

**Strategic Energy
Management
2023 Impact Report
Klamath Community
College**

KLAMATH COMMUNITY COLLEGE

December 31, 2023

1. Executive Summary



Klamath Community College, 7390 S 6th St, Klamath Falls, OR 97603. Year 6.

Klamath Community College (KCC) excelled in 2023, overcoming major transitions within the energy team, updating their preventative maintenance routines, and achieving all five milestones in the Strategic Energy Management (SEM) program. In 2024, KCC will build on this SEM foundation and branch out to occupants under the leadership of its Energy Champion, Matt Anderson, and by the continued commitment of its facilities team.

Klamath Community College earned \$10,973 in incentives in 2023. We look forward to KCC's continued SEM leadership in 2024.

SEM Program Incentives

	Milestone Incentive Amount	Intern Incentive Amount	Energy Savings Incentive Amount	Total
Year 1 (2016)	\$3,000	N/A	\$1,856	\$4,856
Year 2 (2017)	\$1,000	N/A	\$0	\$1,000
Year 3 (2020)	\$5,000	\$5,437	\$248	\$10,685
Year 4 (2021)	\$4,800	\$9,067	\$1,423	\$15,290
Year 5 (2022)	\$4,500	\$8,530	\$1,318	\$14,348
Year 6 (2023)	\$5,800	\$1,905	\$3,268	\$10,973
Total	\$24,100	\$24,939	\$8,113	\$57,152

2. Energy Savings Summary



Energy savings are calculated with meter-level energy models in the Energy Performance Platform (EPP). Energy models can be seen here: [link to EPP](#).

Overall, Klamath Community College achieved 158,122 kWh, 9.6%, electricity energy savings and 528 therms, 2.6% natural gas energy savings compared to their baseline annual energy consumption. The following table shows Program Year 2023 savings, and below the tables are notes describing what each column represents.

	Electric Baseline (kWh)	SEM Incremental Electric Savings (kWh)	Gas Baseline (therms)	SEM Incremental Gas Savings (therms)	Total Incentive
Bldg 4	243,195	32,000	3,818	51	\$650
Building 2&3	132,556	487	1,238	435	\$97
Building 5	736,593	50,966	12,467	0	\$1,019
Building 6	16,867	71,203	1,084	0	\$1,424
Building 8&9	462,240	0	926	0	\$0
Building 7	46,800	3,466	850	42	\$78
Grand Total	1,638,251	158,122	20,383	528	\$3,268

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



KCC had a strong 2023 as their experienced energy team continued to complete projects, worked closely with their vendors and controls contractors, and achieved all five SEM milestones. In their sixth active year in the program, Energy Champion Mike Homfeldt and SEM intern Aaryan Patel laid the foundation for a smooth transition by reviewing maintenance practices, creating standard procedures, and leveraging the knowledge of experienced staff. This preparation was crucial as Mike prepared to retire in October 2023, passing the torch to incoming Energy Champion Matt Anderson and Executive Sponsor Tim Williams.

Key Performance Indicators	
Milestones Achieved:	
<input checked="" type="checkbox"/> Annual Energy Plan	<input checked="" type="checkbox"/> Operational Efficiency
<input checked="" type="checkbox"/> Staff Training	<input checked="" type="checkbox"/> Executive Sponsor Engagement
<input checked="" type="checkbox"/> Energy O&M Projects 18 / 20 complete	
Number of Workshops/Webinars Attended	7/7
Number of Operations Calls Attended	9/11
Number of Energy Performance Platform Projects Completed	43
Treasure Hunts Conducted	1 Treasure Hunt, 1 BMS Review
EMA Total Score / Previous Score	42% (2022) / 22% (2020)

