

GOAT LAKE *Hydroelectric Project*

Completed:

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Contact:

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Description:

Whitewater Engineering provided design and construction services to Alaska Power & Telephone for the 4.3 MW hydroelectric project near Skagway, Alaska. The project generates 12.7 average annual GWh of renewable energy and is certified by the Low Impact Hydropower Institute.

The project included construction of 7,200-ft of 24" steel penstock, concrete and steel powerhouse, concrete core earth filled dam, submerged intake, and siphon arrangement to lower the lake level an additional 25 feet. The project also includes an access road blasted from bedrock. This project has over 2000' of vertical head with 997 psi at the turbine.

