
ROBERT DEERING

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Education

Bachelor of Science – Mechanical Engineering

University of Washington

1986

Wide range of training and workshops on energy efficiency, technologies, and practices.

Relevant Experience

Alaska Heat Smart – 2020 through Present

Principal technical expert

- Developed heat pump assessment practices, protocols and reporting formats.
- Created computer model that projects the energy performance, carbon benefits, and economic aspects of converting buildings to a constellation of heat pump configurations and integrations
- Have performed more than 100 residential heat pump assessments.
- Conducts technical analyses of heat pump performance, economic performance, and other data analyses on an as-needed basis.
- Provides public presentations and education on AHS findings and practices.

U.S. Forest Service – 2013 through 2018

Renewable Energy Coordinator

Region 10 (Alaska)

A multifaceted role, focusing on internal Forest Service facilities, Forest Service land management roles, and community outreach. This was a one-of-a-kind role in the agency.

Forest Service Facilities – identified energy efficiency and renewable energy opportunities for Forest Service facilities. A notable project was facilitating the design of the new Sitka Ranger District building to achieve a high-performance building including a low energy usage as well as biomass and heat pump heating systems.

USFS Forest Management – Participated in reviewing and facilitating energy project proposals on National Forest lands. A notable project was the Thayer Creek hydro project north of Angoon.

Community Outreach – engaging with municipal, tribal, nonprofit and for-profit entities throughout SE Alaska to identify and evaluate potential renewable energy projects. Most of the projects were biomass heating (it's the Forest Service after all), but other sources such as hydro and tidal were also explored. Assisted in the development of grant applications for design and construction of renewable energy projects. Performed detailed feasibility studies, including detailed financial analysis. Collected and analyzed energy usage data. Conducted education and public information presentations.

Experience

U.S. Coast Guard – 1994 through 2013

Energy & Environmental Branch Chief (this is a civilian position)

Civil Engineering Unit Juneau

CEU Juneau provides facility engineering, environmental, and construction services to Coast Guard facilities throughout Alaska

Managed an interdisciplinary team to provide environmental and energy services throughout Alaska. Energy services included the following:

- Perform energy audits (typically ASHRAE Level 2) on facilities and vessels.
- Review designs and planned construction projects for energy improvement opportunities
- Implement advanced metering
- Utilize ESPC and UESC federal contract vehicles to implement energy projects
- Identify and implement renewable energy projects (the small wind turbine at Station Juneau is a demonstration project I implemented)
- Developed Unit Energy Profiles for every USCG unit in Alaska, which consolidated all energy usage at the facility and identified improvement opportunities.
- Participate in national and interagency energy teams

Juneau Commission On Sustainability – Member 2015-2017

Alaska Emerging Energy Technology Fund – Board Member 2016-2017