

# STATE OF THE UTILITY

June 2017

# OPERATIONS SUMMARY

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

**Operations Summary - June 2017**

Safety			Employees			
	Current Month			Year to Date		
	First Aid	Recordable	DART	First Aid	Recordable	DART
Administration	0	0	0	0	0	0
W/WW Systems	0	0	0	1	5	1
Energy Supply	0	0	0	2	1	1
Energy Delivery - Electric/Gas	1	0	0	2	8	5
GRUCom	0	0	0	0	0	0
<b>Totals</b>		0			14	

	Current Month			Year to Date		
	Miles Driven	Recordable	Preventable	Miles Driven	Recordable	Preventable
Administration	13,028	0	0	132,665	1	1
W/WW Systems	79,987	3	1	682,989	6	2
Energy Supply	4,291	0	0	55,699	0	0
Energy Delivery - Electric/Gas	105,610	0	0	987,087	10	4
GRUCom	9,225	0	0	84,163	0	0
<b>Totals</b>	212,141	3		1,942,603	17	

Environmental			Current Month	Calendar Year to Date
Notices of Violation			0	0
<b>Emissions</b>				
DH1, DH2, DHCT3, JRKCC1				
	CO <sub>2</sub> (tons)		127,801	386,279
	NO <sub>x</sub> (tons)		152	383
	SO <sub>2</sub> (tons)		44.2	107.8
DH Unit 2 (only)				
	PM <sub>FILT</sub> (tons)		5	13
	Hg (lbs)		0.40	0.86

Regulatory			Current Month	Year to Date
NERC				
Notice of Violations			0	0
Self Reports/Potential Violations			0	0

Personnel			
	AUTHORIZED FTE	FILLED FTE	VACANCY
GRU-Administration/ Community Relations	4.00	4.00	0.00
GRU-Administration/ Electric Environmental Permitting Compliance	4.00	4.00	0.00
GRU-Administration/ Elect Reliability Compliance	2.00	2.00	0.00
GRU-Administration/ General Manager	9.00	6.00	3.00
GRU-Administration/ Legal Services	1.00	1.00	0.00
GRU-Customer Support Services	121.25	108.50	12.75
GRU-Customer Support Services/ Business Services	6.00	5.00	1.00
GRU-Customer Support Services/ Communications	5.00	5.00	0.00
GRU-Energy Delivery	265.00	240.00	25.00
GRU-Energy Supply	150.00	139.00	11.00
GRU-Energy Supply/ District Energy	10.00	10.00	0.00
GRU-Finance	29.50	26.00	3.50
GRU-GRUCom	39.00	35.00	4.00
GRU-Information Technology	63.00	51.00	12.00
GRU-Water/ Wastewater	169.00	154.00	15.00
<b>Grand Total</b>	<b>877.75</b>	<b>790.5</b>	<b>87.25</b>

# CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

## Customer Operations Metrics Summary June 2017

<b>Active Accounts</b>	Jun-17	YTD Gain/Loss	FY16
<i>Residential Contract Accounts</i>			
Total	89,817	952	88,865
Electric	83,446	772	82,674
Gas	33,069	270	32,799
Water	62,544	375	62,169
Wastewater	58,511	360	58,151
Telecomm	139	(14)	153

<b>Active Accounts</b>	Jun-17	YTD Gain/Loss	FY16
<i>Nonresidential Contract Accounts</i>			
Total	13,496	(97)	13,593
Electric	10,939	(95)	11,034
Gas	1,618	(2)	1,620
Water	5,882	29	5,853
Wastewater	4,638	34	4,604
Telecomm	337	23	314

<b>New Installations</b>	Jun-17	FY17 To Date	FY16
Electric	183	1329	1,638
Gas	27	310	589
Water	38	398	756
Wastewater	38	379	485
Telecomm	21	177	248

<b>Residential Disconnects</b>	Jun-17	FY17 To Date	FY16
Volume	1,510	11,095	14,593
Average Balance	\$232.34	\$243.50	\$247.00

<b>Call Center Volume</b>	Jun-17	FY17 To Date	FY16
Average Speed of Answer	0:04:15	0:04:07	0:07:04
CSR Calls	16,170	126,818	251,522
IVR Self Service	21,079	183,139	318,483
Total	37,249	309,957	570,005
IVR/Total	57%	59%	56%

<b>Revenue Assurance</b>	Jun-17	FY17 To Date	FY16
Referred to Collections	\$81,974.94	\$1,765,773.54	\$1,461,488.40
Recovered	\$77,625.72	\$450,202.66	\$361,420.79

<b>Bills Generated</b>	Jun-17	FY17 To Date	FY16
Paper Bills	106,782	925,846	1,300,894
eBills	15,733	146,132	179,960
Total	122,515	1,071,978	1,480,854
eBill/Total	13%	14%	12%

<b>Service Orders</b>	Jun-17	FY17 To Date	FY16
Move Ins	11,846	71,758	137,265
Move Outs	11,315	71,220	132,836

<b>Payment Arrangements</b>	Jun-17	FY17 To Date	FY16
Total	7,931	70,523	97,287

<b>Average Res Bill Amounts</b>	Jun-17	FY17 To Date	FY16
Electric (kWh)	935	724	840
Electric (\$)	\$137.57	\$108.60	\$126.96
Gas (Therms)	11	18	18
Gas (\$)	\$22.92	\$31.14	\$29.61
Water (kGals)	6	5	4
Water (\$)	\$34.77	\$32.13	\$27.47
Wastewater (kGals)	6	5	6
Wastewater(\$)	\$38.39	\$38.66	\$41.13

