

## Energy Conservation Project Update – April 2018

### PROJECT INFORMATION:

ENERGY CONSERVATION MEASURE	LOCATION	CONTRACTOR
Energy Management System	Campus Wide	Siemens
Lighting System Improvements	Campus Wide	Atlantic Control Systems, Costa Companies Inc

<b>AMERESCO PM</b>
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### OBSEVATIONS:

- *New environmental control systems installed campus wide.*
- *Exterior walkway lighting replacement has begun. Existing 150W fixtures will be replaced by 55W LED fixtures throughout the campus.*

### Energy Savings Totals

Ecm #	ECM Name	Annual kW	Total kWh	Natural Gas (Therms)	Propane (Gallons)	#2 Fuel Oil (Gallons)	Water (kGallons)	Sewer (kGallons)	Energy Savings	O&M Savings	Total Project Savings
4	Energy Management System Upgrade/Expansion	-	320,642	56,295	-	8,944	-	-	\$ 90,694	\$ -	\$ 90,694
5A	Central Plant Boiler Improvements - All	-	18,623	27,492	-	6,040	21	21	\$ 27,810	\$ 7,000	\$ 34,810
10	Variable Frequency Drives	-	50,309	-	-	-	-	-	\$ 4,757	\$ -	\$ 4,757
14A	Water Conservation - Areators Only	-	-	922	-	203	242	242	\$ 3,048	\$ -	\$ 3,048
14B	Water Conservation	-	1,030	1,425	363	313	2,263	2,263	\$ 20,839	\$ -	\$ 20,839
15	Building Weatherization	-	4,343	14,016	959	2,703	-	-	\$ 17,227	\$ -	\$ 17,227
18	Vending Machine Controls	-	40,024	(740)	(17)	(160)	-	-	\$ 2,923	\$ -	\$ 2,923
24	Energy Efficient Motors	18.8	5,653	-	-	-	-	-	\$ 691	\$ -	\$ 691
25	Demand Control Ventilation	-	27,127	6,829	-	1,322	-	-	\$ 10,192	\$ -	\$ 10,192
26	Transformer Replacement	179.5	130,912	-	-	-	-	-	\$ 13,872	\$ -	\$ 13,872
27	WAC Timers	-	29,971	-	-	-	-	-	\$ 2,834	\$ -	\$ 2,834
29	AHU/Rooftop Unit Replacement	-	3,972	222	-	-	-	-	\$ 592	\$ -	\$ 592
40	Kitchen Hood Controls	-	60,731	14,688	-	3,227	-	-	\$ 22,524	\$ -	\$ 22,524
41	Repair Heat Recovery Units	-	23,808	18,147	-	3,987	-	-	\$ 22,985	\$ -	\$ 22,985
42	Underground Steam and Condensate Piping - WO#1	-	-	10,238	-	2,249	536	536	\$ 16,118	\$ 1,500	\$ 17,618
42	Underground Steam and Condensate Piping - WO#3	-	-	27,552	-	6,053	184	184	\$ 32,998	\$ 86,000	\$ 118,998
42	Underground Steam and Condensate Piping - WO#4	-	-	12,689	-	2,788	54	54	\$ 14,939	\$ 11,500	\$ 26,439
		<b>198</b>	<b>717,144</b>	<b>189,775</b>	<b>1,306</b>	<b>37,669</b>	<b>3,301</b>	<b>3,301</b>	<b>\$ 305,043</b>	<b>\$ 106,000</b>	<b>\$ 411,043</b>

**Photos:**

*New environmental control systems installed in the Physical Plant and in the East Campus buildings.*



*Existing lighting fixtures removed. New LED fixtures to be installed throughout the east campus walkways.*



***Fixture Examples:***

***Existing Fixture***



***New Fixture***

