

# community update

February 2009



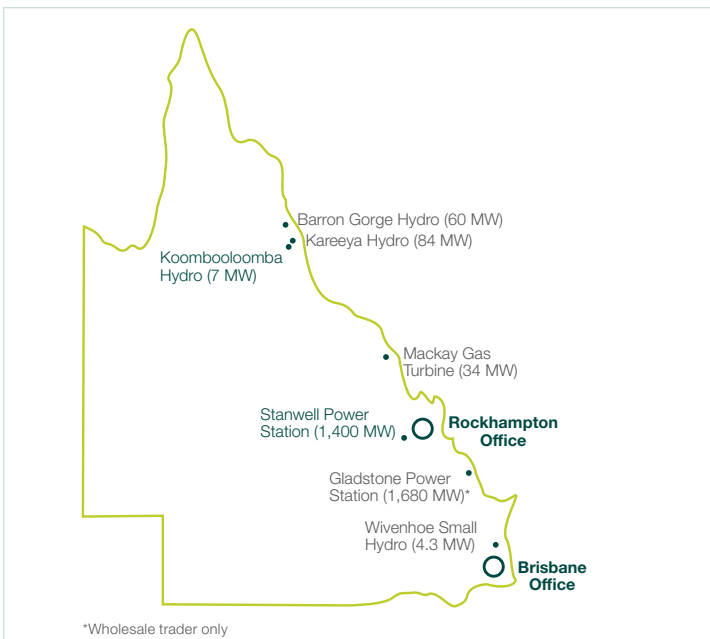
## Dengue Fever

Dengue fever is an infection transmitted by specific mosquitoes and found in tropical areas around the world including parts of Australia. There is currently a dengue outbreak in North Queensland.

The infection can cause a range of symptoms, some of which can be severe, people are advised to seek medical attention for treatment. There are a number of ways to protect yourself from dengue.

Primarily you should avoid being bitten by dengue mosquitoes and get rid of their breeding sites. Stanwell has developed an dengue management plan and awareness session to assist

with worker education in the affected areas. In the northern region insect repellent is available to all workers and visitors. There are now multiple strains involved with the recent outbreak, as a result Stanwell has increased its education to the workforce and issued "Dengue Packs" for workers and their families. The Dengue Pack contains personal insect repellent, plug in mozzie zapper for indoors, mozzie coils for outdoors, surface spray, Queensland health checklist and Material Safety Data Sheets for all chemicals inside a green recyclable bag.



### Stanwell's portfolio currently consists of:

- **Stanwell Power Station**  
A 1400 MW coal fired power station 22 kilometres west of Rockhampton in Central Queensland.
- **Mackay Gas Turbine**  
A 34 MW gas turbine located in West Mackay, Central Queensland.
- **Wivenhoe Small Hydro**  
A 4.3 MW hydro located on Wivenhoe Dam, 90 kilometres northwest of Brisbane.
- **Barron Gorge Hydro**  
A 60 MW hydro located in the Wet Tropics on the Barron River, 20 kilometres northwest of Cairns.
- **Kareeya Hydro**  
A 86.4 MW hydro located in the Wet Tropics on the Tully River, 60 kilometres northwest of Tully, Far North Queensland.
- **Koombooloomba Hydro**  
A 7 MW hydro located in the Wet Tropics on Koombooloomba Dam, 37 kilometres south of Ravenshoe.

# Barron Gorge Hydro Performance

Performance Measures	Barron Gorge Hydro		Kareeya Hydro		Koombooloomba Hydro	
	December Quarter	Year to Date	December Quarter	Year to Date	December Quarter	Year to Date
Energy sent out (GWh)	19.5	67.4	116.1	190	4.2	80.0
Availability factor (%)	80.59	89.09	93.5	86.26	80.35	86.75

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

Stanwell’s commitment to reducing our environmental impact at and around our sites also includes the protection of our native animals. To make way for roadways and access tracks, rail corridors, power line corridors, and other above and below ground services, vegetation must be cleared. The effect caused by this clearing is called the linear barrier effect. These breaks in vegetation present as physical barriers for many animals. Many small mammals do not cross clearings as they can become easy prey. Other predatory animals have learned that these crossings are prime hunting grounds.

