

Project Title: Sustainable Operations and Facility Adaption

Task Agreement: P17AC00990 Modification: 1
Discipline: Interdisciplinary
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Montana State University
Student Involvement: Yes
Effective Dates: 6/01/2017 – 6/3-/2019
Funding Amount: \$70,000

Investigators and Agency Representative:

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Project Abstract: Yellowstone National Park partnered with the Department of Mechanical and Industrial Engineering at Montana State University in 2015 and 2016 for modeling, monitoring, evaluating and disseminating building energy information and would like to continue expanding this work in 2017. Achieving energy use reduction for Yellowstone's many buildings is an important goal for the park's sustainability program and monitoring and tracking is key to managing energy successfully. In addition, analysis of energy data and dissemination to park personnel could lead to more interest in best practices by everyone. Having real projects for modeling, troubleshooting systems and tracking energy is a key task for increasing knowledge and understanding of best practices and technical expertise for student programs.

The purposes of this project are to (1) provide Yellowstone with technical assistance from Montana State University for facility adaption and (2) provide MSU students with real-world educational experiences to supplement their degree programs.

Keywords:

Yellowstone National Park, Montana State University, modeling, monitoring, evaluating, disseminating, building energy, sustainable operations