

Sustainability Committee Meeting

February 20, 2019

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Organic Recycling Mandate

- Mandate - Part of the AB 1826 Chesbro. Solid Waste: Organic Waste. (Chapter 727, Statutes of 2014)
 - 2017 – any entity that generates 4 cubic yards of *organic* waste per week has to arrange for organic recycling
 - 2019 – any entity that generates 4 cubic yards of *ANY* type of waste per week has to arrange for organic recycling
- Both Grossmont College and Cuyamaca College generate over 4 cubic yards per week

Current Organic Waste Recycling Practices

- Grossmont College has no organic waste recycling
- Cuyamaca College has organic waste recycling through composting

Organic Recycling Solutions

- Resource Management Group (RMG) provides organic recycling for pre-consumer waste
- Organic waste would be diverted in the Sodexo kitchens and culinary arts kitchen



Organic Recycling Solutions - Costs

- Grossmont College would require three totes, serviced 1x/week
 - 3 totes x \$17 per tote = \$51
 - \$51 x 4.33 (average number of weeks in a month) = \$220.83
 - \$220.83 + \$15 monthly tote rental fee = **\$235.83/month**
- Cuyamaca College would require one tote, serviced 1x/week
 - 1 tote x \$17 = \$17
 - \$17 x 4.22 = \$71.74
 - \$71.74 + \$15 = **\$86.74/month**

Recycling Requirement

- Commercial Solid Waste, defined by AB 1398, Requirement: A business (includes public entities) that generates four cubic yards or more of commercial solid waste per week or is a multifamily residential dwelling of five units or more shall arrange for recycling services.
- The benefits of co-mingled (“single stream”) recycling:
 - No need to sort = less work for students and custodial staff
 - More items are recycled = trash is diverted from landfills
 - Training students and staff in current recycling practices

Recycling Solutions

- Waste Management can provide co-mingled bins as well as recycling of baled cardboard

Items that CAN be recycled in the co-mingled bins:

- Plastic bottles and containers
- Food and beverage cans
- Paper
- Cardboard and paperboard
- Food and beverage cartons
- Glass bottles and containers

Items that CANNOT be recycled:

- Food waste
- Plastic Bags and film
- Foam cups and containers
- Needles

Recycling Solutions - Costs

- Grossmont College:
 - Requires two 3-yard dumpsters, serviced once/week for recycling
 - WM charges \$45.00/month for one dumpster serviced once/week
 - Total cost to Grossmont College - \$90.00/month
- Cuyamaca College:
 - Needs a site walk with Waste Management
 - Preliminary estimate – similar cost, \$90.00/month

Solar Update

- GCCCD has preliminary proposals from three different solar vendors
- Each vendor has given a purchase and PPA option
- One of the solar vendors is backed by SPURR's REAP program
 - The REAP program is an aggregated solar procurement program that leverages collective purchasing power or members, and secures pre-negotiated pricing
 - Would allow GCCCD to bypass the RFP process

Proposed Locations - Grossmont



Proposed Locations - Cuyamaca



Costs

- Currently, GCCCD pays an average of **\$0.17/ kwh**
- Each solar PPA proposal provides electricity for **less than \$0.11/kwh**
- Solar PPA or Purchase converts GCCCD's electrical utility cost to PPA cost or loan payment
- GCCCD continues to pay SDG&E and Constellation for the remaining electricity consumption
- On-site Battery Storage provides an additional savings by shaving peak demand costs
- PPA provides a *guaranteed* fixed electric rate for the next 20-25 years

Power Purchase Agreement - PPA

- No upfront cost
- EV Stations at both Campuses (no trenching necessary, additional cost savings, appeals to staff)
- Solar companies plan & manage construction
- On-going maintenance at *zero additional cost*
- Options at end of 20 or 25 year agreement
- Panel performance guarantee
- Provides shade & increased security lighting to parking lots
- Utilizes local East County companies for construction and maintenance
- Approved RFP Process with Sunpower – JPA ensures a fast tracked experience

Potential Challenges

- Disruptions to parking
- Concern over impacts and annoyances
- If GCCCD does not want to go with the JPA/Forefront proposal, must complete an RFP

Planning and References

- Supports Districtwide Sustainability goals
- Consistent with FMP priorities
- PPA Provider is endorsed by the Community College League of California

Next Steps

- Sustainability Committee to Recommend PPA or Purchase
- Bring Recommendation to Chancellor's Cabinet and Governing Board

Urgency

- Grandfathering clause – allows us to use former TOU pricing for 10 years starting January 2018.
- 30% Investment Tax Credit (ITC) is set to decline at the end of 2019, projects must start construction in 2019 to qualify for the full 30%
- CPUC set to review Net Energy Metering (NEM) 2.0 and consider changing its structure. Projects completed before NEM 3.0 will be grandfathered into 2.0 for 20 years.

