

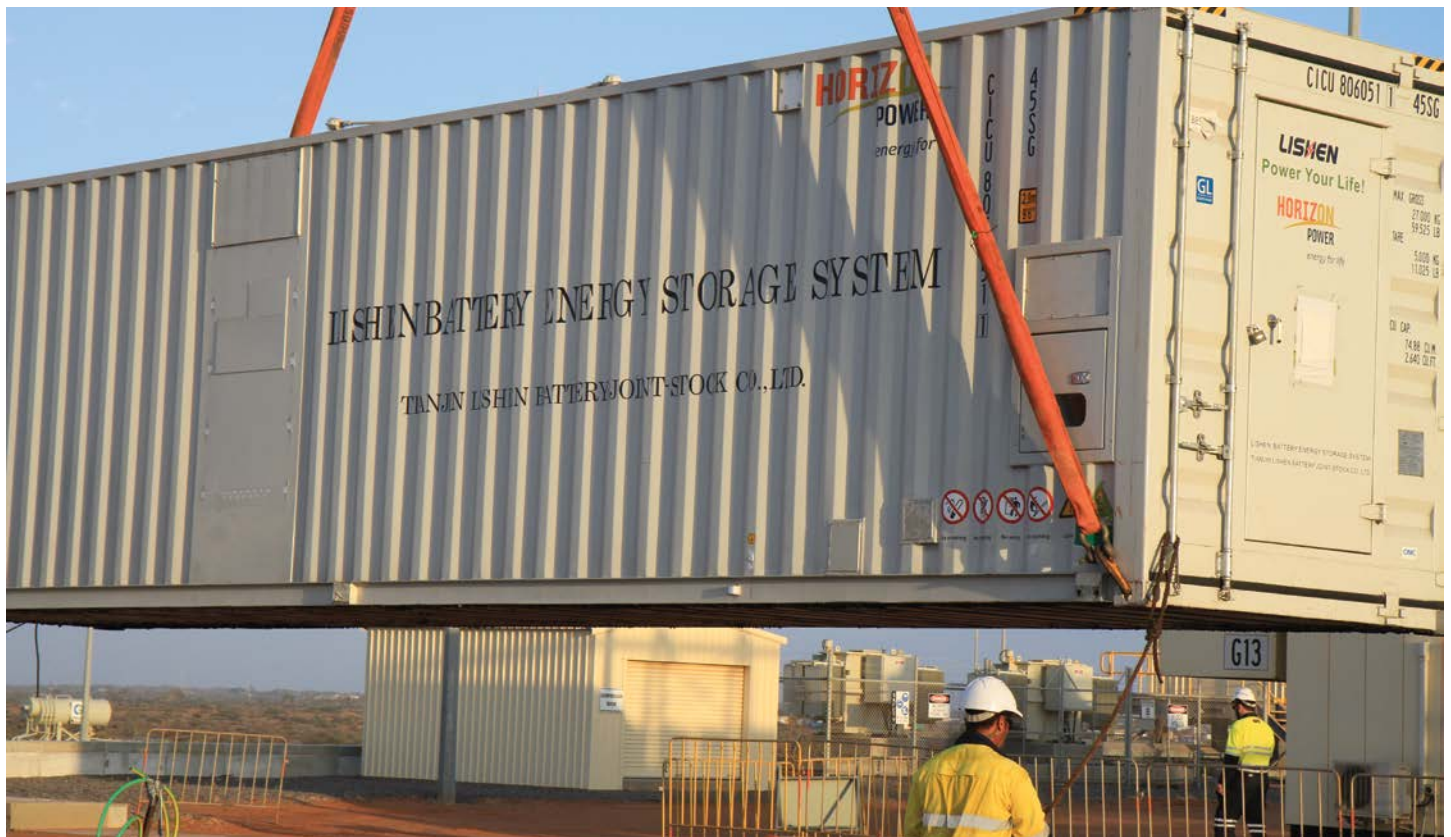


Power Ahead pilot complete



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On the horizon



Cutting-edge battery trial is underway

The town of Carnarvon has made Western Australian history by having the power station supported with energy provided by utility scale batteries which are being commissioned for a cutting-edge trial being run by Horizon Power.

The testing and commissioning process for the two batteries, which will produce up to two megawatts of power for an hour – or less power for a longer period of time – is taking place over a period of weeks with an expectation the batteries will be fully

operational as part of the Mungullah Power Station in May.

A team that peaked at more than 20 employees from Lishen, Horizon Power, GHD, Contract Power, Future Power and Calibre have been undertaking a series of tests with the most important in the wee hours of the morning on 27 March. It was then, when the battery was connected to the power station, that our team deliberately shut down one of the gas generators and the battery

successfully kicked in to provide power to the town.

The two 1000 kilowatt batteries, supplied by Chinese company Tianjin Lishen Battery Joint-Stock Company Limited (Lishen), are housed in two 40 foot containers and will be used to store energy produced by the station with the primary function of providing spinning reserve support. Four inverters that convert the DC battery power into AC power to be supplied to the power station are housed in a 20 foot container.

