



**Hydro ECI inc.**

Electricity, Control-protection, Instrumentation

**Project description**

<b>Project</b>	Ashlu Creek
<b>Owner</b>	Innergex
<b>Location</b>	British-Columbia, Canada
<b>Turbine(s)</b>	3 horizontal Francis of 18 MW each
<b>Turbines manufacturer</b>	Andritz Hydro
<b>Auxiliaries (per turbine)</b>	1 speed governor 1 voltage regulator 1 hydraulic power unit 1 lubrication unit 1 lifting unit 1 cooling system 1 butterfly valve
<b>Turbine's operating modes</b>	Automatic / Manual / Test
<b>Turbine's loading modes</b>	Position / Water Level
<b>Energy dissipation system</b>	6 valves can dissipate 5 m <sup>3</sup> /s of water each.
<b>Intake</b>	1 rubber dam 1 sluice gate 1 intake gate
<b>Rubber dam and sluice gate's operating modes</b>	Automatic / Manual
<b>Rubber dam's control modes</b>	Pressure / Level / Flow
<b>Sluice gate's control modes</b>	Position / Level
<b>Control PLC</b>	Schneider Momentum
<b>Operator interface</b>	Wonderware Intouch
<b>Equipements and services provided</b>	Phase and neutral cabinets. Medium voltage switchgear equipment. Turbines - generator control and protection panels. Line control and protection panel. Energy dissipation system control panel. Intake control panel. Control system design and programming. Installation supervision. Commissioning.