



## Energy Conservation Project Update – May through July 2019

### PROJECT INFORMATION:

ENERGY CONSERVATION MEASURE	LOCATION	CONTRACTOR
Campus Steam Distribution	Roberts	ACS
Solar PV	Donovan Dining Hall/ Student Union	Megawatt Energy Solutions

**AMERESCO PM**

**Chris Guccione**

### OBSEVATIONS:

- *Central Steam Plant pipe distribution continues*
- *Solar Generation*

### 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
3	Lighting System Improvements - Exterior	-	369,492	-	-	-	-	-	\$ 34,937	\$ 1,443	\$ 36,381
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
22	Solar PV Array - WO#5	-	132,502	-	-	-	-	-	\$ 12,529	\$ -	\$ 12,529
		198	717,144	189,775	1,306	37,669	3,301	3,301	\$ 305,043	\$ 106,000	\$ 411,043

**Photos:**

***Steam Distribution replacement – Structural Support required concrete encased conduit above new steam distribution piping.***



***Steam Distribution replacement – More piping being installed under existing piping and concrete encased conduit (Alger).***



**Steam Distribution replacement – Trenching between Craig Lee and Barnard School.**



**Solar PV Generation – Graph shows daily production over a sunny July.**

