



Kleinschmidt's primary clients are North American-based hydro owners and operators with assets ranging in size from less than 1MW up to 50 MW. After nearly 50 years of hydro-focused service, our core business continues to be geared toward the rehabilitation and modernization of existing hydro facilities to address the aging infrastructure present within the hydroelectric industry. The results of these projects translate into solutions that are durable, maintainable, and operable.

#### **Civil/Structural Services:**

- Dam rehabilitation
- Gate improvements
- Powerhouse modifications
- Penstock upgrades
- Intake modifications

#### **Mechanical Services:**

- Balance of plant design
- Turbine condition assessment
- Turbine component design
- Index testing
- Hydraulic power units
- Hoists / gate operators
- Trashrakes, Material Handling, & Gate Operators

#### **Electrical Services:**

- Generator rehabilitation
- Automation and control systems
- Metering and protective relay
- Power distribution and GSU
- Short circuit and arc flash studies

#### **Ecological & Regulatory Services:**

- Regulatory management
- Fish passage design and effectiveness testing
- Eel passage design and effectiveness testing
- Environmental science

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