Gunnuk Creek Hydro

INSIDE PASSAGE ELECTRIC COOPERATIVE

JODI MITCHELL, CEO & GM

APA ANNUAL MEETING
August 23, 2019

Kake, Alaska
Population ~ 600
~ 80% + Alaska Native
Gunnuk Creek Hydro Project

- Will serve Kake, an isolated microgrid about 100 miles south of Juneau
- Uses existing USACE water supply dam
- Penstock from dam to hatchery, with water diversion to hatchery to improve water quality and volume
- HDR design
- Construction Underway
- 2100’ penstock
Gunnuk Creek Hydro Project

Access road construction built 2018
Gunnuk Creek Hydro Project

Access road construction 2018
Gunnuk Creek Hydro Project

Penstock route construction 2018
Gunnuk Creek Hydro Project

Penstock construction 2019 – Logging yarder used to deliver concrete and materials
Gunnuk Creek Hydro Project
Penstock construction 2019
Gunnuk Creek Hydro Project

Penstock construction 2019 – concrete piers to support penstock
Gunnuk Creek Penstock Installation September 2019
Another penstock photo...
Last one for now...
Gunnuk Creek Hydro:

• Allows for “diesels-off” during rainy periods
• Estimated to provide ~ half of Kake’s current power requirements
• Will reduce costs of service through diesel savings
• Will reduce rates to IPEC’s members
• Paid for with grants - $3.92m from the REF Round 9, $3m from USDA-HECG program, and $1m loan from NRUCFC (total ~ $8 million investment)
• Will save money for the State PCE program through reduced rates to PCE-eligible kWh sales
• Reduced rates to businesses, schools, churches, and other entities not eligible for PCE (economic drivers)
Project will be complete spring 2020

• Ribbon-cutting spring 2020, probably late April or early May surrounding IPEC’s annual meeting in Kake
• Planning for Catamaran day-trip Juneau-Kake-Juneau, IPEC and guests
• Will ask for donations to offset costs
• We will advertise with APA, invite dignitaries
• JMitchell@InsidePassageElectric.org