First Aid	Current Month Recordable	DART
Administration	0	0	0
W/WW Systems	0	2	0
Energy Supply	0	1	1
Energy Delivery - Electric/Gas	0	0	0
GRUCom	0	0	0
Totals		3	

Employees

First Aid	Year to Date Recordable	DART
3	0	0
5	8	3
2	2	2
1	6	3
0	0	0
	16	

	Miles Driven*	Current Month Recordable	Preventable
Administration	9,672	0	0
W/WW Systems	55,929	0	0
Energy Supply	1,179	0	0
Energy Delivery - Electric/Gas	94,645	0	0
GRUCom	7,554	0	0
Totals	168,979	0	0

*Mileage data is for June, 2021. July mileage will be reported in the August report.

Vehicles

Miles Driven*	Year to Date Recordable	Preventable
78,671	0	0
546,866	6	5
14,737	0	0
923,557	9	5
59,922	0	0
1,623,753	15	10

Mileage YTD through June 2021

Environmental

	Current Month
Notices of Violation	0

Calendar Year to Date
0

Emissions		
DH1, DH2, DHCT3, JRKCC1		
CO ₂ (tons)	110,235	
NO _x (tons)	142	
SO ₂ (tons)	56	
DH Unit 2 (only)		
PM _{FILT} (tons)	7	
Hg (lbs)	0.20	
DHR		
CO ₂ (tons)	77,913	
NO _x (tons)	22	
SO ₂ (tons)	1	

580,415
822
365
45
2.29
564,657
163
10

Regulatory

NERC	
Notice of Violations	0
Self Reports/Potential Violations	1

Fiscal Year to Date
5*
2

*includes determinations made in FY2021 for prior years, which is why there are more violations than potential violations

Personnel

	AUTHORIZED FTE	FILLED FTE	VACANCY	Last Month (June)
Administration	15.00	13	2.00	1.00
Chief Operating Officer	21.00	20	1.00	1.00
Customer Support Services	118.25	103	15.25	12.00
Energy Delivery	264.00	243	21.00	24.00
Energy Supply	194.00	172	22.00	19.00
Finance	42.00	32	10.00	9.25
GRUCom	38.00	32	6.00	5.00
Information Technology	71.00	69	2.00	5.00
Water Wastewater	169.00	161	8.00	8.00
Grand Total	932.25	845	87.25	84.25

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 2021 NERC compliance

Penalty violations

<u>Determination date</u>	<u>Description</u>
N/A	No penalties to-date for FY 2021

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

<u>Determination date</u>	<u>Description</u>
10/30/2020 (FY2020)	Two relay settings not adjusted in accordance with PRC-023-4 for 18 months
11/23/2020 (FY2020)	Substation control house door left unsecure for 9 hours
1/25/2021 (FY2020)	Failure to issue door alarms for 5 days due to email system configuration error
4/13/2021 (FY2019)	35 Cyber Assets were delayed in being included under GRU's Critical Infrastructure Protection (CIP) program
6/29/2021	Over-generation per RC operating instruction. Clock-minute average of Reporting ACE exceeds clock-minute Balancing Authority ACE Limit (BAAL) for 34 consecutive clock-minutes (NERC allows up to 30 minutes)

Potential violations (Pending regulatory agency determination)

<u>Report date</u>	<u>Description</u>
4/16/2020 (FY2020)	Failure to update baseline documents within 30 days of a change to a cyber asset
7/8/2021	Smartphone connected to generation cyber system before virus scan

Utility Advisory Board Monthly Report – FY 2021 Safety Data Summary

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

OCTOBER

- ~~10/1/2020 – While removing bolts with a ratchet wrench on a regulator at the Alachua Farm tap, employee strained his back. (DART) Determined to be a personal condition, not work-related.~~

NOVEMBER

- None reported

DECEMBER

- 12/24/2020 – Employee was removing the insulation off an underground cable when his knife slipped and he cut the pad of his right thumb.
- 12/26/2020 – While removing a wire from under a downed tree, the employee felt a pull in his lower back. It got progressively worse, requiring medical treatment and restricted duty. (DART)

JANUARY

- 1/7/2021 – employee slipped and fell injuring his left ankle, left leg and left side lower back when a magnetic tool turned loose from man hole lid and employee fell. (DART)
- 1/11/2021 – While warning signs to posts, employee accidentally shot a staple into his right thumb. (DART)
- 1/14/2021 – Employee got debris in his right eye while running chainsaw causing bad eye irritation.

FEBRUARY

- 2/17/2021 – An employee was struck in the face with a switch handle he was installing when the pliers he was using slipped, hit and released the handle causing a cut that required stitches.
- 2/22/2021 – While removing a manhole cover with a long hook, the hook slipped off, causing a strain to his left shoulder.

MARCH

- 3/22/2021 – Walking to an electric meter, the employee's left foot was punctured by two nails sticking through a board that was stepped on.

APRIL

- 4/3/2021 – While walking down the stairs, an employee fell, but caught himself, causing a back strain.
- 4/14/2021 – When cutting down a tree, as the tree fell, an attached vine caught the chain saw and brought it to his leg, causing a laceration. (DART)

MAY

JUNE

- 6/2/21 - While climbing down off an excavator, he felt discomfort in his lower back which became worse.
- 6/12/21 - While doing house keeping employee tripped on palet with steel pate in hand. Smashed thumb between plate and floor.
- 6/22/21 - While walking to the ICE Tech shop, employee slipped in an area of mud and fell, straining her back.

JULY

- 7/7/21 - While unlocking a 4" hose from the back of a tank truck, the fitting bound up. While getting it loose, it came loose suddenly, hitting the employee in the right cheek causing a laceration to the face.
- 7/8/21 - Employee jarred back after road caved in under loader tire during travel
- 7/19/21 - While at the console in the Main Street Operations room, an employee turned around in the chair and struck his right knee against the brace under the counter causing a contusion

AUGUST

SEPTEMBER

End of FY 2021

Utility Advisory Board Monthly Report – FY 2021 Vehicle Collision Summary

Vehicle Collisions (P) indicates preventable by our employee

OCTOBER

- 10/1/2020 – While stopped at a red light, the driver of our vehicle leaned over to put something in the passenger seat, taking his foot off the brake and rolling into the vehicle in front of him. Very minor damage and no injuries. (P)
- 10/26/2020 – an employee was backing up, when a private vehicle backing out of an adjacent driveway backed into the right rear of U1646 causing damage to both vehicles. There were no injuries (P)

NOVEMBER

- 11/25/2020 – After backing into a right of way and stopping, employee went to leave and turned sharp right and the passenger side of his vehicle came into contact with a partial hidden stump causing damage to passenger side of truck. (P)

DECEMBER

- 12/18/2020 – Employee collided with a deer crossing the road. Minor damage to the front grill.

