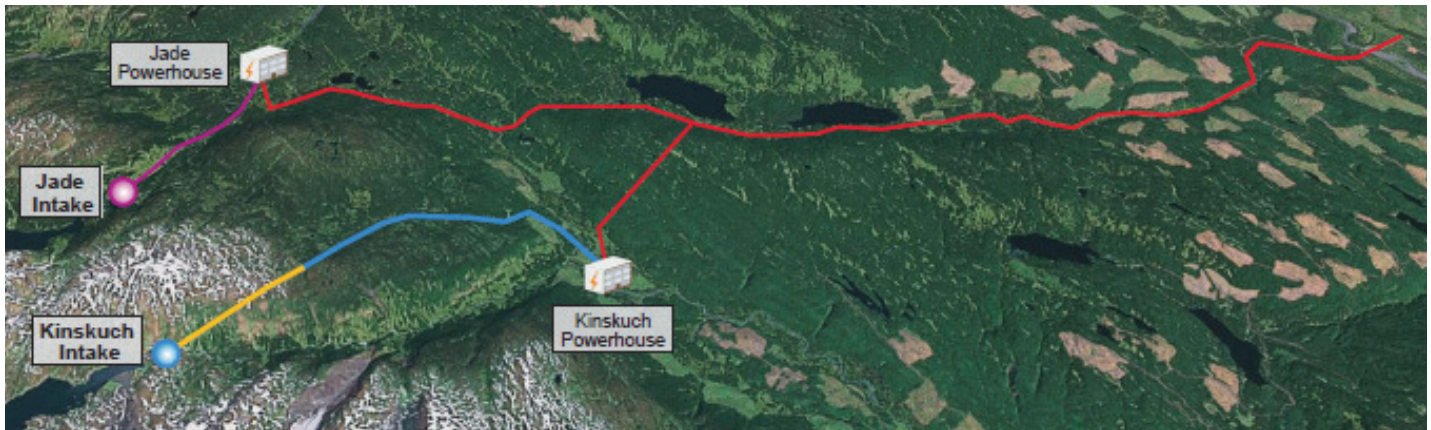


# KINSKUCH HYDRO PROJECT

## JADE LAKE CLUSTER

### PROJECT SYNOPSIS



Google Map Image

### PROJECT DESCRIPTION

A high elevation intake will divert flow from Kinskuch Lake into buried penstock leading to a powerhouse before discharging back into the Kinskuch River. The Kinskuch River is a tributary of the Nass River.

A new 138 kV transmission line will be constructed for interconnection at the BC Hydro 11381 line along Hwy 37.

### PROJECT CHARACTERISTICS

Gross Head	770 m
Est. Design Flow	13 cms
Est. Plant Capacity	76 MW
Annual Energy	270 GWh

### PRELIMINARY COST DATA

INTAKE TYPE	Lake Tap
PENSTOCK LENGTH (TOTAL)	
Tunnel (4.3 m)	5110 m
Steel (1.8 m)	2800 m
Steel (3 x 1.0 m)	1500 m
New Roads (%)	100
POWERHOUSE	
Turbines	3 x 25 MW
Type	Pelton
TRANSMISSION LINE	
Voltage	138 kV
Length	40 km
Structure	H-frame
SUBSTATION UPGRADE	TBD
ESTIMATED CAPITAL COST	TBD

### SITE CHARACTERISTICS

#### PROJECT LOCATION

- 50 km east of Stewart
- 30 km north of Alice Arm
- Existing port facilities in Prince Rupert

#### EXISTING DEVELOPMENT

- Logging roads are available to the base of the slopes in this area

### DEVELOPMENT STATUS

#### TECHNICAL STATUS: PRELIMINARY DESIGN

- Project feasibility assessment complete
- Preliminary design in progress
- Detailed hydrology analysis based on regional data

#### FINANCIAL STATUS: PROPOSAL SUBMISSION

- Evaluation using detailed cost estimates, hydrology, reservoir modelling
- Proposal submitted to BC Hydro on November 25, 2008
- Proposal unsuccessful in 2008 Clean Call for Power
- Opportunity for submission for next BC Hydro Clean Call for Power

#### REGULATORY STATUS: APPLICATION ACCEPTED

- Applications for water license and land tenure accepted on June 20, 2008
- Accepted into EAO process on November 14, 2008
- Previous application submitted by Interpac Power Corp.

#### NEXT STEPS FOR DEVELOPMENT

- Continue discussions with First Nations in the area
- Continue preparing Draft Application Information Requirements for EAO
- Initiate consultation with key stakeholders
- Detailed design