# ENERGY DELIVERY

ELECTRIC T&D  
SYSTEM RELIABILITY  
GAS

**ENERGY DELIVERY - UAB REPORT - JUNE 2017**

**Durations Reliability Report Between 6/01/2017 and 6/30/2017**

<b>CUSTOMER DATA</b>	<b>RELIABILITY INDICIES</b>		<b>MONTHLY AVG GOAL</b>	
Monthly Average Customers Served(C)	95,779	Average Service Availability Index (ASAI)	99.9955%	
Total Hours of Customer Demand	66,662,184	System Average Interruption Duration Index (SAIDI)	1.90 Mins	4.5 Mins
Total Number of Outages	95	Customer Average Interruption Duration Index (CAIDI)	24.53 Mins	55 Mins
Total Number of Customers Affected (CI)	7,410	System average Interruption Frequency Index (SAIFI)	0.08	0.08
Total Customer Minutes Interrupted (CMI)	181,739			
Total Customer "Out Minutes"	8,103	Average Length of a Service Interruption (L-Bar)	85.29 Mins	

**Outage Duration Times**

Average Hours 1  
 Maximum Hours 7  
 Minimum Hours 0

**Cause of Outages**

<b>Cause</b>	<b>Overhead</b>	<b>Underground</b>	<b>Undetermined</b>	<b>Total</b>
1. Weather	8	0	0	8
1. Vegetation	31	3	12	46
1. Animals	7	2	0	9
1. Foreign Interference	0	0	0	0
1. Human Cause	4	4	0	8
1. Undetermined	3	2	2	7
1. Equipment Failure	6	8	3	17
1. All Remaining Outages	0	0	0	0
Total	59	19	17	95

**Durations Reliability Report Between 1/01/2017 and 6/30/2017**

<b>CUSTOMER DATA</b>	<b>RELIABILITY INDICIES</b>		<b>MONTHLY AVG GOAL</b>	
Monthly Average Customers Served(C)	95,779.00	Average Service Availability Index (ASAI)	99.9935	
Total Hours of Customer Demand	413,765,280.00	System Average Interruption Duration Index (SAIDI)	16.73 Mins	4.5 Mins
Total Number of Outages	370.00	Customer Average Interruption Duration Index (CAIDI)	38.75 Mins	55 Mins
Total Number of Customers Affected (CI)	41,360.00	System average Interruption Frequency Index (SAIFI)	0.43	0.08
Total Customer Minutes Interrupted (CMI)	1,602,751.00			
Total Customer "Out Minutes"	39,560.00	Average Length of a Service Interruption (L-Bar)	106.92 Mins	

**Outage Duration Times**

Average Hours 1  
 Maximum Hours 9  
 Minimum Hours 0

**Cause of Outages**

<b>Cause</b>	<b>Overhead</b>	<b>Underground</b>	<b>Undetermined</b>	<b>Total</b>
1. Weather	26	6	2	34
1. Vegetation	101	8	23	132
1. Animals	36	6	7	49
1. Foreign Interference	1	1	0	2
1. Human Cause	11	9	4	24
1. Undetermined	11	6	3	20
1. Equipment Failure	30	62	16	108
1. All Remaining Outages	1	0	0	1
Total	217	98	55	370

## ENERGY DELIVERY - UAB REPORT - JUNE 2017

### Energy Delivery - Major Design Projects - Electric

#### Major Electric Design Projects underway:

- > Butler Plaza Town Center
- > Review for Boulevard Station, Butler Fire Station
- > Blues Creek Unit 7 – 16 residential units
- > Relocate Switchgear [at Holiday Inn] for roadway re-construction SW 43/32nd Street
- > The Windsor of Gainesville NW 83 St & 39th Ave – (Nursing Home)
- > One College Park (apartments)
- > CRA - NW 1st Ave (OH to UG conversion)
- > Ingenuity (office building)
- > Depot Ave. Phase #4 Project (relocation due to road work)
- > The Nine (apartments)

#### Major Electric Design Projects expected to start within 30 days:

- > Drury Inn & Suites – 4000 SW 40 Blvd (Hotel)
- > Butler Plaza Town Center Lights
- > Blues Creek Unit 5 PH 2&3 (Residential S/D, 50 lots)
- > Westchester PH 4B – 77 Single Family Lots
- > 43rd/53rd - Retail Development - Old Systems Control Building
- > SW 4th Ave OH to UG Conversion
- > Inception (mixed use development)
- > Exactech Inc. Parking Garage



## ENERGY DELIVERY - UAB REPORT - JUNE 2017

### **Energy Delivery - Major Construction Projects - Gas**

#### Major Gas Design Projects:

- > Prepare SW 4th Avenue bare steel removal plans.
- > Design for replacement of 3215 feet of bare steel gas main at 400-800 blocks SW 10th St.
- > Prepare permit request for and construction plans for The Windsor on NW 80th St (County), and 4205 NW 6th St, 100 ft (FDOT) and the Fairfield Inn along Archer Road and SW 37th Blvd (FDOT).
- > Receive County permit approval for Gloria's Way S/D gas system, 3,779 ft.
- > Prepare construction plans for Aloft Hotel, 1,400 ft.