JANUARY

- None reported

FEBRUARY

- 2/15/2021 – A citizen came up to GRU driver at the Kanapaha WRF and said he had scraped the front fender of her car during the turn from 8th Ave to Newberry Road. This is being investigated. (P)

MARCH

- 3/4/2021 – Employee was traveling southbound on North Main Street. While waiting at the red light, a person towing a U-Haul trailer exited the parking lot behind our truck. When she tried to turn right, the trailer hit the rear bumper of our truck. Minor damage only.

APRIL

- 4/14/2021 – While backing up from opening the gate for a contractor, the employee scraped the front bumper of a car parked just off the roadway with this right-side rear bumper. (P)
- 4/15/2021 – Employee was rear-ended by a private driver while waiting at a red-light in eastbound traffic. Both vehicles received minor damage.

MAY

- 5/11/21 - Employee backed into a car pulling into a parking lot scratching car wheel. (P)
- 5/19/21 - While pulling out from an apartment complex, our driver thought the oncoming lane was clear, but as another car came into view, our driver stopped. The citizen swerved to avoid and hit a curb in the median. (P)
- 5/20/21 - Employee was pulling out into heavy traffic when he thought he had an opening but struck a vehicle with his bumper causing damage. The employee did not give the other vehicle enough time to go by.(P)
- 5/25/21 - Employee was waiting in southbound outside lane when hit from behind by a private driver that failed to stop. Minor bumper damage was the result of the collision.
- 5/27/21 - Employee was rear ended while waiting in westbound traffic. Private party indicated that their brakes had failed. Bumper damage and minor body damage were the result of the collision.

JUNE

- 6/4/21 - Traveling N. on 28 Terr. U1242 was hit on the passenger's side by a private vehicle that failed to yield the ROW.
- 6/14/21 - While driving a service truck and towing a trailer, the driver thought there wasn't any oncoming traffic and made a left turn. There were oncoming vehicles behind a stopped truck and one of them collided with the back portion of our trailer. There were no reported injuries at the site.
- 6/24/21 - GRU employee rear ended a private driver that cut in front of the GRU bucket truck and braked hard. Private driver braked hard again after pulling up and vehicles collided again while moving over in heavy traffic and rain.

JULY

- None reported

AUGUST

SEPTEMBER

End of FY 2021

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary July 2021

Active Accounts	Jul-21	YTD Gain/Loss	FY20
<i>Residential Contract Accounts</i>			
Total	94,845	980	93,865
Electric	87,498	767	86,731
Gas	34,653	448	34,205
Water	64,626	397	64,229
Wastewater	60,361	327	60,034
Telecomm	0	(87)	87

New Installations	Jul-21	FY21 To Date	FY20
Electric	191	1550	2430
Gas	32	672	558
Water	31	646	744
Wastewater	29	660	667
Telecomm	0	18	131

Call Center Volume	Jul-21	FY21 To Date	FY20
Residential ASA	0:26:13	0:15:08	0:03:41
Business ASA	0:05:28	0:03:17	0:02:27
CSR Calls	24,826	176,895	188,834
CSR Callbacks	6,871	35,751	12,488
IVR Self Service	25,254	155,507	201,731
Total	56,951	368,153	403,053
IVR/Total	44%	42%	50%

Bills Generated	Jul-21	FY21 To Date	FY20
Paper Bills	73,623	947,550	1,301,286
eBills	27,171	208,533	237,475
Total	100,794	1,156,083	1,538,761
eBill/Total	27%	18%	15%

Payment Arrangements	Jul-21	FY21 To Date	FY20
Total	563	7,773	7,129

Customer Experience	Jul-21	FY21 To Date	FY20
Overall CSAT	3.80	4.00	N/A
Number of Responses	264	1,888	N/A
Number of Surveys Sent	3,248	21,625	N/A
Response Rate	8%	9%	N/A

Active Accounts	Jul-21	YTD Gain/Loss	FY20
<i>Nonresidential Contract Accounts</i>			
Total	13,192	(428)	13,620
Electric	11,033	1	11,032
Gas	1,662	(4)	1,666
Water	5,906	(5)	5,911
Wastewater	4,671	(1)	4,672
Telecomm	0	(403)	403

Residential Disconnects	Jul-21	FY21 To Date	FY20
Volume	1,121	11,890	7,791
Average Balance	\$233.27	\$242.32	\$175.34

Revenue Assurance	Jul-21	FY21 To Date	FY20
Referred to Collections	\$80,980.61	\$1,704,092.64	\$1,495,829.79
Recovered	\$65,054.07	\$946,158.14	\$804,667.00

Service Orders	Jul-21	FY21 To Date	FY20
Move Ins	16,219	86,753	106,868
Move Outs	15,633	84,593	106,929

Average Res Bill Amounts	Jul-21	FY21 To Date	FY20
Electric (kWh)	969	777	830
Electric (\$)	\$140.45	\$114.13	\$124.21
Gas (Therms)	11	23	18
Gas (\$)	\$23.10	\$36.36	\$32.65
Water (kGals)	5	5	5
Water (\$)	\$30.75	\$30.63	\$31.49
Wastewater (kGals)	5	5	5
Wastewater(\$)	\$35.98	\$37.26	\$37.67

Annual Relationship	Jul-21	FY21 To Date	FY20
Overall CSAT	0.00	3.40	N/A
Number of Responses	0	8,719	N/A
Number of Surveys Sent	52,363	52,363	N/A
Response Rate	0%	17%	N/A

ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

Energy Delivery - UAB Report - July 2021

Durations Reliability Report Between 07/01/2021 and 07/31/2021				
Excludes Extreme Weather and Generation/Transmission Disturbances				
CUSTOMER DATA	RELIABILITY INDICES			MONTHLY AVG GOAL
Monthly Average Customers Served(C)	99,938	Average Service Availability Index (ASAI)	99.9511%	
Total Hours of Customer Demand	74,353,872	System Average Interruption Duration Index (SAIDI)	21.83	4.5
Total Number of Outages	129	Customer Average Interruption Duration Index (CAIDI)	74.66	60
Total Number of Customers Affected (CI)	29,219	System Average Interruption Frequency Index (SAIFI)	0.29	0.08
Total Customer Minutes Interrupted (CMI)	2,181,492			
Total Customer "Out Minutes"	23,196	Average Length of a Service Interruption (L-Bar)	179.81 Mins	
Cause of Outages				
Cause	Overhead	Underground	Both	Total
0. Undetermined	10	0	0	10
1. Weather	12	0	1	13
2. Vegetation	67	3	1	71
3. Animals	4	1	0	5
4. Foreign Interference	0	0	0	0
5. Human Cause	1	0	0	1
6. Equipment Failure	3	13	6	22
7. All Remaining Outages	0	0	5	5
Total	97	17	13	127

Durations Reliability Report Between 01/01/2021 and 07/31/2021*				
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)	99.9826%	
Total Hours of Customer Demand	508,484,544	System Average Interruption Duration Index (SAIDI)	53.19	18
Total Number of Outages	525	Customer Average Interruption Duration Index (CAIDI)	62.91	60
Total Number of Customers Affected (CI)	84,496	System average Interruption Frequency Index (SAIFI)	0.85	0.32
Total Customer Minutes Interrupted (CMI)	5,315,798			
Total Customer "Out Minutes"	100,557	Average Length of a Service Interruption (L-Bar)	191.54 Mins	
Cause of Outages				
Cause	Overhead	Underground	Both	Total
0. Undetermined	32	1	2	35
1. Weather	41	4	3	48
2. Vegetation	197	9	12	218
3. Animals	58	4	1	63
4. Foreign Interference	0	0	0	0
5. Human Cause	19	5	4	28
6. Equipment Failure	26	69	25	120
7. All Remaining Outages	0	0	5	5
Total	373	92	52	517
* REPORTED AS CALENDAR YEAR				

	GRU	GRU	EIA - All	EIA - Public	FMPA
	CY 2021 Goal	CY 2020 Actual	CY 2019	CY 2019	CY 2020
SAIDI	55 Mins	60.69	144.16	62.31	89.06
CAIDI	60 Mins	54.57	83.35	65.09	65.45
SAIFI	1.0 or less	1.11	1.66	0.98	1.360

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 - July 2021

Electric System Consumption

	2021		2020	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	95 KWH	99	54 KWH	101
Feed-In-Tariff - General Service	2,618 KWH	156	2,305 KWH	157
Electric - GS - Demand - Regular	52,619,553 KWH	1,083	52,828,217 KWH	1,173
Electric - General Service Demand PV	1,036,289 KWH	21	1,017,072 KWH	22
Electric - GS - Kanapaha w Curtail Cr	1,099,200 KWH	1	1,132,800 KWH	1
Electric - GS - Demand - Large Power	7,779,000 KWH	6	8,458,080 KWH	7
Electric - GS - Murphree Curtail Credit	1,372,800 KWH	1	1,432,800 KWH	1
Electric - GS Large Demand PV	4,588,800 KWH	2	4,324,800 KWH	2
Electric - GS - Non Demand	16,658,211 KWH	9,488	17,770,189 KWH	9,880
Electric - General Service PV	140,029 KWH	71	165,592 KWH	72
Electric - Lighting - Rental	867,256 KWH	3,824 <i>n</i>	937,322 KWH	4,015 <i>n</i>
Electric - Lighting - Street - City	416,801 KWH	13 <i>n</i>	597,750 KWH	12 <i>n</i>
Electric - Lighting - Street - County	131,549 KWH	2 <i>n</i>	131,462 KWH	2 <i>n</i>
Electric - Lighting - Traffic	0 KWH	0	4,542 KWH	2
Electric - Residential - Non TOU	80,737,926 KWH	85,685	94,167,697 KWH	88,629
Electric - Residential PV	486,546 KWH	639	424,299 KWH	464
Total Retail Electric	167,936,673 KWH	97,252	183,394,981 KWH	100,511
City of Alachua	13,735,565 KWH	27,515	13,927,605 KWH	28,012
Total (Native) Electric	181,672,238 KWH		197,322,586 KWH	

(n = not included in total customer count)

Gas System Consumption

	2021		2020	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	594,555 THM	1,193	565,009 THM	1,363
Gas - GS - Regular Service (Small)	5,610 THM	299	4,333 THM	311
Gas - GS - Interruptible - Regular Serv	27,246 THM	1	18,160 THM	1
Gas - GS - Interruptible - Large Volume	370,573 THM	7	372,735 THM	7
Gas - Residential - Regular Service	347,307 THM	34,625	345,209 THM	34,621
Total Retail Gas	1,345,291 THM	36,125	1,305,446 THM	36,303
Gas - GS - UF Cogeneration Plant	3,163,982 THM	1	2,910,875 THM	1
Gas - Residential - LP - Basic Rate	2,923 GAL	200	2,581 GAL	204

Energy Delivery - UAB Report - July 2021

Major Electric Design Projects

- > VA Mental Health Hub & Outpatient Clinic (34th Street)
- > The Mark - Multi-Family Development
- > The Blount Center - Santa Fe College
- > Serenola Main Line Improvements
- > Tara St. Augustine - Single-Family Residences

Major Gas Design Projects

- > Main Installation – Parker Rd – 8000' 8"PE
- > Main Installation – VA Clinic SW Archer Rd – 611'
- > Valve Maintenance & CP Readings
- > Main Installation – UF Auxiliary Library NE 39th Ave – 831'
- > Main Installation – Compton SW 127th St – 500'

New Gas Services installed in July 2021: 34 New Customers

ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

July 2021

Energy Supply - CAPACITY

Energy Supply - Performance Parameter

Source

Unit Capability output - MWn

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

Month	YTD	Budget YTD	Delta Budget
69,117	498,294	252,117	246,177
19,616	213,802	98,265	115,537
51,603	334,757	542,271	(207,514)
842	10,129	2,557	7,572
5,989	139,319	218,205	(78,886)
47,001	385,118	422,467	(37,349)

Fuels Consumed

	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	13,757	140,373	146,603	(6,230)
Gas - MCF	1,180,797	8,849,134	6,128,892	2,720,242
Fuel oil - Gals	4,246	206,665	-	206,665
Biomass - Tons	66,083	508,645	722,793	(214,148)

