

Strategic Energy Management

2021/2022 Impact Report

Central Oregon Community College

CENTRAL OREGON COMMUNITY COLLEGE

|| March 31, 2022

1. Executive Summary



Central Oregon Community College, 2600 NW College Way Bend, OR 97703. Year 3.

In their third year of Energy Trust's Strategic Energy Management (SEM) program, Central Oregon Community College (COCC) focused on building upon previous success, completing projects and milestones, and conducting both a Treasure Hunt and Energy Management Assessment (EMA). Despite changes to the Executive Sponsor and ongoing labor shortages, the COCC team remained focused on deepening their SEM practices and driving staff and student engagement through the year.

COCC earned \$9,621 in incentives in 2021. We look forward to COCC's continued SEM leadership in 2022.

SEM Program Incentives				
	Milestone Incentive Amount	Intern Incentive Amount	Energy Savings Incentive Amount	Total
Year 1 (2019/2020)	\$5,000	\$6,565	\$2,117	\$13,682
Year 2 (2020/2021)	\$4,000	\$0	\$1,179	\$5,179
Year 3 (2021/2022)	\$5,000	\$3,091	\$1,530	\$9,621
Total	\$14,000	\$9,656	\$4,826	\$28,482

2. Energy Savings Summary



This methodology uses engagement and program historical savings rates to determine savings for each site, which is the current basis for paying incentives. Engagement is assessed through Performance Tracking Tool (PTT) updates, workshop attendance, monthly call attendance, and the number of projects completed. To calculate energy savings, historical savings rates are determined by building type, model age, and fuel type which is applied to each enrolled site.

Normally savings are calculated with meter-level energy models in participant PTTs. The extraordinary circumstances of 2020 and 2021 have required that Energy Trust adapt commercial SEM savings methodologies and program offerings. Energy Trust is only permitted to account for savings and pay incentives for efforts that are directly attributed to participation in Energy Trust programs and

will result in savings over future years. As a result, a new way to calculate savings and incentives for the full year has been developed. In 2021, SEM Savings were recognized and incentivized if you:

- Implemented at least five opportunities that were identified on your Annual Energy Plan
- **And** you completed at least two of the following:
 - Attended 50% of operations calls
 - Attended 50% of core SEM workshops
 - Updated all PTTs at least four times

Following are tables showing Program Year 2021 engagement criteria and savings, and below the tables are notes describing what each column represents.

Engagement Metrics for Program Savings-Based Incentives	
Number of Workshops Attended	7/7
Number of Operations Calls Attended	10/12
Number of times Performance Tracking Tools Were Updated	5
Number of Completed Qualifying SEM Projects for Incentive	14

	Electric Baseline (kWh)	SEM Incremental Electric Savings (kWh)	Gas Baseline (therms)	SEM Incremental Gas Savings (therms)	Total Incentive
Cascade Culinary Institute / Jungers Culinary Center	278,667	6,589	23,032	590	\$250
Redmond Technology Education Center - RTEC	506,700	11,980	8,877	227	\$285
Wikiup Residence Hall	566,560	13,396	27,114	695	\$407
Cascades Hall	375,880	21,872	18,253	753	\$588
Grand Total	1,727,807	53,837	77,276	2,265	\$1,530

Electric/Gas Baseline is the annual energy use during the period prior to the program/model start date.

SEM Incremental Savings includes savings specific to SEM activities that occurred in the current engagement year (does not include capital savings). For continuation participants, this is your incremental incentivized savings that exceed SEM savings from previous years.

Total Incentive is the SEM Incremental Savings (kWh) x \$0.02 plus SEM Incremental Savings (therms) x \$0.20.

3. Program Highlights



COCC had a great year in Energy Trust's SEM program. Despite certain challenges, the core energy team continued to maximize all available to drive progress, learn from fellow energy practitioners, and hear best practices across industries. This year, COCC worked diligently to implement 14 energy projects, complete all milestones, conduct a Treasure Hunt and perform an EMA.