#### Gas Division Activities in June 2017

- 1 Completed plan reviews (PR) on Exactech Expansion PR3 (Not Approved), North Florida Women's Physicians PR 3 (Not Approved), Burger King #2314 Archer Rd PR4 (Approved) and Bank of America PR 2 (Approved).
- 2 Completed plan reviews (PR) on Cascade Apartments PR3 (Approved), Celebration Pointe Blocks 6 & 13 PR 1 (Approved), Norton Trail PR 1 (Not Approved), Gamma Phi Beta Sorority PR 1 (Not Approved), 5500 Building PR1 (Approved), Meldon Manor PR5 (Approved) and Butler Fire Station PR 2 (Not Approved).
- 3 Completed plan reviews (PR) on Buckridge PR4 (Approved) and Alpha Omicron Phi Sorority PR 1 (Not Approved) and Butler Fire Station PR 2 (Not Approved).
- 4 Met with City engineer, site construction contractor and civil engineer on Depot Avenue gas main relocation at SW 7th Street. The contractor will clear extension of swale area. Coated steel gas main to be lowered in place by under-digging. A 1-1/4" plastic gas main will require relocation around storm basin.
- 5 Gas Construction, Engineering and Marketing reviewing options to extend gas service into Newberry.
- 6 Completed Main Extension on NW 34th St (near 441) for the new fire station.
- 7 Arbor Green Subdivision PH 2, Main Installation. In total, we will install 3700' of main. This project is approximately 70% complete.
- 8 We have been working on and off in the Butler Town Center and Celebration Point as construction is on-going in both of these projects.
- 9 The Gas Main and services have been installed for the new "Standard" building.
- 10 Main Installation in Oakmont Phase 2. In total we will install 2937' of main.
- 11 We completed several minor main extensions for new residential customers.
- 12 We began the annual gas leak survey. We have two men walk (with flame-packs) 20% of the system, additionally the business area gets surveyed annually. This is approximately a three month project.
- 13 New Hotels coming this summer: Staybridge, Drury Inn, Fairfield Inn, Aloft Hotel, Holiday Inn, Alachua.
- 14 We are using a replacement project primarily on NW 3rd St (near Univ. Ave.) as fill in work. When completed, we will have removed approximately 1.5 Miles of old black plastic and bare steel mains.

New Services installed in June: 43 – New Customer work/Not replacement work

## ENERGY DELIVERY - UAB REPORT - JUNE 2017

### Electric System Consumption

<b>ELECTRIC SYSTEM</b>	<b>CONSUMPTION</b>	<b>CUSTOMERS</b>
Feed-In-Tariff - Residential	52 KWH	102
Feed-In-Tariff - General Service	2,362 KWH	157
Electric - GS - Demand - Regular	53,520,823 KWH	1,203
Electric - General Service Demand PV	755,261 KWH	16
GREC Startup Supplemental and Standby	468,781 KWH	1
Electric - GS - Kanapaha w Curtail Cr	991,200 KWH	1
Electric - GS - Demand - Large Power	7,208,240 KWH	8
Electric - GS - Murphree Curtail Credit	1,600,800 KWH	1
Electric - GS Large Demand PV	4,072,800 KWH	2
Electric - GS - Non Demand	17,021,210 KWH	9,614
Electric - General Service PV	106,390 KWH	47
Electric - Lighting - Rental	1,013,299 KWH	4,358 <i>n</i>
Electric - Lighting - Street - City	792,903 KWH	14 <i>n</i>
Electric - Lighting - Street - County	299,343 KWH	2 <i>n</i>
Electric - Lighting - Traffic	4,542 KWH	2 <i>n</i>
Electric - Residential - Non TOU	77,574,996 KWH	85,380
Electric - Residential PV	173,873 KWH	198
Total Retail Electric ( <i>n</i> =not included in total)	<u>165,606,875 KWH</u>	<u>96,730</u>
City of Alachua	12,332,000 KWH	26,203 KW
City of Winter Park	7,200,000 KWH	10,000 KW
Total (Native) Electric	185,138,875 KWH	

## ENERGY DELIVERY - UAB REPORT - JUNE 2017

### Gas System Consumption

#### **GAS SYSTEM**

Gas - GS - Regular Service (Firm)	652,532 THM	1,341
Gas - GS - Regular Service (Small)	9,414 THM	254
Gas - GS - Interruptible - Regular Serv	32,348 THM	1
Gas - GS - Interruptible - Large Volume	349,860 THM	6
Gas - Residential - Regular Service	340,283 THM	33,469
Total Retail Gas	<u>1,384,437 THM</u>	<u>35,071</u>
Gas - GS - UF Cogeneration Plant	3,487,724 THM	1
Gas - Residential - LP - Basic Rate	2,470 GAL	196
GREC Gas (PGA Only)	17,370 THM	1