Availability/Capacity

	Availability			Capacity		
	Month	FY 2021 YTD	FY 2020 YTD	Month	FY 2021 YTD	FY 2020 YTD
DH-2	98.24%	88.28%	79.84%	42.90%	32.37%	13.44%
DH-1	98.82%	99.04%	91.96%	36.45%	40.67%	33.48%
Kelly CC	86.85%	56.96%	94.14%	65.55%	41.65%	85.89%
DH CT-1	100.00%	97.31%	97.40%	0.00%	0.18%	0.24%
DH CT-2	100.00%	96.47%	96.83%	0.00%	0.15%	0.23%
DH CT-3	100.00%	99.92%	99.59%	1.44%	1.98%	1.82%
DHR	100.00%	78.03%	89.14%	64.54%	53.96%	51.77%

Date: As of August 3, 2021: Major Energy Supply Projects/Milestones Updates:

1. Deerhaven Generating Station (DH):

a. Deerhaven Unit #2:

- i. The retrofit project has gone well from standpoint of being able to burn natural gas up to 175 MW of load. The outstanding issue is we have not been able to get the main gas valve to operate in automatic mode as required. We have operated the valve in manual with no issues, and the OEM for the valve states that the valve actuator capability is inadequate to put valve in auto. We are working with the OEM to resolve the valve actuator issue design. Once this issue is resolved we will be conducting a full load test of DH2 to determine maximum load on natural gas, as well as the associated heat rate curves. s going very well.
- ii. We have received one train of coal the week of 7/26/2021, and are working on a second train to be delivered in August as well. We will need this train to ensure we have adequate inventory of coal in situations where we may not have adequate availability of natural gas to meet our customer loads.

b. Deerhaven Unit #1 (DH1)

- i. We are still working with OEM (Siemens), and other similar vendors, for life time assessment of Turbine and Generator originally set to retire in 2022. This assesment, and turbine inspection, will be executed in spring of 2022. Budgetary estimated for this lifetime assessment, and associated outage in FY2022 is still in the FY2022 budget submittals.

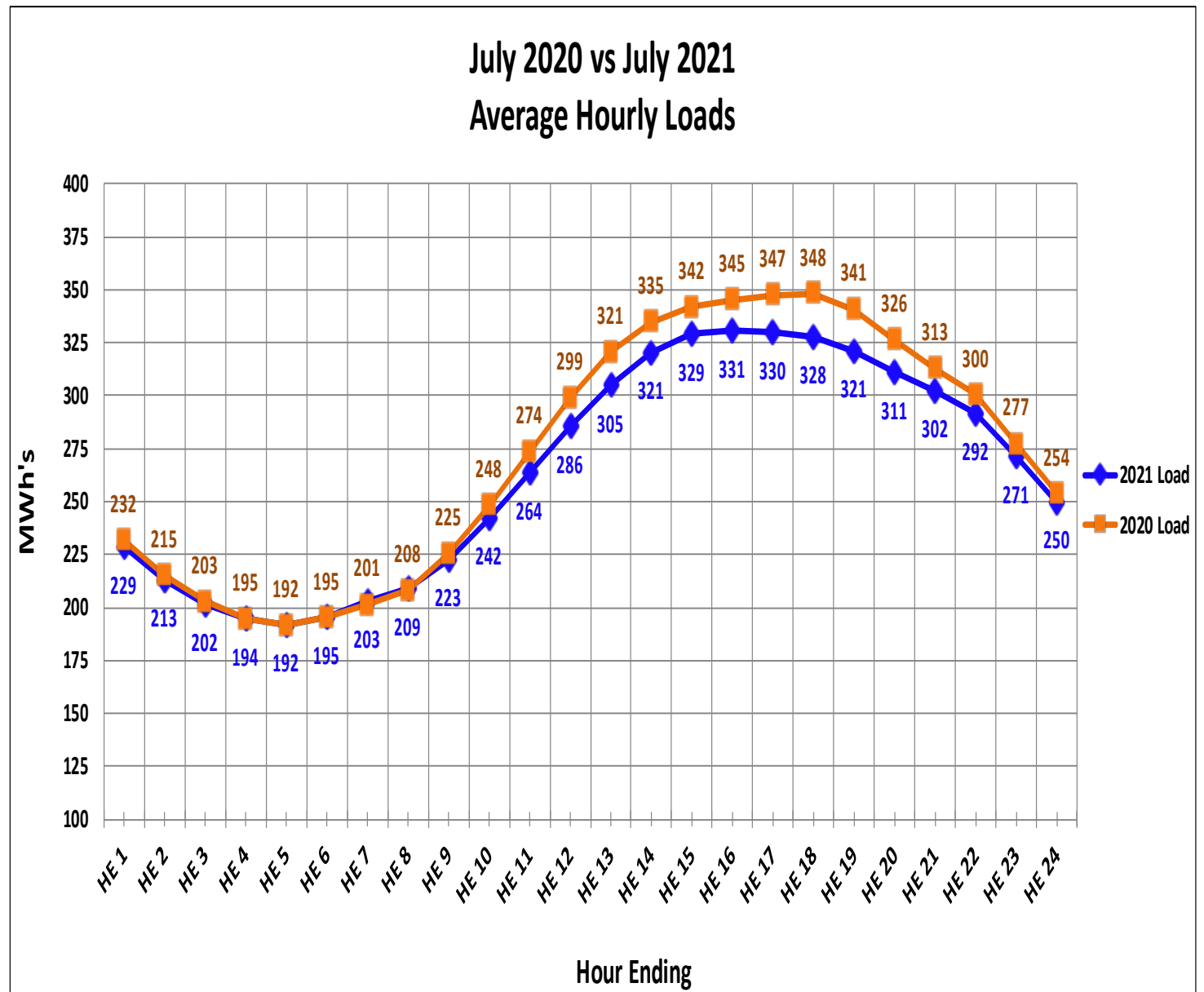
2. Kelly Generating Station (JRK):

- a. The extended outage for Unit #8 Turbine & Generator replacement, and associated commissioning is completed successfully. We are currently coordinating the combined cycle emission testing and unit optimization with the new turbine and generator. Initial load achieved thus far on new Unit #8 has been 39.8 MW, which is over 3 MW more than our original unit. This is a significant milestone. Once the optimization is completed we will perform heat rate testing of the unit to determine new combined cycle unit efficiency.