Key Performance Indicators	
Milestones Achieved:	
☒ <i>Annual Energy Plan</i>	☒ <i>Energy O&M Projects</i> <i>10 / 10 complete</i>
☒ <i>Standard Operating Procedure</i>	☒ <i>Executive Sponsor Engagement</i>
☒ <i>Energy Team</i>	
Treasure Hunts Conducted	1
EMA Total Score / Previous Score	30% (2021) / 15% (2019)

- Organizational Activities
 - Successes
 - COCC welcomed a new energy champion, Noelle Bell Copley, in April 2021. She hit the ground running by completing an SEM 101 session with coaches, attending Treasure Hunt webinars, and coming to Ops Calls prepared. Noelle used all resources provided by coaches and created connections with other SEM peers including OSU-Food Innovation Center, and Bend-La Pine School District.
 - Challenges
 - Executive Sponsor support has been a challenge with the college amidst several staffing changes, creating a lack of awareness of the SEM program across the greater organization.
 - Progress
 - Despite the challenges, the energy team was able to present to the COCC senior leadership team in early 2022, and was able to complete all milestones, conduct a Treasure Hunt, perform an EMA, and complete 14 energy projects- an outstanding accomplishment.
- Technical Activities
 - Successes
 - COCC successfully incorporated a new building, Cascades Hall, into their SEM portfolio in 2021. The energy team completed a variety of operations and maintenance projects at this building, including energy efficient vending

machine controls and thermostat lockouts. COCC identified even more opportunities to complete in the future through the Treasure Hunt.

- Noelle Bell Copley was able to secure a login to their central Building Management System (BMS). On the November Ops Call, the COCC energy team and energy coaches performed a live review of the BMS to help Noelle and team understand how to use the system to identify energy opportunities with the HVAC system.
- Challenges
 - The COCC team was challenged by many competing priorities for the facilities and maintenance staff. In addition, a shuffle in campus leadership meant that getting executive buy-in for implementing SEM practices was a challenge throughout the year. The energy team was able to overcome these setbacks by being creative and selective, making sure to identify and complete the most pressing energy projects. In addition, the energy team leveraged their intern, Clay Lucas, to complete projects when the facilities staff were otherwise occupied.
- Progress
 - Noelle Bell Copley stepped up immediately in her role as Energy Champion and set a course for future success. With more buy-in from the campus leadership, the energy team is excited to pursue larger projects at their currently enrolled buildings. In addition, the energy team has already identified more buildings that they would like to enroll in the SEM program in 2022, each bringing their own potential for savings.

4. Participant Energy Team



Energy Champion: Noelle Bell Copley, Sustainability Coordinator.

Executive Sponsor: David Dona, CFO and Vice President of Operations.

Back-up Energy Champion: Dana Christensen, Instructional Specialist – Deans Office.

Team Member: Kelly Ruebush, HVAC Specialist.

Team Member: Mike Beaulieu, Campus Services Director.

Team Member: Kathryn Myers, Building Maintenance Supervisor.

Team Member: Moises Viramontes, Building Maintenance Specialist.

Intern: Clay Lucas, Student at OSU-Cascades.

The COCC energy team is led by Noelle Bell Copley, with strong support from Dana Dona, and SEM intern, Clay Lucas. Noelle has excelled in championing SEM efforts across the campus despite the changes to staffing at the administrative level and stretched thin facilities team. The team has continued to advocate for SEM through the executive sponsor changes and are confident with their new leadership, there will be an opportunity to re-engage executive support.

Bruce Tuckman's Forming-Storming-Norming-Performing model of group development proposes that each stage is necessary and inevitable for the team to grow, face challenges, tackle problems, find solutions, plan work and deliver results. The COCC Team belongs in the "Norming" stage as they continue to

define roles and responsibilities and gain and maintain buy-in from key stakeholders.

Energy Team Phase

<input type="checkbox"/> Forming	<input type="checkbox"/> Storming	<input checked="" type="checkbox"/> Norming	<input type="checkbox"/> Performing	<input type="checkbox"/> Reforming
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5. Plans for Future Success



COCC has re-enrolled for 2022 and will continue to work on executive support for their SEM efforts. The core energy team has excelled at implementing the foundational pieces of SEM and continue to be a leader within the SEM community. Coaches will be meeting with the energy team to discuss adding new buildings to their existing building portfolio and will be working on revising their energy plan to prioritize remaining projects on their Opportunity Registers while ramping up engagement efforts.

- Obtaining executive commitment will be a core goal for the upcoming year with COCC, which will ensure support for the energy team and their efforts in identifying and implementing projects.
- COCC intends to conduct another Treasure Hunt on campus in the Spring/Summer of 2022 and utilize coaches for BMS reviews to identify additional opportunities.

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