



Hydro ECI inc.

Electricity, Control-protection, Instrumentation

Project description

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| Project | Umbata Falls |
| Owner | Innergex |
| Location | Ontario, Canada |
| Turbine(s) | 2 horizontal Kaplan of 11.97 MW each |
| Turbines manufacturer | Andritz Hydro |
| Auxiliaries (per turbine) | 1 speed governor 1 voltage regulator 1 hydraulic power unit 1 lubrication unit 1 cooling system 1 butterfly valve |
| Turbine's operating modes | Automatic / Manual / Test |
| Turbine's loading modes | Position / Water Level |
| Intake | 2 sluice gates |
| Sluice gates' operating modes | Automatic / Manual |
| Sluice gates' control modes | Position / Level |
| Control PLC | Schneider Quantum and Momentum |
| Operator interface | Wonderware Intouch |
| Equipements and services provided | Phase and neutral cabinets. Medium voltage switchgear equipment. Turbines - generator control and protection panels Line control and protection panel. Control panel interconnection transmission line Hydro One. Intake control panel. Control system design and programming. Electrical installation. Installation supervision. Commissioning. |