3. South Energy Center (SEC):

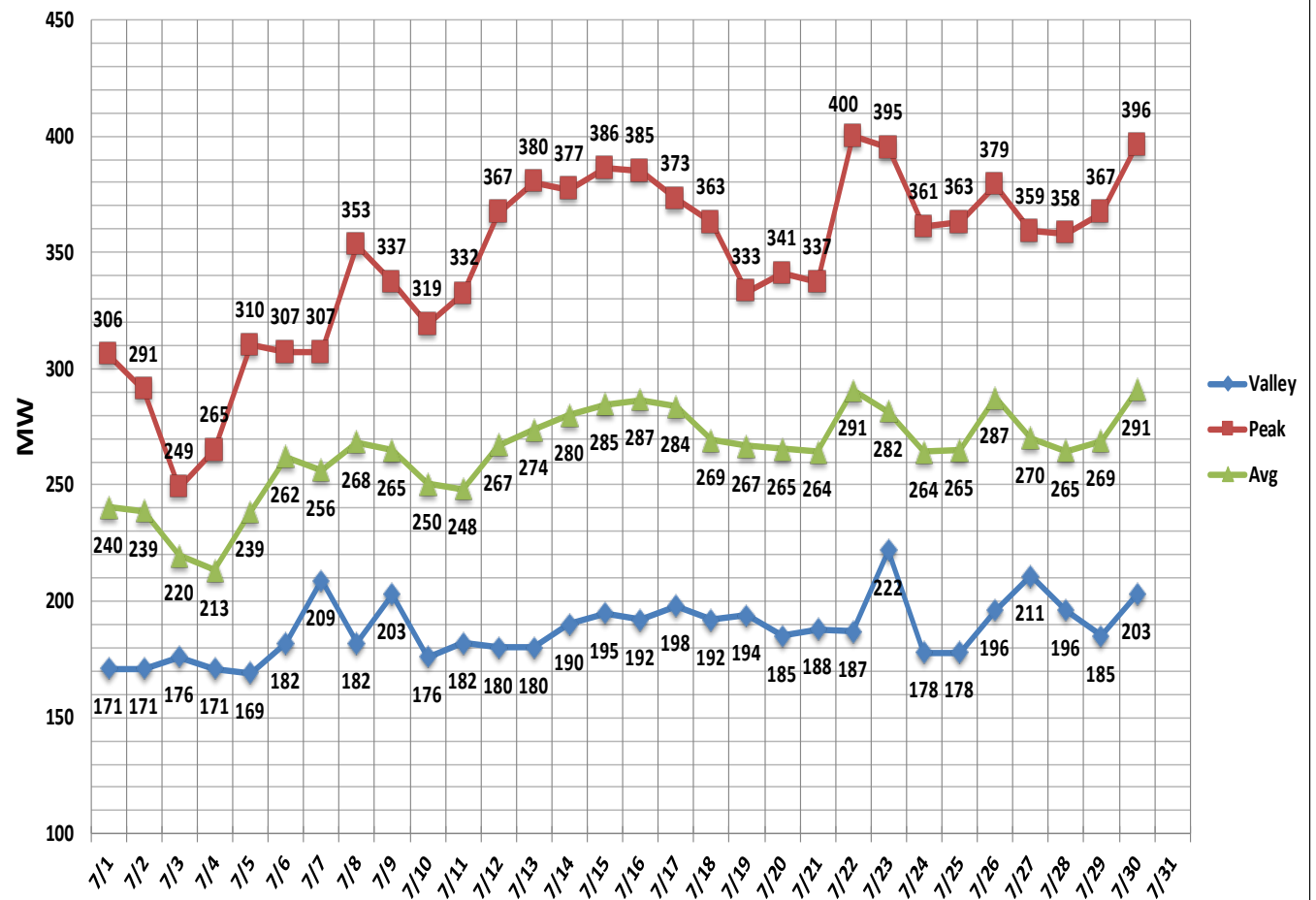
- a. Solar engine emission testing in progress.

July Average Hourly Loads		
Hour Ending	2020 Load	2021 Load
HE 1	232	229
HE 2	215	213
HE 3	203	202
HE 4	195	194
HE 5	192	192
HE 6	195	195
HE 7	201	203
HE 8	208	209
HE 9	225	223
HE 10	248	242
HE 11	274	264
HE 12	299	286
HE 13	321	305
HE 14	335	321
HE 15	342	329
HE 16	345	331
HE 17	347	330
HE 18	348	328
HE 19	341	321
HE 20	326	311
HE 21	313	302
HE 22	300	292
HE 23	277	271
HE 24	254	250