ENERGY SUPPLY

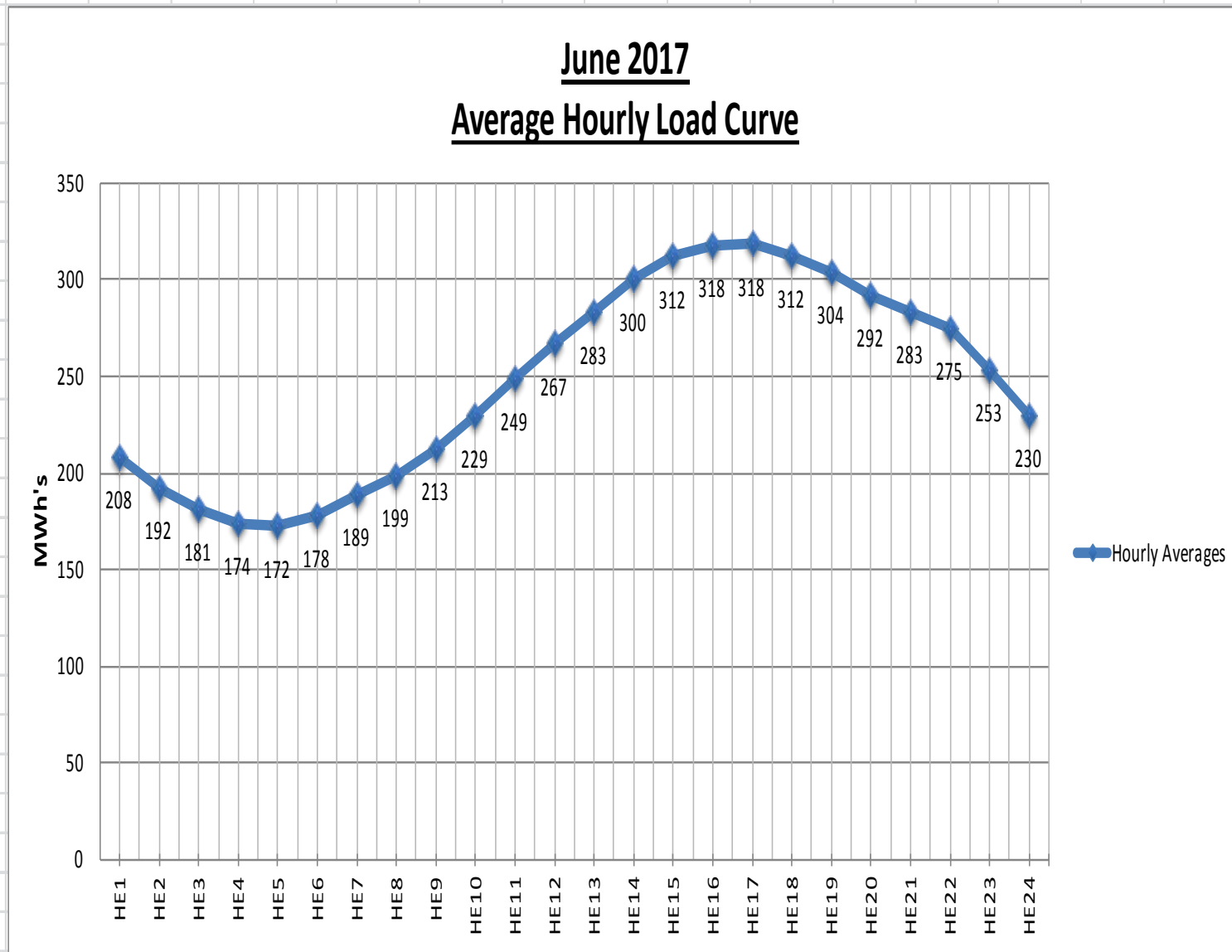
SYSTEM STATISTICS

ENERGY DISTRIBUTION

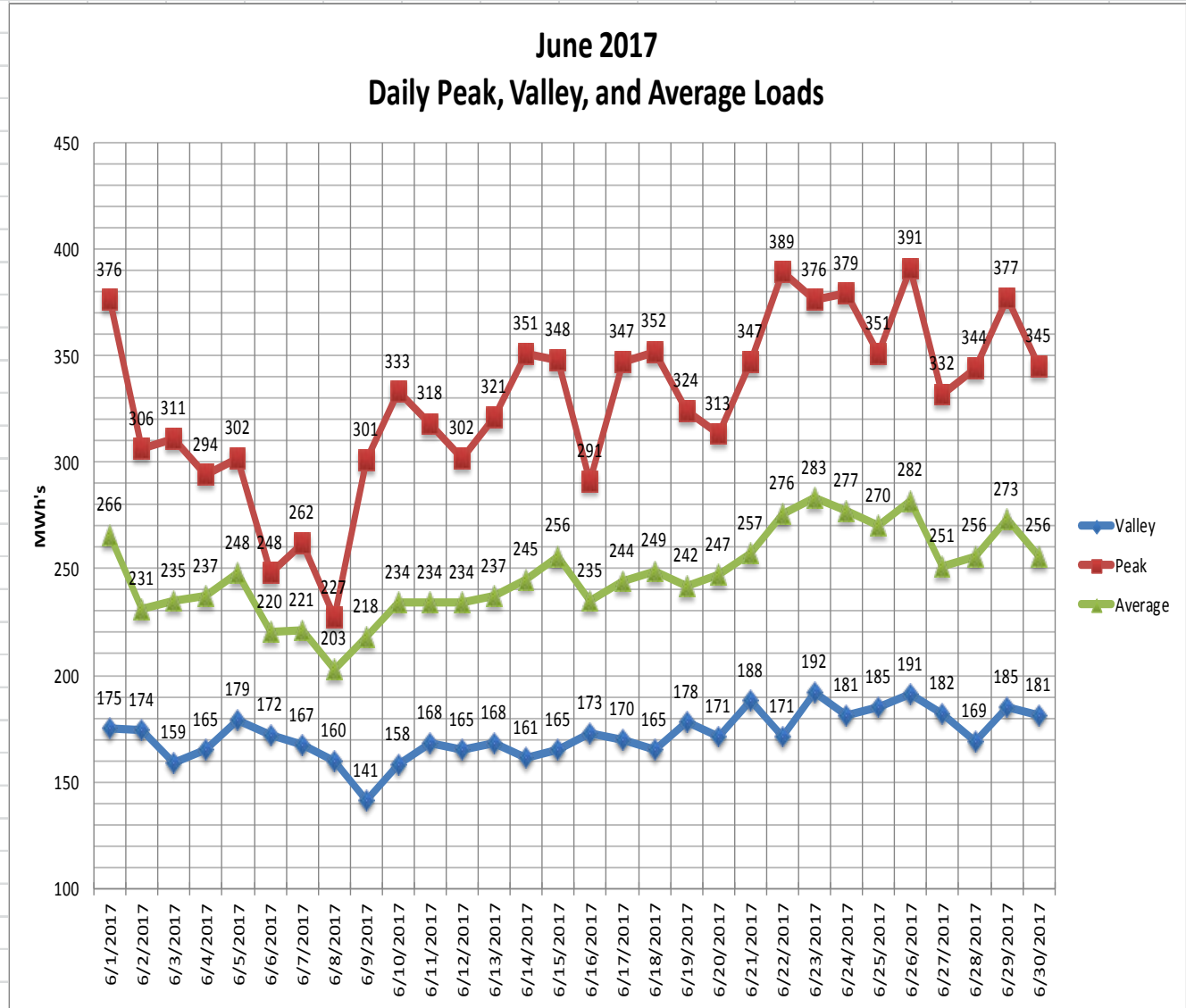
FUEL

<b>Energy Supply - June 2017</b>					
<b>System Statistics</b>					
		<b>Unit Capability output - MWn</b>			
	DH-2	228			
	DH-1	75			
	Kelly CC	108			
	CT's	106			
	Grid	2 X 224			
	GREC	102.5			
<b>Energy Supply - MWHrs Delivered</b>					
		Month	YTD	Budget YTD	Delta Budget
Source					
	DH-2	74,749	134,992	490,189	(355,197)
	DH-1	17,451	169,046	45,696	123,350
	Kelly CC	73,630	537,214	660,704	(123,490)
	CT's	70	6,852	3,769	3,083
	Grid	14,000	335,803	131,965	203,838
	GREC	-	202,747	32,535	170,212
<b>Average Energy Distribution Curve</b>					
	Curve 1 is the hourly distribution of load averages over the month - Pg 14				
	Curve 2 is peak load per day - Pg 15				
<b>Fuel Consumed</b>					
		Month	YTD	Budget YTD	Delta Budget
	Coal - Tons	28,628	51,491	253,108	(201,617)
	Gas-MCF	1,027,120	6,879,284	6,207,731	671,553
	Fuel oil - Gal	-	185,335	-	185,335

Hour Ending	Ave. Load
HE1	208
HE2	192
HE3	181
HE4	174
HE5	172
HE6	178
HE7	189
HE8	199
HE9	213
HE10	229
HE11	249
HE12	267
HE13	283
HE14	300
HE15	312
HE16	318
HE17	318
HE18	312
HE19	304
HE20	292
HE21	283
HE22	275
HE23	253
HE24	230



Date	Valley	Peak	Ave
6/1/2017	175	376	266
6/2/2017	174	306	231
6/3/2017	159	311	235
6/4/2017	165	294	237
6/5/2017	179	302	248
6/6/2017	172	248	220
6/7/2017	167	262	221
6/8/2017	160	227	203
