

community update

August 2009



Improving our local environment

Stanwell is working with the Barron River Green Corridor Project to revegetate approximately 3,500 square metres of our leases within the Wet Tropics World Heritage Area.

The Green Corridor Project, a community partnership project to revegetate the Barron River from the upper catchment to the mouth, aims to improve the health of the river system through restoration of the watercourse vegetation.

The revegetation work, undertaken by volunteers, involves removing weed species from the riverbank and watercourse and planting native plants.

The restoration work began in June 2009 at Stanwell's Kuranda Weir location, adjacent to the Barron River. A further 5,000 square metres of Stanwell's leases have been identified for revegetation, with work expected to continue for the next two to three years.



Weeds are being replaced with native plants as part of the Barron River Green Corridor Project.

Stanwell is committed to improving our environmental performance through quality land management practices. By revegetating these areas of the Barron River, we are working to improve the environmental value for the long term.

Barron Gorge Hydro Performance Statistics

Performance measures	Barron Gorge Hydro		Kareeya Hydro		Koombooloomba Hydro	
	June quarter	Year to date	June quarter	Year to date	June quarter	Year to date
Energy sent out (GWh)	75.10	264.2	156.43	495.4	8.19	22.7
Availability factor (%)	88.68	49.87	92.34	92.42	86.57	99.59

Year to date: financial year (July '08 to June '09)

Energy sent out: the amount of power exported to the electricity grid after the energy used by the power station itself.

Availability factor: the total energy available to the system, allowing for planned and forced maintenance, as a percentage of total energy capacity.

Health, Safety and the Environment

Upcoming Koombooloomba bridge upgrade

From September 2009, Stanwell will be undertaking maintenance work on a bridge downstream of Koombooloomba Dam, which provides water for Kareeya Hydro.

This bridge is a 10-span, single lane, timber girder bridge. It is approximately 91 metres long and is used by Stanwell and local authorities to cross the river for dam maintenance and surveillance activities.

As part of the bridge maintenance, Stanwell will be replacing the existing timber girders with a new concrete deck and undertaking maintenance on the approach roads.

Stanwell has appointed CivilPlus Constructions Pty Ltd of Townsville to carry out the work. Most of the site construction activities are planned for between September and December 2009. Construction workers are expected to be stationed in Ravenshoe.

The bridge and the road immediately adjacent to it will be closed off as a construction site, however Lake Koombooloomba will still be accessible to the public.



Koombooloomba bridge

There will be numerous truck movements on the Ravenshoe–Koombooloomba road during this period, including long loads carrying steelwork and concrete deck beams and workers travelling to and from the site each day.

Please be alert to this construction work and the likelihood of extra traffic in the area, if you are planning to visit Tully Falls or Koombooloomba while this work is underway.

Community corner

Kareeya supports Tully State High School's future entrepreneurs

Thirteen year ten students at Tully High School are well on their way to becoming business leaders through the Young Achievement Award (YAA) competition, a business skills program designed to develop business enterprise skills that assist students to make a successful transition from school to the workplace.

The Tully High School students are directors of 'Gotchya', a business created to produce and market an environmentally friendly toad catching product.

Under the competition requirements, students have to successfully start a company, design and sell a product and then liquidate the company.

Students involved in the program work as a team to manage their business from beginning to end, experiencing all facets of

operation from manufacturing a product, through to sales and marketing, human resources, environmental aspects, financial management and liquidation of the business.

Kareeya Hydro and several other Tully businesses provide annual sponsorship for Tully State High School's entrance into the YAA.

The team at Kareeya Hydro take great pride in supporting and recognising the local community through sponsorship of a variety of community services, functions, education and sporting initiatives.



The directors of Gotcha with mentors from the local business community, including employees from Stanwell.



Outages

Barron Gorge Hydro rewind project

Work commenced on the Unit 1 generator rewind on 29 June 2009, as part of Stanwell's \$9 million upgrade of Barron Gorge Hydro.

The generator refurbishment project will improve the reliability and efficiency of the generating units at the station, as well as increasing the maximum electrical output capacity of the generators.