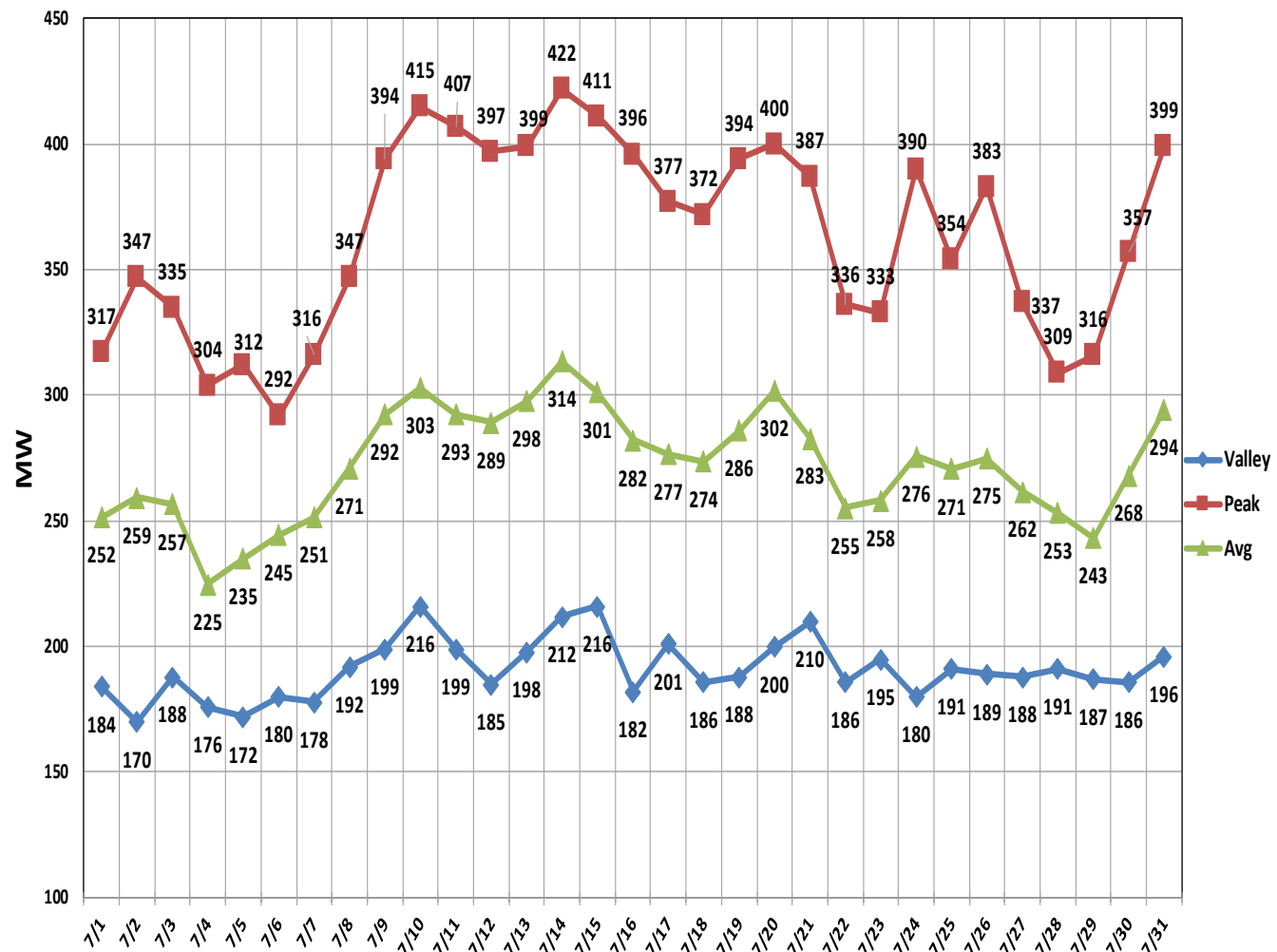
Date	Valley	Peak	Avg
7/1/2021	171	306	240
7/2/2021	171	291	239
7/3/2021	176	249	220
7/4/2021	171	265	213
7/5/2021	169	310	239
7/6/2021	182	307	262
7/7/2021	209	307	256
7/8/2021	182	353	268
7/9/2021	203	337	265
7/10/2021	176	319	250
7/11/2021	182	332	248
7/12/2021	180	367	267
7/13/2021	180	380	274
7/14/2021	190	377	280
7/15/2021	195	386	285
7/16/2021	192	385	287
7/17/2021	198	373	284
7/18/2021	192	363	269
7/19/2021	194	333	267
7/20/2021	185	341	265
7/21/2021	188	337	264
7/22/2021	187	400	291
7/23/2021	222	395	282
7/24/2021	178	361	264
7/25/2021	178	363	265
7/26/2021	196	379	287
7/27/2021	211	359	270
7/28/2021	196	358	265
7/29/2021	185	367	269
7/30/2021	203	396	291
7/31/2021			

July 2021
Peak, Valley, and Average Loads



Date	Valley	Peak	Avg
7/1/2020	184	317	252
7/2/2020	170	347	259
7/3/2020	188	335	257
7/4/2020	176	304	225
7/5/2020	172	312	235
7/6/2020	180	292	245
7/7/2020	178	316	251
7/8/2020	192	347	271
7/9/2020	199	394	292
7/10/2020	216	415	303
7/11/2020	199	407	293
7/12/2020	185	397	289
7/13/2020	198	399	298
7/14/2020	212	422	314
7/15/2020	216	411	301
7/16/2020	182	396	282
7/17/2020	201	377	277
7/18/2020	186	372	274
7/19/2020	188	394	286
7/20/2020	200	400	302
7/21/2020	210	387	283
7/22/2020	186	336	255
7/23/2020	195	333	258
7/24/2020	180	390	276
7/25/2020	191	354	271
7/26/2020	189	383	275
7/27/2020	188	337	262
7/28/2020	191	309	253
7/29/2020	187	316	243
7/30/2020	186	357	268
7/31/2020	196	399	294

July 2020
Peak, Valley, and Average Loads



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

GRU Scope:

Milestone	Expected Completion Date	Status	Notes
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	Advanced 1 month to coordinate with revised Origis schedule
Operating Procedures	11/2021	Pending	
Scheduled Commercial Operation	12/31/2021	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.

Prepared 8/3/2021

City Commission - FY21 - 3QTR Coal Sourcing Report

Month Coal Delivered	Coal Supplier(s)	Mine	Tons	Deep	MTR	Surface (No MTR)
Apr-21			0.00			
May-21			0.00			
Jun-21			0.00			
Total			0.00			

Notes:

