



**Hydro ECI inc.**

Electricity, Control-protection, Instrumentation

### Project description

<b>Project</b>	Franquelin
<b>Owner</b>	Axor
<b>Location</b>	Québec, Canada
<b>Turbine(s)</b>	1 Francis double runner of 9.9 MW
<b>Turbines manufacturer</b>	Litostroj Hydro
<b>Auxiliaries (per turbine)</b>	1 voltage regulator 1 hydraulic power unit 1 turbine lubrication unit 1 generator lubrication system 1 water filtration system 1 ventilation system
<b>Turbine's operating modes</b>	Automatic / Manual / Test
<b>Turbine's loading modes</b>	Position / Power / Water Level
<b>Intake</b>	1 intake gate
<b>Intake gate's operating modes</b>	Automatic / Manual
<b>Weir</b>	2 sluice gates
<b>Sluice gates' operating modes</b>	Automatic / Manual
<b>Sluice gates' control modes</b>	Position / Level
<b>Control PLC</b>	Schneider Momentum
<b>Operator interface</b>	Wonderware Intouch
<b>Equipements and services provided</b>	Turbine - generator control and protection panel. Line control and protection panel. Intake control panel. Weir control panel. Control system design and programming. Substation PLC programming. Commissioning.