Some arboreal (tree dwelling) mammals of the Wet Tropics do not ever set foot on the ground. When a corridor is introduced and the tree canopy is interrupted as a result of the clearing, these animals are effectively isolated from the vegetation on the other side of the corridor.

Stanwell maintains the vegetation along roadways by only pruning vegetation that impedes on the carriageway of the road. The tree canopy is allowed to then regrow over the top of the road. This increases the canopy connectivity which allows arboreal species to traverse safely across roadways.

Stanwell also retains the vegetation that grows along the banks of rivers and creeks (riparian vegetation) wherever possible along power line corridors and roadways. By preserving riparian and low growing, native vegetation it increases the connectivity between habitats which provides small mammals with a safe passageway across the power line corridors and roadways.



Powerlines, roads, access tracks, and railway lines create barriers to wildlife movement.



Riparian Vegetation is kept in tact to promote connectivity across powerline corridors

To know more about Stanwell’s environmental initiatives visit [www.stanwell.com](http://www.stanwell.com)

## Trainee and Apprentice Intake at Kareeya

Kareeya Hydro recently called for applications for a Business Administration Trainee and a Fitter & Turner Apprentice based at the station. Interviews for the positions were held in February.

The successful Business Administration Trainee, Melissa Brown commenced work at Kareeya Hydro in February. Melissa grew up in Tully and attended Tully State High School. We welcome Melissa to the team and look forward to helping her develop and build on her administration skills.

The successful Fitter & Turner Apprentice, Bradley Sweeny commenced work at Kareeya Hydro in early March. We look forward to also welcoming Bradley as a valued member of the Stanwell team.

The Business Administration Traineeship is a Certificate 3 and is conducted over a 12 month period. The trainee will do both on the job training as well as attending TAFE one day a week.

The Fitting & Turning Apprenticeship is a four year apprenticeship and again includes both on the job training and block periods of TAFE attendance.

The number of applications for trade based apprenticeships has dropped over the last few years. With this in mind, and to

build and develop potential applicants, Stanwell in conjunction with CRGT is implementing a school-based apprenticeship with the goal of offering the student an apprenticeship once they have completed their schooling. The two years completed on the school-based apprenticeship will give the student credit towards their apprenticeship. Discussions are currently underway with the training provider to implement this school-based apprenticeship as soon as possible.



*Kareeya Hydro Site Manager Brad Perry (left) and Station Support Michelle Juillerat (right) welcome Melissa Brown to the station.*

## Floods in North Queensland

Recent rain in North Queensland has seen both the Tully and Barron rivers in flood. January saw the rains start in earnest in the Cairns area as well, with approximately 950mm, twice the monthly average, falling during a 30 hour period.

Koombooloomba Dam recorded 621mm of rainfall during January, well above the monthly average of 329mm.

A peak flood level of 10.7 metres, 4.7 metres over the Tully Weir, was recorded on 1 February 2009. Indications are that this was a 1 in 200 year event at the Weir.

With the heavy rainfall, small landslides and road flooding was experienced in North Queensland, which prevented Stanwell employees from attending sites for a number of days due to the road blockages. Barron Gorge Hydro continued to operate but safety concerns for the plant required Kareeya Hydro to be shut down for two days. Both sites have the ability to be operated remotely by our local On Call Officer or our Brisbane Trading Division.



*Lake Placid Road, Cairns*



*Lake Placid Road, Cairns*



*Tully Gorge Road*

The additional rains have also topped up both Tinaroo and Koombooloomba dams, with Tinaroo being at 94% full and Koombooloomba at 93% at the end of February 2009.

The increased river flows have allowed both sites to generate above budget for the month of January, further supporting renewable energy in Queensland.



Barron Gorge

## Outages – Barron Gorge Generator Rewind

In April, work will begin on a \$9 million upgrade at Barron Gorge Hydro to improve the reliability of the station and increase the plant's life.

Barron Gorge Hydro was commissioned in 1963 with an original design life of approximately 40 years.