1. No coal purchased in FY21 - 3QTR.

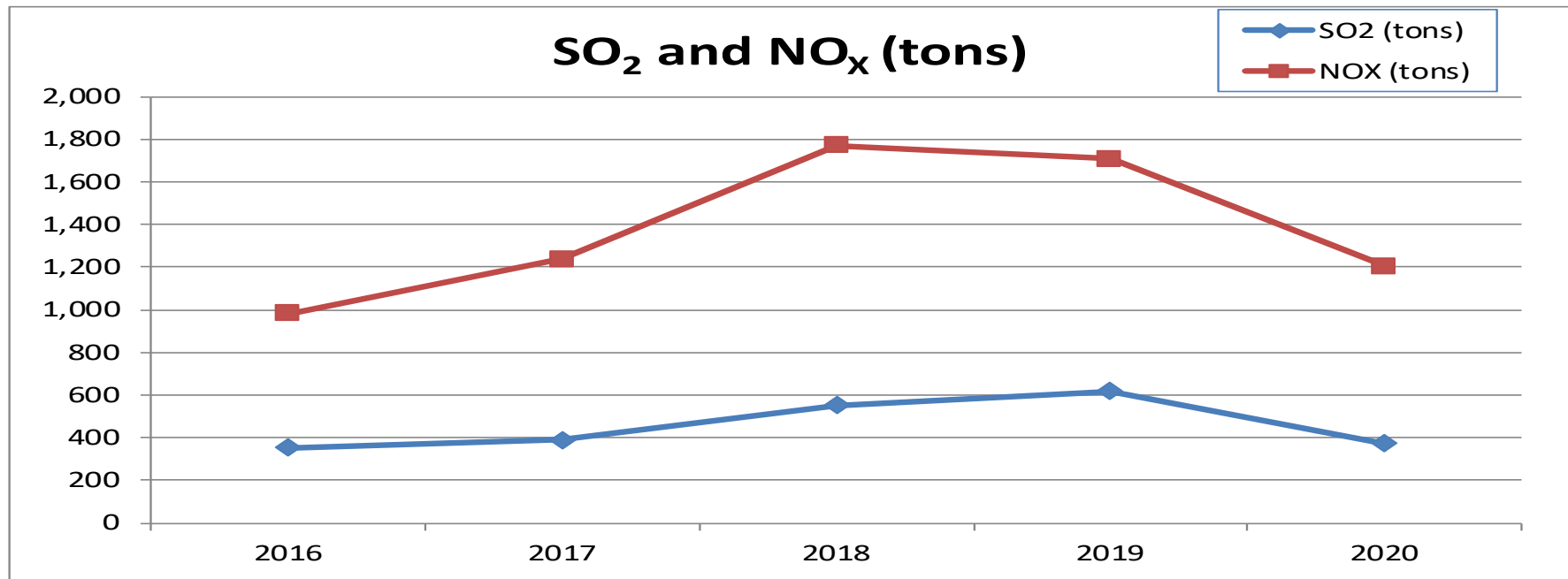
ENVIRONMENTAL PERMITTING

EMISSIONS DATA

Yearly Emissions

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (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 July)	375	985	2.29	45.2	1,145,071

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

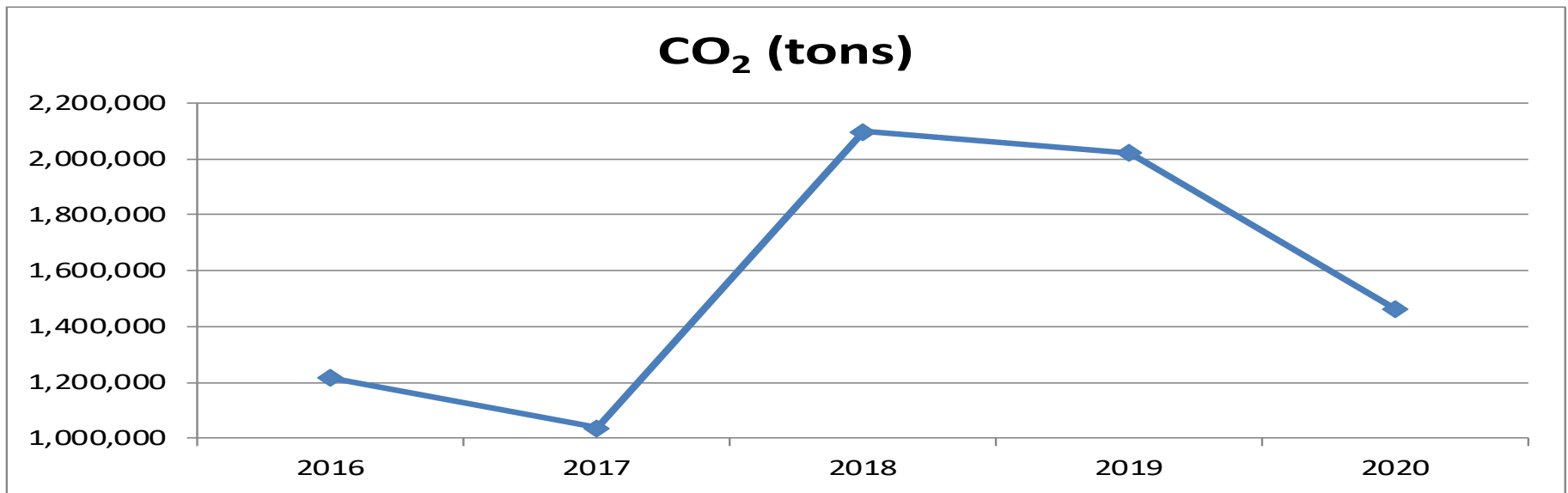


SO₂ was lower in 2015, 2016, and 2017 due to higher removal rate settings to assure compliance with the MATS Rule.

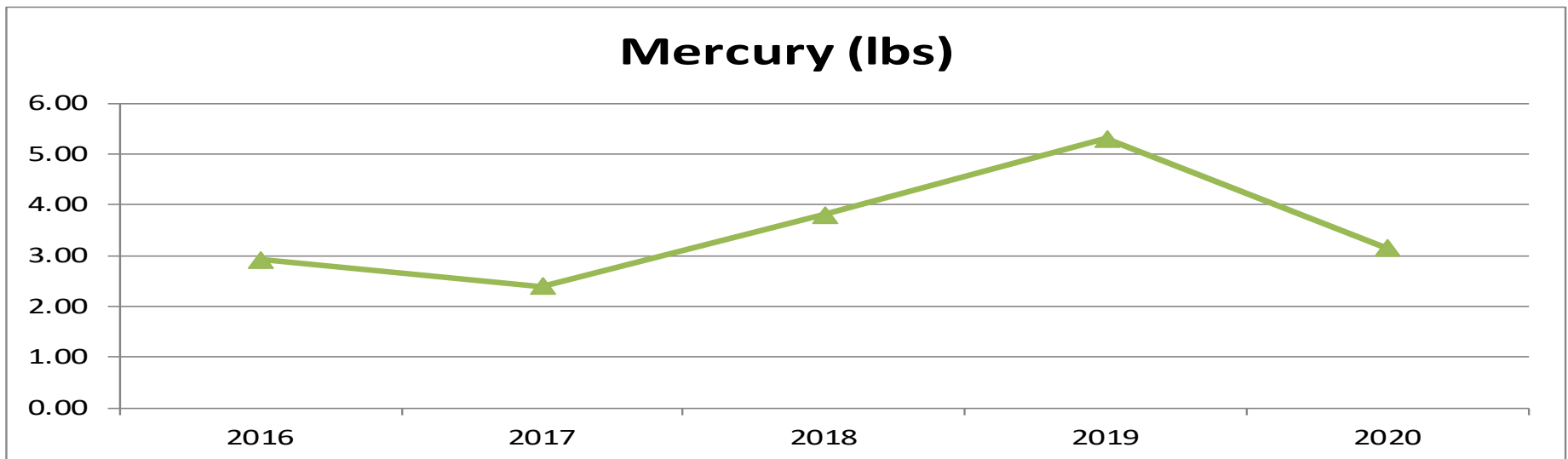
NO_x was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate. NO_x was higher in 2017 since the Cross State Rule was no longer in effect for Florida.