Dowding and Mills Engineering's United Kingdom division has been contracted to carry out the work, with their Queensland division subcontracted to support.

A pre-overhaul testing program was conducted before Unit 1 was removed from service. Over the next three weeks, the turbine bearing lower guide was removed and the rotor was uncoupled from the turbine and lifted from the generator.

Work then began on removing the ten rotor poles for refurbishment. Each pole weighs two tonne and four wedge keys hold each rotor pole in place. These were removed hydraulically and the poles, along with a number of other components, were sent to Brisbane for refurbishment.

The old windings from the stator core were removed and the core cleaned. A core flux test was carried out to determine the integrity of the core. The results of this test require further investigation which could lead to an extension in the outage timeline.

Following the results of the investigation, work will continue on installing the new stator windings into the existing stator core, including final testing. The generator will be reassembled and aligned and the rotor (including the main shaft and turbine) will be dynamically balanced before the unit is recommissioned and brought back on line.



The turbine rotor being lifted out of the generator.



The one metre long wedge keys being removed from one of the 10 rotor poles.

Barron Gorge Hydro's Unit 2 continues to operate throughout the outage, to maintain planned levels of electricity generation and meet the water release requirements for rafting activities on the Barron River. These planned outages are scheduled for periods of traditionally lower energy demand and reduced inflows to the Barron River, to limit unnecessary disruptions.

Before starting the project, contractors undertook mandatory training sessions, including site inductions and familiarisation, Wet Tropics training and training in Stanwell's safe work system.

While every effort has been made to ensure minimal impact to the local community during the scheduled outages, local neighbours to the Barron Gorge Hydro will notice some additional traffic on the Lake Placid Road. This is due to the delivery of materials and services required to complete the outage, as well as an additional contractor presence on site. Stanwell appreciates your patience during the outage period.



The turbine rotor being lifted out of the generator.

Community corner

Stanwell Youth Music Education Festival returns to Cairns

Following on from the successful SunWater-Stanwell Winter Music School in Rockhampton in July, the Southern Cross Soloists travelled to Cairns to host the 2009 Stanwell Youth Music Education Festival at St Augustine's College, from 21 to 23 August 2009.

This year's festival provided an opportunity for more than 70 young music students from Northern Queensland to learn from five of Australia's top musicians and tutors.

The students, aged 10 to 25 years, were placed in ensembles (symphonic band, string orchestra and piano class) and were guided through a program of intensive training, workshopping and masterclasses by Louise King (strings), Michael Bannon (percussion), Ben Marks (brass), Kevin Power (piano) and Southern Cross Soloists Artistic Director, Paul Dean (woodwind).

The festival culminated in a brilliant performance at Lennons Hall, in front of a sell-out crowd, with participants showcasing the new material they had learned and rehearsed over the weekend.

The event was an artistic success and a great networking opportunity for the students and local community.



A student participating in a symphonic band workshop during the 2009 Stanwell Youth Music Education Festival

New members of our local community

Stanwell extends a warm welcome to all new residents of our local community. New residents who would like to be included on the Far North Queensland mailing list should contact Rhonda Rowe on 3335 3870.

Stanwell Tennis Fun Day

Tennis Queensland and Stanwell would like to invite you to a free Stanwell Tennis Fun Day, being held for the Cairns community.

When: Sunday 6 September 2009

Time: 10:00 am to 2:00 pm

Where: Tropical North Tennis Association, 365 Lake St, North Cairns

- Free junior coaching clinic for ages 13 and under (please register before 3 September to participate)
- Free court hire
- Free sausage sizzle
- Plus demonstrations and an exhibition match featuring some of Queensland's top players

To enrol in the free junior coaching clinic, please email your details to jjenner@tennis.com.au

For further information, visit www.tennis.com.au/qld



A commitment to operational excellence and the environment

Stanwell owns and operates three of the most northern generating sites within the National Electricity Market; Barron Gorge, Kareeya and Koombooloomba Hydros in Far North Queensland.

These hydros are a vital part of Queensland's renewable electricity and will continue to deliver a reliable supply of clean energy for many years to come.

Further information:

If you would like to be removed from this mailing list please contact Rhonda Rowe on 3335 3870.