6/9/2017	141	301	218
6/10/2017	158	333	234
6/11/2017	168	318	234
6/12/2017	165	302	234
6/13/2017	168	321	237
6/14/2017	161	351	245
6/15/2017	165	348	256
6/16/2017	173	291	235
6/17/2017	170	347	244
6/18/2017	165	352	249
6/19/2017	178	324	242
6/20/2017	171	313	247
6/21/2017	188	347	257
6/22/2017	171	389	276
6/23/2017	192	376	283
6/24/2017	181	379	277
6/25/2017	185	351	270
6/26/2017	191	391	282
6/27/2017	182	332	251
6/28/2017	169	344	256
6/29/2017	185	377	273
6/30/2017	181	345	256



# ENERGY SUPPLY

## Major Projects/Milestones

As of 7/10/2017:

1. Conducted Borescope Inspections of Deerhaven Gas Turbine #1, #2, and #3 with no abnormal results identified.
  
2. South Energy Center (Phase #2) has now completed the 72 hour operational test of the Wartsila Engine satisfactorily. The initial emission testing of the engine is set for the week of 7/17/2017. The project is on track with the following milestones:
  - a. Wartsila Engine emission testing week of 7/17/2017
  
  - b. Commissioning of the new 3 MW Diesel Generator (DG3) on 7/14/2017



# ENVIRONMENTAL PERMITTING

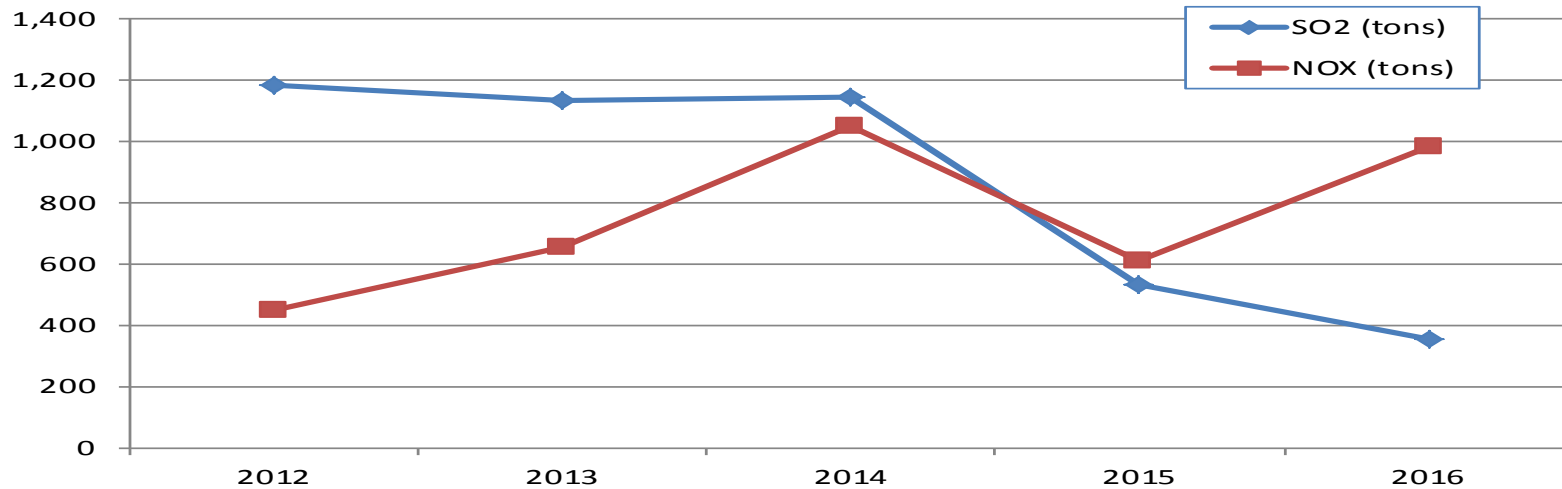
## EMISSIONS DATA

### Yearly Emissions - 5 Year Comparison

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)
2012	1,182	450	8.95	125	1,317,603
2013	1,134	653	6.64	112	1,177,703
2014	1,144	1,052	6.23	32	1,192,647
2015	532	608	5.49	47	1,260,423
2016	354	984	2.92	29	1,216,690