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

Yearly Emissions

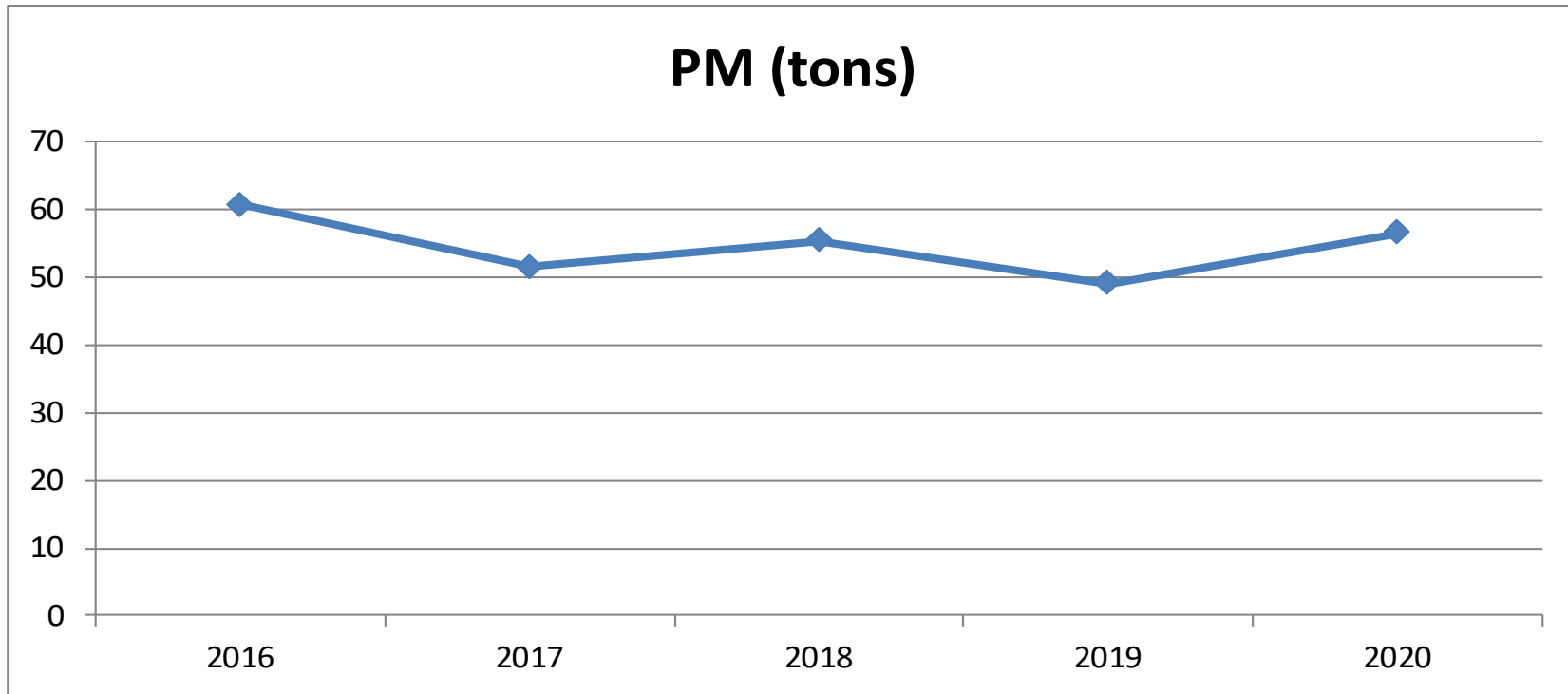


2018 and later data include DHR. The previous years did not include DHR.



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

Yearly Emissions



YTD - 2021 July

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)	SO ₂ Rate (lb/MMBtu)	NO _x Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	21.8	149.6			117,489.4			1,966,865.0	172,949.0
DH2	342.5	651.0	2.29	45.2	367,942.8			4,309,801.0	416,751.0
DHCT3	0.0	0.3			9,617.5			161,873.0	11,305.0
JRKCC1	0.3	21.4			85,365.1			1,436,413.6	149,075.0
DHR	10.2	162.5			564,656.5			5,411,220.0	401,819.0
TOTAL	374.8	984.8	2.29	45.2	1,145,071.3			13,286,172.6	1,151,899.0

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)	SO ₂ Rate (lb/MMBtu)	NO _x Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	21.8	149.6			117,489.4			1,966,865.0	172,949.0
DH2	342.5	651.0	2.29	45.2	367,942.8			4,309,801.0	416,751.0
DHCT3	0.0	0.3			9,617.5			161,873.0	11,305.0
JRKCC1	0.3	21.4			85,365.1			1,436,413.6	149,075.0
without									
DHR	364.6	822.3	2.290	45.2	580,414.8			7,874,952.6	750,080.0

WATER/WASTEWATER

PRODUCTION

MAINTENANCE

Water/Wastewater July 2021 Dashboard

Production						
Murphree Water Treatment Plant						
		July 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.3	23.3	30	78%	
	Peak Daily Flow	24.9	25.9	54	48%	
Main Street Water Reclamation Facility						
		July 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	10.19	6.17	7.5	82%	
Kanapaha Water Reclamation Facility						
		July 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	17.7	12.3	14.9	83%	
Water Reclamation Facilities (Combined)						
		July 21	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	27.9	18.5	22.4	82%	
Maintenance						
Wastewater Collections						
		July 2021 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	3.81	68.10	5.0		
	Miles of gravity mains TV inspected	2.13	61.14	5.0		
Water Distribution						
		July 2021	FYTD	Monthly Goal		
	Number of Water Services Replaced	97	1,168	75		
SSO Monthly Summary						
		July 2021	YTD	GOAL (annual)		
	Sanitary Sewer Overflows	4	27	<22		

Major Projects and Other Updates

MWTP Backwash Tank: Finalizing painting work in next two weeks.

MSWRF Progressive Design Build - Finalizing project scope and cost

KWRF East MCC Phase 1 Project: Project continuing on schedule began on area 3 headworks channel. Concrete repair work underway.

KWRF Permit Issued: On June 3, 2021 a five-year renewal permit was issued for the plant.

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