We have over 40 years’ experience in hydroelectric engineering and are leaders in applying innovative thinking to projects.

Our experience, both in New Zealand and internationally, covers the full range of hydropower schemes (mini up to large) including greenfield development and upgrading of existing schemes.

**Expertise**

**Our specialist services include:**

- **Conceptual and feasibility studies**
  - Project definition and value engineering
  - Geotechnical investigations and assessment
  - Hydrology and hydroenergy
  - Hydraulic and civil engineering design
  - Environmental assessment

- **Consents and Detailed design and documentation**
  - Geotechnical investigations and assessment
  - Hydrology and hydroenergy
  - Hydraulic and civil engineering design
  - Preparation of tender documentation and specifications
  - Designer advice during construction.

- **Construction management including commissioning**
- **Safety management including operation, maintenance and surveillance manuals and emergency action planning**
- **Rehabilitation and upgrading**
- **Peer review and expert witness**

**Experience**

**Our reputation for quality work includes:**

- Lake Mainit, Catuiran and Cantakoy (25 MW and two x 8 MW respectively) EPC projects, Philippines
- Arnold greenfield (40 MW) and mini on existing dam (4 MW) hydropower projects, feasibility design, South Island, New Zealand
- Sibulan two station cascade hydroelectric scheme (42 MW) design and construction supervision in Mindanao, Philippines
- Detailed design for the 13 MW two station Tudaya 1 and 2 project, Philippines
- Project Aqua (540 MW, six station cascade with 60 km canal) pre-feasibility and feasibility studies, New Zealand
- The 7.5 MW toe of dam power station as part of the 50 m high Opuha Dam project, South Canterbury, New Zealand
- Review consultant through feasibility and into procurement for the Tina River hydropower project, Solomon Islands with a 20 MW, 40 m high concrete faced rockfill dam
- Dam safety panel for the design through construction of the 520 MW Huoi Quang project in Vietnam, involving a 104 m high concrete gravity dam
- Rehabilitation studies and design for Ambuklao and Binga hydropower schemes involving two embankment dams (129 m and 107 m high respectively) in the Philippines
- The feasibility study of retro fitting hydro at 42 existing irrigation water supply dams or weirs in Queensland, Australia.

Any questions you can email us here:
dams@tonkintaylor.co.nz