

Battle Creek Diversion Project

Grantees	Alaska Energy Authority (Utility-Cooperative)
Technology Type	HYDRO
Region	Railbelt
AEDG Project Code	10316

REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
4	675	Battle Creek Diversion Project	7040003	407075	Final Design	3/15/12	6/30/16	Active

Grant 7040003: Battle Creek Diversion Project

Project Scope: Chugach Electric Association, Inc. (Chugach), on behalf of the Bradley Project Management Committee (BPMC), has been awarded funds to perform feasibility studies and a conceptual design for the Battle Creek Diversion project. Additionally, a non-capacity FERC license amendment and permit applications will be prepared.

Battle Creek is located two miles to the west of Bradley Lake hydroelectric project on the Kenai Peninsula. The Bradley Lake project is located at the northeast end of Kachemak Bay, about 27 miles from the city of Homer. The communities that will benefit from the project include all the communities served by the six Railbelt electric utilities that receive a share of the Bradley Lake project. The BPMC is comprised of representatives of these six Railbelt electric utilities which include Chugach, Anchorage Municipal Light and Power, Homer Electric, Matanuska Electric, Golden Valley, and the Seward Electric System.

This is a project to divert water from the upper watershed of the middle branch of Battle Creek into Bradley Lake. Based on Battle Creek stream flow measurements from 1991 to 1993, diverting a portion of the stream flow to Bradley Lake has the potential to increase annual energy output by 27,000 to 45,000 MWh, depending on the amount of flow to be diverted. Environmental, geotechnical, preliminary engineering and analytical work is needed to evaluate fish habitat, the potential energy resource, and diversion dam and conveyance (i.e. tunnel, pipe, open channel) alternatives to divert the water.

The work that would be funded includes a variety of tasks related to the resource, permitting, environmental and fish studies, preliminary engineering and design and preparing a Federal Energy Regulatory Commission (FERC) license amendment. In addition to the \$500,000 in grant funds, the BPMC members will provide a matching contribution of \$500,000 to fund this work.

The Alaska Energy Authority (AEA), under Project Manager Bryan Carey, P.E., will be administering this project.

Major permitting activities and permit requirements for this project include:

Submittal of a non-capacity license amendment to the Bradley Lake Project FERC license (AK-8221). Application for a Section 404 Permit from the U.S. Army Corps of Engineers. Completion of the Alaska Department of Natural Resources (ADNR) Division of Coastal & Ocean Management Consistency Review. Completion of the National Marine Fisheries Services Essential Fish Habitat Consultation process. Application for a water rights permit from ADNR. Application for a material sale contract from ADNR. Application for a ADNR land use permit and/or lease agreement for access to the project site and use of State lands for the project. Application for a Title 16 fish habitat permit from Alaska Department of Fish and Game. A contractor provided Stormwater Pollution Prevention Plan (SWPPP).

Project Status: The design has been revised and the process of amending the FERC license for the project has started. Agency consultations (Alaska Department of Fish & Game, US Fish & Wildlife Service, National Marine Fisheries) and the public have occurred. The license amendment application was submitted in 2015. Construction could occur in 2017 if the amendment is completed and permits are received in a timely manner.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$500,000.00	\$500,000.00
Other State Funding	\$0.00	\$0.00
Total State	\$500,000.00	\$500,000.00
Required Local Match	\$0.00	\$0.00
Federal Grant Funding	\$0.00	\$0.00
Total Project Costs	\$500,000.00	\$500,000.00