Project Snapshot:

The Alaska Energy Authority’s Renewable Energy Fund — Data Oversight

ACEP’s Data Collection and Management Program is working with UAA’s Institute of Social and Economic Research and Research Computing Services to develop a data management plan for the Alaska Energy Authority’s Renewable Energy Fund.

Project Summary

A robust data management program for the Alaska Energy Authority’s (AEA) Renewable Energy Fund (REF) project is critical to defining success for both individual projects and the program as a whole. For selected REF projects, as identified by AEA, the Alaska Center for Energy and Power (ACEP) will provide data oversight services and ensure that accurate and appropriate performance data is being collected by grant recipients so that a project’s effectiveness can be accurately measured.

Project Description

ACEP, with oversight from the AEA, will collaborate with selected AEA REF grant recipients to develop a data collection plans. ACEP will be responsible for overseeing the execution of the data collection plans and for providing data management services such as data storage, quality assurance, archiving, and reporting for AEA’s benefit.

ACEP project activities include the following:

- Technical assistance to grant recipients with instrumentation specification, installation, integration, and configuration to collect the data points specified by the data collection plan.
- Automated standard (non-interpretive) monthly reports for AEA and the grant recipient that will include aggregated plots and summaries of specific data collected as well as appropriate statistical measures.
- Open access to the data, if permitted, via the Alaska Energy Data Gateway that will allow data to be ordered and/or processed into a graphical and easy-to-understand format for AEA and other public users.

Kodiak windmills. Photo courtesy of Jim Jager.
• Site visits to review and support data collection activities.
• Independent analysis of data at project completion to verify project results, energy production, and savings.

Next Steps

ACEP is currently working with the AEA and the Institute for Social and Economic Research (ISER) to build on the previous Alaska Energy Data Gateway effort between the two entities, which was formerly funded under a Department of Energy EPSCoR (Experimental Program to Stimulate Competitive Research) initiative. This effort will enable the dissemination of high-quality, high-resolution data and reporting supported by the data collection plans.

ACEP is currently utilizing three projects previously funded under REF to refine and finalize data collection and management methodologies. ACEP will showcase its data collection and management infrastructure using currently funded REF projects to be determined by AEA.

AHERC collects data on the Tanana River using a state of the art sonar system. UAF photo by Todd Paris

The GARN system in Gulkana, Alaska. Photo courtesy of D. Huang, ACEP/UAF

High resolution data acquisition equipment at ACEP’s Energy Technology Facility. UAF photo by Todd Paris

Project Funding Partners
Alaska Energy Authority

Project Research Partners
University of Alaska Anchorage
Institute for Social and Economic Research

For more information on ACEP projects, go to acep.uaf.edu/projects.