In 2003, a strategic plan was developed that extended the life of Barron Gorge Hydro until 2055, however, to achieve this a refurbishment program to extend the life of other major non-civil components of the station was commenced by Stanwell Corporation (Stanwell).

A staged approach to the refurbishment program was necessary due to the working space restrictions within the underground power station. Phase one included upgrading the majority of the originally installed electrical plant at the power station was completed in 2005/2006.

The second phase of the refurbishment program consists of the refurbishment of both the generators. The Barron Gorge Hydro generators are 45 years old which is considered to be close to the end of reliable life for generator insulation systems of this technology.

As a result of advances in modern day generator insulation systems the proposed 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.

Unit 1 generator will be refurbished first followed by Unit 2. The nominated generator outage windows are planned for the low production months for the hydro and are outside any future planned outage windows of Stanwell's remaining generation portfolio.

Date	Milestone
April 2009	Stator Coil Manufacturing for one Unit Complete
July – October 2009	Refurbishment of Unit 1 Generator (16 week outage)
February 2010	Stator Coil Manufacturing for second Unit Complete
July – October 2010	Refurbishment of Unit 2 Generator (15 week outage)

Table 2 - Project Key Milestone Dates

### Work to be carried out during the outage includes:

- A pre-overhaul testing program
- Generator Disassembly including rotor removal and Stator core testing
- Stripping and disposal of old stator winding
- Conduct generator bearing condition assessment and testing
- Install new stator winding into the existing stator core including final testing & painting
- Installation of IRIS Online PDA Couplers for online condition monitoring
- Generator assembly and alignment
- Final dynamic balance of rotor (including main shaft and turbine)
- Commission generator and final acceptance heat-run testing

Whilst 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. The additional traffic will be due to the delivery of materials / services required to complete the outage, as well as an additional contractor presence on site. Stanwell Corporation appreciates your patience during the outage period.

# Community corner

## Stanwell supports Cairns sporting families

Stanwell recently committed \$5,000 in sponsorship to support to the Cairns Hockey Association's Children's Play Area Project. The hockey club has undertaken to develop a covered, secure, supervised play area for young children. The initiative is designed to allow parents not currently playing hockey—due to having children requiring care—to return to the sport.

The project is expected to benefit not only the local hockey community, which already has an active hockey mother's daycare group, but also other groups who use the facility. Cairns Hockey has close relationships with the Cairns Vigarò Association and the local tennis and swimming complexes that also utilise the North Cairns Sporting Precinct.

Construction of the new play area will commence this month, with completion scheduled to coincide with the beginning of the 2009 hockey season in early March. The project will be developed to meet all relevant health and safety guidelines.

Stanwell's sponsorship of the project is strongly aligned with the company's social investment strategy which promotes support for educational, environmental and health and safety initiatives—including sporting and other initiatives that seek to promote a healthy, active and safe lifestyle—within the communities in which we operate.

## Kareeya Hydro working with the Community

Supporting the communities in which we operate is a priority for Stanwell. The team at Kareeya Hydro is committed to the Far North Queensland Region and so far this year has supported a variety of community services, functions, schooling and sporting initiatives.

As the 2008 school year drew to a close, Kareeya provided sponsorship for two local High School awards presentations, providing recognition of academic excellence. In addition, funds have been provided to support facilities improvements for special education programs and academic development at local schools. Of special mention is Kareeya's support of Tully State High School's Wishbone Project, a community project that has been successful in encouraging indigenous participation and cultural understanding in schooling.

Community support at Kareeya has involved sponsorship of the 2008 Tully entrant for the Royal Flying Doctor Service Spirit of Queensland Awards, monetary support towards the publication of a Crime Prevention Review book, sponsorship of the Community Aquatic Festival and support for the 2008 Community Carols by Candlelight.

In the sporting arena, sponsorship has been provided to various clubs for the purchase of equipment to promote youth and community participation in physical activity towards achieving a healthy lifestyle. To encourage and support local youth in their sporting endeavours, Kareeya's annual Russell Todd Memorial Scholarship is currently open for applications from up and coming athletes in the Tablelands regional area.

The team at Kareeya takes great pride in providing this valuable support and recognition to the local community.

## 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.

## Further information:

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