- Organizational Activities
 - Successes
 - In September 2023, Mike and Aaryan successfully transitioned off the team, appointing Matt Anderson as the new Energy Champion and Conner Berg as the new intern. They leveraged the succession plan established in the 2021 Executive Sponsor Engagement Milestone and passed on both hard and digital copies of SEM documentation.
 - Matt and Conner stepped up to the plate in Fall 2023 by onboarding onto the SEM program, achieving remaining milestones, and committing to participate the 2024 Planning Workshop. The new Executive Sponsor, Tim Williams, has committed to onboarding in early 2024.
 - Challenges
 - While the energy team excels in identifying and completing technical energy projects, it has been an ongoing challenge to engage staff and students in SEM. Although Mike maintained contact with the Marketing team, they lacked the bandwidth to collaborate in awareness campaigns.
 - Due to Mike and Aaryan's focus on team transitions, they were unable to dedicate time to implementing organizational SEM projects but have set the team up for success in 2024.
 - Progress
 - Mike and Aaryan ensured new energy team members were trained on the Energy Performance Platform and the Collaboration Hub. In 2024, the team plans to expand the use of these tools to review models, track projects, and leverage SEM resources.
 - Energy-related items are included on the agenda for facilities department meetings. There are ongoing efforts to spread awareness of energy efficiency by facilitating discussions about SEM during these meetings.
- Technical Activities
 - Successes
 - Team Member Matt Anderson participated in the Building Operators Certification program and added to his facilities operation skillset. Matt has become a very valuable resource, adept at identifying and implementing controls adjustments to improve the efficient operation in KCC's buildings.
 - KCC collaborated with their HVAC contractor, Alliant, and updated their preventative maintenance (PM) routines and occupancy settings across all their sites to continue saving energy. Their efforts contributed to reducing the energy impact of outside air in buildings.
 - Challenges
 - The sheer number of buildings on campus, coupled with the competing needs of a new building opening this year, sometimes diverted the team to other projects and delayed action on some issues.
 - Under the leadership of Mike and Aaryan, the team has expanded its standard operating procedures, analysis capabilities, and responses to energy use. Although these have been passed on to new team members, there will be a transition period to review and utilize them to their full potential.

- Progress

- In addition to working with their HVAC contractor to update preventative maintenance routines, KCC intern Aaryan Patel did an outstanding job creating standard operating procedures for the most significant systems. This ensures the persistence of effective operations, even as staff changes at the college.
- The team recognized the need to establish a formal work order system. Energy Champion Mike Homfeldt left a recommendation for Tim Williams, the next Facilities Director to pursue this opportunity.

4. Participant Energy Team



Energy Champion: Mike Homfeldt, Facilities Director.

Energy Champion: Matt Anderson, Physical Plant Specialist.

Executive Sponsor: Geoff LaHaie, CFO & VP Administrative Services.

Executive Sponsor: Tim Williams, Facilities Director.

Back-up Energy Champion: Mark Griffith, Director of Apprenticeships.

Team Member: Jeff Kelley, Facilities Specialist.

Team Member: Chris Chandler.

Intern: Aaryan Patel.

Intern: Connor Berg.

The energy team at KCC stayed on track in 2023, despite the retirement of long-time Energy Champion, Mike Homfeldt, in October. The new Energy Champion Matt Anderson and new Executive Sponsor Tim Williams are in the process of adjusting to their roles. Additionally, KCC's star intern, Aaryan Patel, prepared to transition out of his role and worked with the new intern, Connor Berg, in August to explain the role and how the SEM program works at KCC. KCC's thoughtful planning during this transition year showcased the maturity of their energy management program and their commitment to SEM.

Due to the transition that took place in key SEM roles at KCC, coaches feel the team is now in the reforming stage of development, where new or re-confirmed team goals, team norms, and possible new leadership styles become defined. With the history of the team and the experience of some team members, KCC is well-prepared to move through these early phases of group development and quickly return to a high-performing team.

Phases below reference Tuckman's stages of team development. The forming-storming-norming-performing model of group development proposes that each phase is necessary and inevitable for the team to grow, face challenges, tackle problems, find solutions, plan work, and deliver results.

Energy Team Phase

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



Klamath Community College is equipped with the people, resources, and the commitment to success in 2024. As the energy team continues to absorb SEM documentation left behind by Mark and Aaryan, meet on a regular basis, and expand their use of the Energy Performance Platform, the team has the potential to build a strong foundation in SEM. Team participation in the 2024 Planning Workshop will be key for mapping out projects and ensuring that all members are on the same page.

- Take advantage of the 2024 Occupant Engagement Milestone to implement an engagement activity. Work with coaches to brainstorm how to move forward with limited support from the Marketing team.
- Establish a formal work order system, including a tag for work orders related to energy management. Integrate SEM projects identified at the 2024 Planning Workshop and those outlined in the 2024 Annual Energy Plan.
- Build upon the success of 2023 by pursuing three more 50001 Ready Navigator tasks for the 50001 Ready Navigator milestone.

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