2016 Mercury and particulate values are for Unit 2 only. The other units' values are not available yet.

### SO<sub>2</sub> and NO<sub>x</sub> (tons)

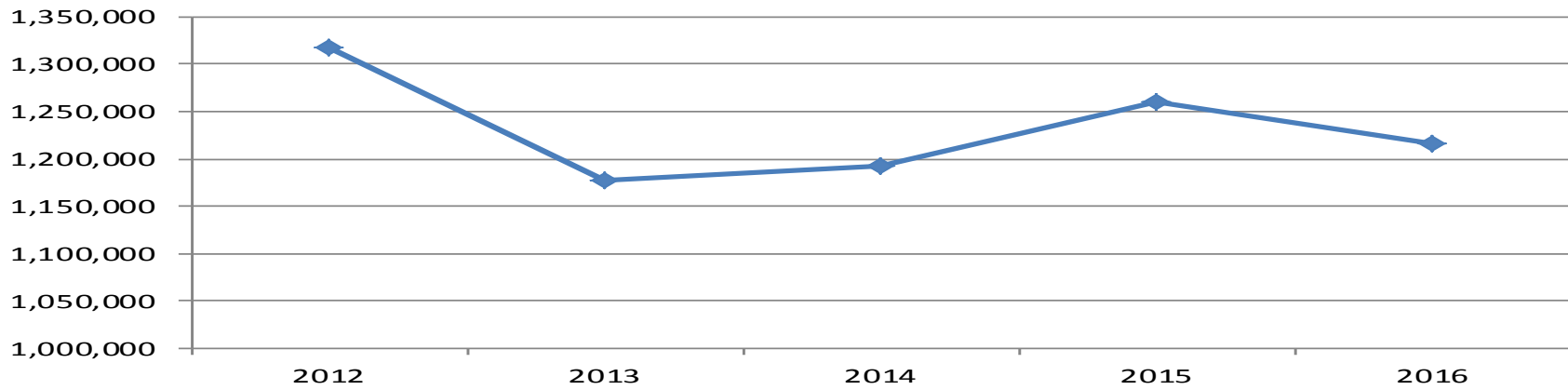


SO<sub>2</sub> was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with the MATS Rule.

NO<sub>x</sub> was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate.

## Yearly Emissions - 5 Year Comparison

### CO<sub>2</sub> (tons)

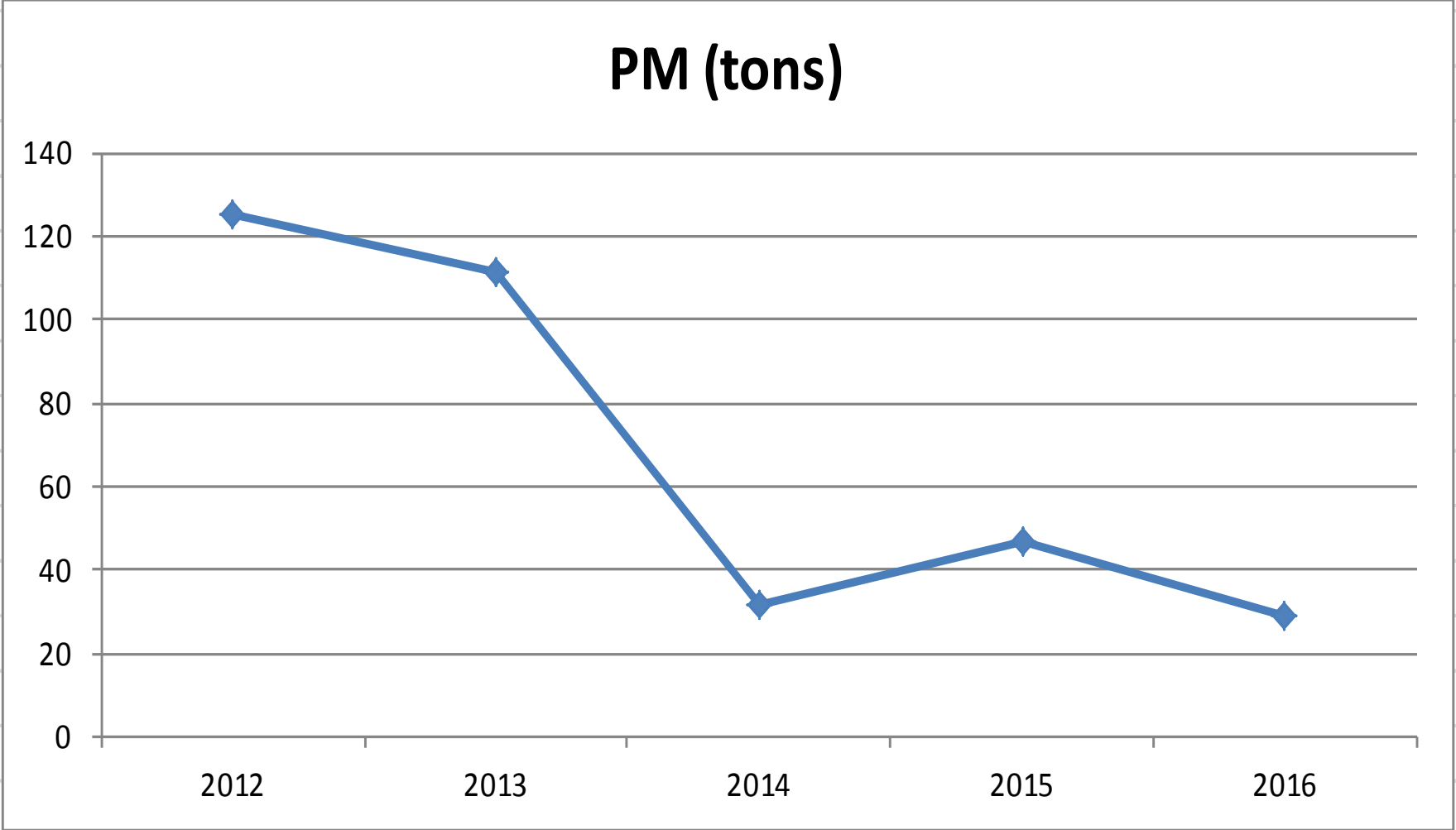


### Mercury (lbs)



**2016 Mercury values are for Unit 2 only. The other units' values are not available yet. Mercury was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with the MATS Rule.**