Power Ahead, it's a wrap!

Thank you to everyone who participated in the *Power Ahead* research pilot!

More than 400 Port Hedland residents and businesses participated in the pilot, helping us test and develop a different way of managing electricity usage and bills – similar to a mobile phone plan.

We challenged participants to keep their electricity use within their peak allowance (set number of units per hour), during the 2016/17 summer peak between 1 pm and 8 pm, and offered them a financial incentive to stay under this allowance.

A total of 332 residents and 60 businesses met this challenge head-on, earning themselves bill credits between \$100 and \$3,200.

Most participants were able to make changes to how and when they used electricity and shift their electricity use off-peak, reducing their peak electricity use by over 20 per cent.

Horizon Power will develop and present a new pricing product, based on the research findings, to the State Government to help inform policy decisions about price reform.

The *Power Ahead* Team would like to thank the pilot participants, the community of Port Hedland and pilot research supporters who worked collaboratively with us throughout the pilot.



Standalone power expansion

The iconic Fitzgerald National Park, west of Hopetoun, will soon be powered by renewable energy as Horizon Power expands its standalone power systems (SPS) to regional and remote customers across Western Australia.

The park will receive a state-of-the-art SPS consisting of 10 kilowatts of solar panels, 25 kilowatt hours of battery storage and 15 kVA of back-up diesel generation, which will provide power to the rangers' office and workshop inside the park entrance.

Horizon Power led the way in WA with this renewable technology solution when it developed an emergency response for Esperance customers impacted by the 2015 bushfires.

Horizon Power is now working with other customers to remove poles and wires where this will provide a more efficient and cost-effective grid, including in the north of our State.

While a traditional grid connection remains critical for most customers over the coming decades, it is becoming more viable to replace poles and wires at the remote fringes of our microgrids.

Horizon Power General Manager Consumer Energy Mark Paterson said the new SPS will replace four kilometres of powerline, some of which crosses over the Culham Inlet at the National Park, making it difficult to access for maintenance purposes. It will also replace 21 power poles and 20 bays of powerline which would have required replacement this year.

Battery trial

(continued from front page)

At present, in order to ensure reliable power supplies, Horizon Power has a spare generator running in the event of a fault with an operational generator or a big spike in demand. For example, if we need three generators to meet demand, we run four generators. The extra generator is called spinning reserve.

Horizon Power will use the battery instead of spinning reserve which will result in a reduction in fuel and lower maintenance costs by hundreds of thousands of dollars a year.

As well as testing spinning reserve, we will test other operating modes over a period of 12 months following commissioning, including peak shifting and simulation of hosting capacity. This work is expected to give us more information about how we can better support renewable energy installed in Carnarvon with this additional energy storage, however the battery installation will not automatically result in more renewable energy hosting capacity.

The Carnarvon Energy Storage Trial project is one of several we are undertaking to achieve our vision of increasing the uptake of distributed energy on our microgrids. Carnarvon is one of our 33 isolated systems or microgrids which will be able to incorporate higher levels of renewables once the learnings from these trials are available.

As has been widely reported, the South Australian Government is considering utility-scale battery storage to provide additional security to its network after state-wide outages experienced there last summer. The causes of the outages in South Australia are complex though some of the commentary has pointed to high levels of renewable energy penetration as being part of the problem. Horizon Power strongly supports renewable energy and believes when managed and integrated properly, it provides more security.

Horizon Power ensures the penetration of renewable energy in the towns we supply does not pose reliability issues. This is achieved by the careful management of renewable energy and ensuring we don't incorporate too much too fast. Horizon Power has enough base load capacity in all of its towns to meet demand at all times and will continue to trial new technologies such as large batteries to reduce operating costs and, in time, to increase the amount of rooftop solar that can be installed on microgrids.

Stay safe around electrical assets

During the past 12 months, Horizon Power recorded more than 70 incidents in which a third party has damaged assets. This includes vehicles driving into mini pillars or underground cables damaged through digging.

In a recent incident, copper earth wires were stolen from 100 power poles in Carnarvon. Local police apprehended the thieves and the wires were returned.

To help educate the community about the danger of electricity and safety around

electrical assets, Horizon Power recently launched its *Be Aware of Electricity* campaign.

Gascoyne/Mid West Retail Manager Craig Deetlefs said the campaign's goal is to promote key messages relating to electrical safety at home and at work while using heavy or oversized equipment.

"Any damage to electrical infrastructure has the potential to cause electric shock or electrocution," Mr Deetlefs said, confirming that all of the pole earths have been replaced and there was no danger to the public.



Police constables Proctor and Hazel with the wire they recovered for Horizon Power.

