



PROJECT PROGRESS REPORT

PREPARED FOR THE DENALI COMMISSION BY THE
ALASKA CENTER FOR ENERGY AND POWER

- PROJECT TITLE:** Ground Source Heat Pump Assessment
- COVERING PERIOD:** 2nd Quarter 2011
- DATE OF REPORT:** June 30th, 2011
- GRANT RECIPIENT:** Alaska Center for Energy and Power
University of Alaska Fairbanks
451 Duckering Building
Fairbanks AK 99775-5880
- AWARD AMOUNT:** \$90,000
- PROJECT PARTNERS:** Cold Climate Housing Research Center
Alaska Energy Authority
National Renewable Energy Center
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- PROJECT OBJECTIVE:** The Alaska Center for Energy and Power (ACEP) and the Cold Climate Housing Research Center (CCHRC) shall work in cooperation with the Alaska Energy Authority (AEA) and National Renewable Energy Laboratory (NREL) to compile and synthesize existing information, identify gaps in knowledge that act as barriers to implementation, and examine the economics associated with applying Ground Source Heat Pumps (GSHP) in Alaska.

SUMMARY

As of this report, all project activities have been completed. The final report has been published, disseminated, and delivered to the Denali Commission. Work this quarter focused primarily on final editing and the peer review process. The project is on budget and will be fully expended.

BUDGET

As outlined in the award, the project budget is \$90,000 and includes funding for ACEP in the amount of \$59,876, as well as a sub award to CCHRC in the amount of \$30,124.

The ACEP budget includes \$33,495 for direct costs (personnel, benefits, travel, and publication materials) as well as \$26,381 in indirect costs, with time budgeted for overall project management, coordination, Task Two and Three activities, and Task One deliverables.

The CCHRC budget includes \$22,393 for personnel and \$1,050 for supplies, with time budgeted for Task One deliverables, project management, and coordination. NREL and AEA will contribute resources, project advice and feedback, and general professional assistance, as this topic is fundamental to their programs and missions. No specific match amount has been quantified.

Both the ACEP and CCHRC budgets will be fully expended, with no overages to report.

TIMELINE

As identified in the award, the performance period of this project is July 1st, 2010 through June 30th, 2011. The deliverable for this award, the GSHP report, was finalized and published on May 31st, with all project activity finalized before June 30th. There is no further activity anticipated for the award.

SUB AWARD STATUS

As reported last quarter, the sub award document to CCHRC, for the amount of \$30,124 as identified in the award document, had been extended from March 31st to May 31st to reflect the extension of the internal report deadline. No further extension was needed, as project activities met the May 31st deadline. The sub award has been fully expended. ACEP and CCHRC are currently closing out the sub award document.

PROGRESS TO DATE

Activities this quarter have focused on incorporating technical review edits into the final report, completing peer review activities, publication, and delivery to the Denali Commission.

Peer review recipients include ACEP and CCHRC staff not previously associated with the project, AEA staff, ISER, and various report contributors. In addition, NREL independently contributed funding for

several national experts to review the document and provide comment. In total, around 20 sets of comments were received during the peer review process, and were incorporated into the report.

On May 17th, ACEP and CCHRC presented at ACEP's Community Energy Lecture Series at the Blue Loon in Fairbanks, AK. This event served as a publication preview, walking through the report and highlighting major findings and recommendations. Several individuals interviewed or featured in the report, including Professor John Zarling, were in attendance, and provided good feedback and comment to the report.

After the technical editing and peer review process, ACEP and CCHRC completed final edits on the report. The final report was published on May 31st, 2011 and made publicly available shortly thereafter. Upon final publication of the report, both ACEP and CCHRC have widely distributed and disseminated the report and findings. This has included user and member lists for both ACEP and CCHRC, as well as distribution lists from relevant partners including REAP, UAF Cooperative Extension, and NREL.

The final report and other items such as the project inventory and annotated bibliography have been made available on both the ACEP and CCHRC websites for further dissemination of the project findings.

ACEP gave a final presentation for the Denali Commission on Friday, June 17th. The presentation summarized the project, provided an overview of the final report, and included a formal handover of several bound copies of the report.

ANTICIPATED MAJOR ACTIVITIES FOR NEXT QUARTER

The "In-Progress" phase of this award ends on June 30th, 2011. No further project activity is anticipated. In addition, the final report and all supporting activities have been finalized. As such, this will be the final quarterly report on the project.