# Yearly Emissions - 5 Year Comparison



**2016 Particulate values are for Unit 2 only. The other units' values are not available yet.**

**Mass Emissions - 5 Year Comparison**

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2013		91.4	86.4			152,806	1,741,475	161,962
June. 2014		142.0	123.0			116,969	1,374,313	130,627
June. 2015		58.2	35.8			104,989	1,200,991	127,712
June. 2016		50.1	91.8	0.5	1.8	130,585	1,620,546	166,634
June. 2017		44.2	152.1	0.4	5.1	127,801	1,639,384	166,727
		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2013	DH1	0.0	2.2			2,196.5	36,969.0	3,094.0
	DH2	91.1	77.5			117,189.1	1,142,199.0	114,049.0
	DHCT3	0.1	0.1			277.6	4,618.6	353.0
	JRKCC1	0.2	6.6			33,142.6	557,688.0	44,466.0
	<b>TOTAL</b>	<b>91.4</b>	<b>86.4</b>	<b>0.000</b>	<b>0.00</b>	<b>152,805.8</b>	<b>1,741,474.6</b>	<b>161,962.0</b>
		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2014	DH1	0.0	2.3			2,027.0	34,119.0	3,116.0
	DH2	141.9	115.0			113,225.0	1,103,553.0	105,133.0
	DHCT3	0.0	0.1			337.9	5,949.0	410.0
	JRKCC1	0.1	5.6			1,379.3	230,692.0	21,968.0
	<b>TOTAL</b>	<b>142.0</b>	<b>123.0</b>	<b>0.000</b>	<b>0.00</b>	<b>116,969.2</b>	<b>1,374,313.0</b>	<b>130,627.0</b>
		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2015	DH1	0.0	0.0			5.7	94.0	0.0
	DH2	58.1	28.3			80,308.0	785,694.0	81,503.0
	DHCT3	0.0	0.3			2,230.3	37,528.0	2,765.0
	JRKCC1	0.1	7.2			22,445.0	377,675.0	43,444.0
	<b>TOTAL</b>	<b>58.2</b>	<b>35.8</b>	<b>0.000</b>	<b>0.00</b>	<b>104,989.0</b>	<b>1,200,991.0</b>	<b>127,712.0</b>
		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2016	DH1	0.1	17.1			14,215.5	239,166.0	20,694.0
	DH2	49.8	66.1	0.46	1.79	81,583.0	796,015.0	75,358.0
	DHCT3	0.0	0.3			1,495.7	25,174.0	1,984.0
	JRKCC1	0.2	8.3			33,290.3	560,191.0	68,598.0
	<b>TOTAL</b>	<b>50.1</b>	<b>91.8</b>	<b>0.458</b>	<b>1.79</b>	<b>130,584.5</b>	<b>1,620,546.0</b>	<b>166,634.0</b>
		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
June. 2017	DH1	0.1	15.4			14,656.5	246,637.0	19,407.0
	DH2	43.9	129.3	0.445	5.112	74,030.3	734,567.0	74,030.3
	DHCT3	0.0	0.0			70.8	1,192.0	74.0
	JRKCC1	0.2	7.4			39,043.8	656,988.0	73,216.0
	<b>TOTAL</b>	<b>44.2</b>	<b>152.1</b>	<b>0.445</b>	<b>5.1</b>	<b>127,801.4</b>	<b>1,639,384.0</b>	<b>166,727.3</b>

**Mass Emissions Rate - 5 Year Comparison Per MWh**

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2013	DH1	0.00000	1.42211			0.70992	36,969.0	3,094.0
	DH2	1.59756	1.35906			1.02753	1,142,199.0	114,049.0
	DHCT3	0.56657	0.56657			0.78640	4,618.6	353.0
	JRKCC1	0.00900	0.29686			0.74535	557,688.0	44,466.0
		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2014	DH1	0.00000	1.47625			0.65051	34,119.0	3,116.0
	DH2	2.69944	2.18771			1.07697	1,103,553.0	105,133.0
	DHCT3	0.00000	0.48780			0.82415	5,949.0	410.0
	JRKCC1	0.00910	0.50983			0.06279	230,692.0	21,968.0
		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2015	DH1	0.00000	0.00000			0.00000	94.0	0.0
	DH2	1.42571	0.69445			0.98534	785,694.0	81,503.0
	DHCT3	0.00000	0.21700			0.80662	37,528.0	2,765.0
	JRKCC1	0.00460	0.33146			0.51664	377,675.0	43,444.0
		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2016	DH1	0.00966	1.65265			0.68694	239,166.0	20,694.0
	DH2	1.32169	1.75429	0.000006	0.048	1.08261	796,015.0	75,358.0
	DHCT3	0.00000	0.30242			0.75388	25,174.0	1,984.0
	JRKCC1	0.00583	0.24199			0.48530	560,191.0	68,598.0
		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2017	DH1	0.01031	1.58706			0.75522	246,637.0	19,407.0
	DH2	1.18600	3.49316	0.000006	0.138	1.00000	734,567.0	74,030.3
	DHCT3	0.00000	0.00000			0.95676	1,192.0	74.0
	JRKCC1	0.00546	0.20214			0.53327	656,988.0	73,216.0

