

**ENVIRONMENTALLY SUSTAINABLE
HYDRO POWER LOCATED IN
FAR NORTH QUEENSLAND**

Kareeya

Hydro



> About the project

Kareeya Hydro has been providing clean, efficient electricity to Queenslanders since 1957. It has a capacity of 86.4 megawatts (MW) which is bid into the National Electricity Market. The station's ability to start quickly is important in ensuring a secure, reliable power supply for distribution to consumers. Taking its name from the Aboriginal word meaning 'big water', the Kareeya Hydro project originally comprised construction of Koombooloomba Dam, the Tully Falls Weir, and Kareeya Hydro.

A \$30 million upgrade to the station between 2005 and 2008 has effectively extended the life of the power station by 25 years and increased capacity, generation, efficiency and availability.

> Water supply

The catchment area of the Tully River spans approximately 260 square kilometres across one of Australia's wettest regions. Some of this rainfall finds its way to Koombooloomba Dam in the Cardwell Ranges, which has a standard capacity of 180,000 megalitres and can manage an additional 25,000 megalitres using a rubberdam extension (an inflatable rubberised tube fitted along the crest of the spillway). Water is released into the Tully River from Koombooloomba Dam and flows approximately 13 kilometres to the Tully Falls Weir, which is situated just above the Tully Falls. The weir is a regulating pond for Kareeya Hydro, which sits about two kilometres below the Tully Falls.

> Environment

Hydro-electric power generation (using the energy of moving water to drive generators) is one of the cleanest and most efficient methods of producing electricity. Kareeya Hydro does not emit any greenhouse gases. It operates within a certified ISO 14001 Environmental Management System and is an accredited green generator.

> Community and tourism

Kareeya Hydro plays an active role in the local community, supporting initiatives that promote regional development, education and protection of the local environment. The station provides flood mitigation in the lower Tully River by monitoring and controlling water levels in the dam and enables commercial white-water rafting activities through scheduled water releases.

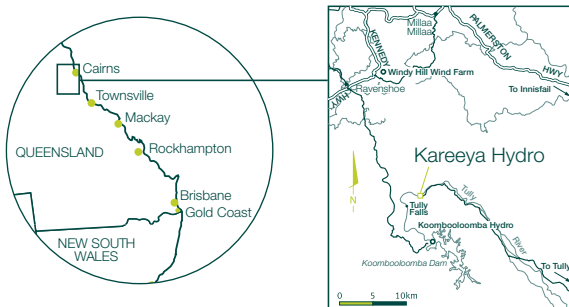
In 2007 Kareeya Hydro celebrated 50 years of operation, hosting an open day which enabled the local community to tour the station and view displays of its 50 years of operation.

About Stanwell

Stanwell is a Queensland Government owned corporation with an energy portfolio comprising coal and hydro facilities throughout Queensland. Currently, Stanwell trades more than 30 per cent of the State's electricity requirements.

Statistics

Capacity	86.4 MW
Greenhouse Gas Savings	540,000 tonnes per year
Powered Equivalent	864,000 x 100 watt light bulbs
Commissioned	1957



Kareeya Hydro is located in the Wet Tropics World Heritage Area, 60 kilometres north-west of Tully, in Far North Queensland.

