How does this proposed course align with CALL program objectives?

- Course redesign will tie elements of sustainability into opportunities for student learning using the campus environment, including 1) comprehension of central plant operations, 2) analysis of campus energy usage data, and 3) evaluation of solar photovoltaic system performance.

Which activities can CALL program support?

- 1) Video camera equipment for campus facilities tours, 2) Supporting access to primary data of campus energy usage, and 3) Technical support with removal and replacement of solar PV systems.

What is the team's vision for the next year as part of the CALL redesign program?

- 1) Reevaluate successes and opportunities for improvement, 2) Continue campus tours, student summaries of mechanical systems and revise video content if necessary, 3) Analyze energy performance at the building level rather than overall campus, and 4) Assess opportunities for further upgrades to PV system and opportunity to compare performance before and after the upgrade using online data.

What role will facilities engineers (BSEs) play in the course redesign and delivery?

- Facilities engineers will assist in the development of course materials, provide input on sustainability issues, and coordinate the implementation of changes.

Designing the assignments

- Two of the three course segments will involve group projects: 1) video describing campus HVAC system and 2) energy data modeling presentations.
- Assessment will include: Pre- and post-course surveys, observations of student engagement, and final presentations.
- Background info needed to achieve goals of the course: effective understanding of campus chilled water distribution system, key terms related to energy data analysis, and the operation and performance of rooftop PV systems.

Defining criteria for success

- Course outcomes are relevant to the learners and their personal goals if they are interested in issues of sustainability, and for their career goals if they decide to pursue an energy systems-related professional track.