## 2016 Emissions

	<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> Rate (lb/mmBtu)</b>	<b>HTIP (mmBtu)</b>	<b>MW-hours</b>
DH1	2.7	161.4	NA	NA	139,749.8	0.1340	2,349,851.0	202,123.0
DH2	349.5	737.6	2.917	29.3	683,555.8	0.2320	6,664,325.0	675,645.0
DHCT3	0.0	1.2	NA	NA	4,737.4	0.0420	79,720.0	6,062.0
JRKCC1	2.0	83.8	NA	NA	388,646.5	0.0260	6,539,729.0	796,347.0
<b>TOTAL</b>	<b>354.2</b>	<b>984.0</b>	<b>2.917</b>	<b>29.3</b>	<b>1,216,689.5</b>	<b>0.434</b>	<b>15,633,625.0</b>	<b>1,680,177.0</b>

## 2016 Emissions per Net MW-hr

	<b>SO<sub>2</sub> lbs/MW-hr</b>	<b>NO<sub>x</sub> lbs/MW-hr</b>	<b>Mercury (lbs)</b>	<b>PM (lbs)</b>	<b>CO<sub>2</sub> tons per MW-hr</b>
DH1	0.02672	1.59705	NA	NA	0.69141
DH2	1.03457	2.18340	0.00000432	0.08682	1.01171
DHCT3	0.00000	0.39591	0.000		0.78149
JRKCC1	0.00502	0.21046	0.000	NA	0.488

**2017 (Jan-June)**

	<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>SO<sub>2</sub> Rate (lb/mmBtu)</b>	<b>NO<sub>x</sub> Rate (lb/mmBtu)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
DH1	17.9	98.6			89,067.9			1,495,167.0	125,332.0
DH2	89.1	248.9	0.9	13.03	140,571.2			1,391,342.0	158,380.0
DHCT3	0.0	1.2			4,883.0			82,154.0	5,806.0
JRKCC1	0.8	33.8			151,756.9			2,553,598.0	310,032.0
<b>TOTAL</b>	<b>107.8</b>	<b>382.5</b>	<b>0.860</b>	<b>13.0</b>	<b>386,279.0</b>			<b>5,522,261.0</b>	<b>599,550.0</b>

**2017 (Jan-June) - Emissions Per MWh**

	<b>SO<sub>2</sub> lbs/MW-hr</b>	<b>NO<sub>x</sub> lbs/MW-hr</b>	<b>Mercury (lbs)</b>	<b>PM (lbs)</b>	<b>CO<sub>2</sub> tons/MW-hr</b>	<b>SO<sub>2</sub> Rate (lb/mmBtu)</b>	<b>NO<sub>x</sub> Rate (lb/mmBtu)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
DH1	0.28564	1.57342			0.71066			1,495,167.0	125,332.0
DH2	1.12514	3.14307	0.00001	0.16449	0.88756			1,391,342.0	158,380.0
DHCT3	0.00000	0.41337			0.84103			82,154.0	5,806.0
JRKCC1	0.00516	0.21804			0.48949			2,553,598.0	310,032.0

NOTE- Mercury and PM data is not available yet for DH1, CT3 and CC1.



### GREC 2016 Emissions

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (short tons)	Heat Input (MMBtu)
FL	Gainesville Renewable Energy Center	57241	BFB1		2016	ARP	1.308	0.0685	21.148	65829.75	634316.337

### GREC 2017 Emissions Quarter 1, January-March 2017

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (short tons)	Heat Input (MMBtu)
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	ARP	2.169	0.07	39.92	121746.132	1168275.865

**LEGAL FEES**

**YEAR-to-DATE**

## FY17 Legal Fees Paid to Date

VENDOR	Speciality	FY17 Year-to-Date						
HOPPING GREEN & SAMS	Environment	\$ 35,082.53	(\$4269.00 is pending payment INV# 94518)					
ORRICK HERRINGTON	Former Bond Counsel	\$ 16,833.18						
HOLLAND & KNIGHT	Current Bond Counsel	\$ 20,450.00						
BRYANT MILLER OLIVE	Current Disclosure Counsel	\$ 23,323.30						
BROAD & CASSEL	Former Disclosure Counsel	\$ 283.00						
WINSTON & STRAWN	GREC	\$ 2,592,367.72						
BALLER HERBST LAW GROUP	Telecommunications	\$ 5,600.00						
		\$ 2,693,939.73						

# WATER/WASTEWATER

PRODUCTION

MAINTENANCE

Á

ÁÜÜRÒÔVÙ

# Water/Wastewater Monthly Dashboard

## Production

### Murphree Water Treatment Plant

		June 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	21.8	23.4	30	78%	
	Peak Daily Flow	25.8	32.2	54	-	

### Main Street Water Reclamation Facility

		June 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	8.6	5.8	7.5		

### Kanapaha Water Reclamation Facility

		June 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	13.0	10.9	14.9		

### Water Reclamation Facilities (Combined)

		June 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	21.6	16.7	22.4	74%	

## Maintenance

### Wastewater Collections

	June 2017 (Miles)	FYTD	Monthly Goal (miles)	
Miles of gravity mains cleaned	5.5	51.6	7.5	
Miles of gravity mains TV inspected	5.7	55.9	7.5	

### Water Distribution & Wastewater Collections

	June 2017	FYTD		
Work orders, service orders completed	1422	12,383		

## SSO Monthly Summary

	June	YTD	GOAL	
Sanitary Sewer Overflows	4	20	<16	

## Major Water/Wastewater Projects

Electrical System Upgrade at MWTP - The project has begun				
Manhole Lining				
Gravity Sewer Lining				
Galvanized Steel Pipe Replacements				
Lift Station 40 GM and FM - Complete				
Golfview water replacements & sewer lining - Complete				

## Water/Wastewater By the Numbers

Water/Wastewater Systems serves 189,000 people by operating and maintaining the following:				
1	water treatment plant serving the community			
1141	miles of water distribution mains			
24,260	water valves			
5,800	fire hydrants			
2	water reclamation facilities (wastewater treatment plants)			
770	miles of wastewater collection mains			
168	lift stations pumping wastewater			
28	reclaimed water mains			
15,228	manholes			