

Key Facts

What Innovative, low head, high efficiency propeller turbine coupled with a state of the art generator. Designed as a high quality, cost effective hydro solution.

Applications Alternative revenue stream
Protects schemes from power tariff fluctuations
Alternative to large pressurised pipe

Head Range 4-11 m

Flow Range 4-9 m³/s

Nominal Output 600kW at 8 m³/s and 9 m head

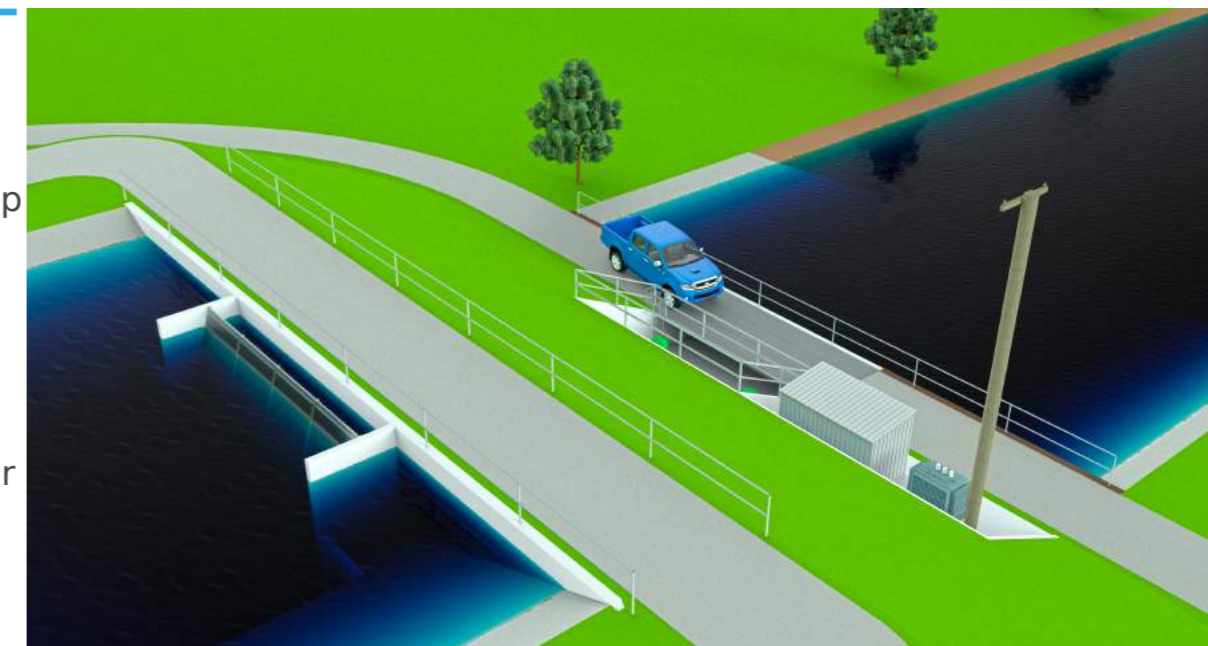
Efficiency >87%

Versatility and flexibility

InRace is designed to be easily installed, low maintenance and suitable for a range of sites. InRace is a complete package system backed up by the design expertise and manufacturing experience of our Christchurch based team.

Alternative to pressurised pipe

Hydro generation can be a great addition to a pressurised pipe system. Large diameter, costly pipe sections can be avoided by producing power upstream and using pumps downstream. We are also developing a solution to replace pressure reducing valves with turbines in pressurised pipe systems.



Enhanced sustainability

Sustainability is about doing more with what we have. Small scale hydro is rapidly becoming the world's premier source of renewable power generation. Integrating small scale hydro into new and existing water supply systems maximises the use of our water resource. By producing low emission power to offset more harmful forms of power generation irrigators can lead the way into a future of sustainable societies.

Improved Economics

At sites where excess power is produced the extra power can be sold back into the grid. The extra revenue created can be used to reduce the cost of water to customers, offset maintenance costs, or provide enhanced returns to scheme owners. Depending on the specific scheme the payback period of installing InRace generation can be as little as 4 years.

Reduced Risk

The cost of power for irrigation operations can vary - from year to year or even from day to day. The InRace unit will keep producing kW after kW of power for as long as the water flows. Where the site is right an InRace system produces 100% of the power needed for the scheme - completely protecting the operators from wholesale and retail power price fluctuations.