Data Update

Monthly Summary

	2018 - 2019		
	Cost Avoid \$	Cost Avoid %	* Total \$
Apr	55,954	19.6	55,954
May	78,686	26.0	78,686
Jun	70,985	25.1	70,985
Jul	81,781	23.8	81,781
Aug	67,937	18.9	67,937
Sep	79,435	22.9	79,435
Oct	65,199	21.8	65,199
Nov	59,192	22.4	59,192
Dec	21,901	11.3	21,901
Total	581,070	21.7	581,070

- Total Avoided Costs April 2018 - Dec 2018
= \$581,070.00
- Total Avoided Costs April 2015 – Dec 2018
= \$2,461,733.00

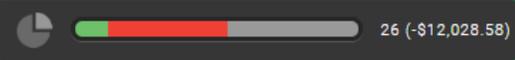
Energy Summary April 2015 – Dec. 2018

Energy Summary

	Use				Cost				
	BATCC	Actual	Avoid	Avoid %	BATCC	Actual	Avoid	Avoid %	Total Savings \$
Electric (KWH)	55,489,510	45,374,243	10,115,267	18.2	9,949,019	8,134,090	1,814,928	18.2	1,814,928
Natural Gas (THERM)	640,885	526,567	114,318	17.8	450,247	367,948	82,299	18.3	82,299
Water (CCF)	231,023	183,491	47,532	20.6	1,749,361	1,334,195	415,166	23.7	415,166
Sewer (KGAL)	40,856	28,447	12,409	30.4	204,616	140,728	63,888	31.2	63,888
Irrigation (KGAL)	46,258	48,098	-1,840	-4.0	534,244	448,792	85,452	16.0	85,452
Total (KBTU)	253,418,708	207,518,077	45,900,631	18.1	12,887,488	10,425,754	2,461,733	19.1	2,461,733

GreenX

- Online platform developed by Cenergistic
- Extremely helpful in managing real time energy expenditures
- Real time alerts for
 - Trends
 - Interval Data



Search Alerts



Assigned Priority Filter

- \$246.08 Meter Performance @ Cuyamaca Community College
 Meter ID: 8645551933-G
 Meter Performance is negative. 6 month average is positive. # of consecutive negative occurrences is 2

Alert Details

State: This task is assigned to jhall@cenergistic.com in the Energy Specialists team.

- Delegate
- Unassign
- Reject
- Resolve
- Escalate

Meter Performance @ Cuyamaca Community College

Meter Performance is negative. 6 month average is positive. # of consecutive negative occurrences is 2

Natural Gas Created 1/2/2019 Low Priority

Program Name	Grossmont-Cuyamaca CCD-CA-04-15 - FFES
Report Date	10/01/2018
Meter ID	8645551933-G
Actual Cost	\$1217.88
Actual Use	1931.00
BATCC Cost	\$971.91
BATCC Use	1541.00
Cost Avoidance (%)	-25.32%

Comments/History

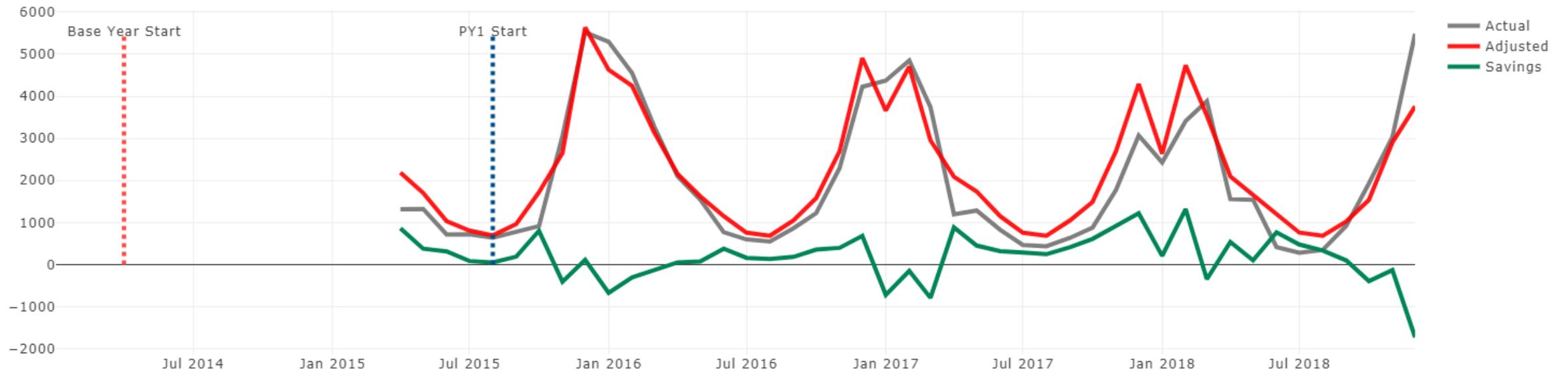
Add a comment...

Cancel Comment

jhall@cenergistic.com a month ago
 Assigned this to themselves .

Task was created 2 months ago

Actual Use vs Baseline Adjusted to Current Conditions(THERM)



Newsletter - Topics

- March – Why You Should Care About Stormwater Runoff
- April - Why Organic Is Better for the Planet and You
- May – Recycling – How, What, Where, Why
- June – Energy Conservation in the Summer
- Ideas?