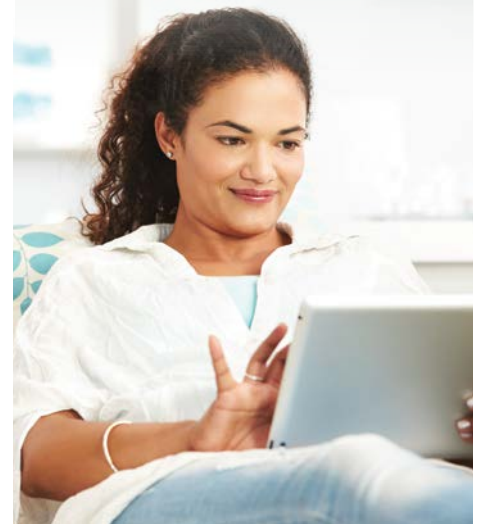
Letting you know about planned power outages

We will soon be introducing electronic notifications for planned power outages and want to work with you to get your updated contact details so we can ensure you get the information you need.

We intend to send notifications directly to your email or mobile phone, enabling us to communicate with you in a more efficient, effective and timely manner.

To receive electronic notifications simply register online for *My Account* or contact our customer call centre on 1800 267 926 to update your details.

If you would like further information, contact your local Horizon Power office.



We're committed to keeping you connected

As your local energy partner, Horizon Power is committed to providing you with a safe and reliable power supply.

If for any reason your power supply is interrupted, and the interruption is caused by us, you may be able to make a claim for compensation.

The payments you may be entitled to receive are listed here or jump online for more information at www.horizonpower.com.au/for-home/existing-customers/make-a-claim/

If you require further information please contact us on **1800 267 926** (residential) or **1800 737 036** (business).

Extended Outage Payment Scheme	\$80 if your power supply is interrupted continuously for more than 12 hours from the time it is reported to Horizon Power on 13 23 51
Failure to provide adequate notification of a planned power interruption	\$20 if we've provided you less than three days' notice of a planned outage (via letter, SMS, notification card, phone call, newspaper or radio advertising)
Disconnection in error	Priority reconnection and \$100 credit to your Horizon Power account for each day you are disconnected
Reconnection outside of timeframe specified in the Customer Charter	\$60 credit to your Horizon Power account for each day the reconnection is late (maximum of \$300)
Claim for loss or damage to property and belongings	Each claim is assessed individually
Failure to acknowledge a query or complaint	One off \$20 if we fail to acknowledge a complaint within 10 business days or respond within 20 business days to a query or complaint.

In the community

West Kimberley

Kyle Andrews Cable Beach Walk

14 May

Horizon Power will again join with families connected to the children's ward of Princess Margaret Hospital at the beautiful Cable Beach. Now in its 14th year, the event is a community walk from Gantheaume Point to the Broome Surf Life Saving Club involving families, prams, dogs, camels and lots of enjoyment following the camp in Broome.

West Pilbara

Karratha Little Athletics

We are proud to continue to be the main sponsor of Karratha Little Athletics for the 2017 season. There are 138 competitors between the ages of six to 17, who train in various events to compete against their own personal best scores. Training and competitions are held on Friday nights starting May 12, where parents come down to cheer on the athletes and everyone enjoys a sausage sizzle. Registrations are closed for the year, however for more information and to register for 2018, please email info@karrathalittleathletics.org or visit the WA Little Athletics Facebook page.

East Pilbara

Mother's Day Classic Walk and Run

14 May

The Mother's Day Classic is a national fun run and walk that raises funds for breast cancer research, held annually on Mother's Day.

Horizon Power is proud to support the Town of Port Hedland in hosting the regional event for the 8th year running.

To register, or for more information, please visit www.porthedland.wa.gov.au



Gascoyne Mid West

2017 Denham Open

24-25 June

Held at the Boolbardi Country Club, the 2017 Denham Open Golf weekend is a 36 hole stableford event for men and women. This has proven to be a well-supported and fun weekend for the past 50 years and continues to draw a good field of golfers who enjoy the game and the great hospitality. Non-golfers are welcome to join us for the Saturday night dinner and presentation lunch on Sunday.

Contact Jill Deschamp for further information on **9948 3224** or email jilldeschamp@westnet.com.au



Shark Bay Fishing Fiesta

12-19 May

An annual week-long festival held on the Denham Foreshore which encourages community participation, wellbeing and educates and promotes responsible fishing for the future. The event incorporates activities for all ages such as kid's day, games and crafts, fishing competitions, nightly entertainment, auctions, fireworks, quiz nights, high teas and so much more. Contact the Shark Bay Fishing Club for more information on **0427 272 560**.

Shooting Stars!

Horizon Power is proud to announce a three year community partnership with *Shooting Stars* under our Sustainable Partnership Program.

Brand and Communications Manager, Andrew Riches, said Horizon Power was committed to developing the regions it serviced and an investment in people and the community

Shooting Stars aims to use netball as the vehicle to encourage greater engagement and attendance at school of young Aboriginal girls living in WA's remote communities and regional towns. Its successful pilot program was delivered in Halls Creek in 2015 and it has now expanded to Derby, Carnarvon, Meekatharra and Wiluna.

"Our support will enable *Shooting Stars* to roll out a new organisational development strategy across the Halls Creek, Derby, Carnarvon, Wiluna and Meekatharra sites. The investment will also support the continued development and implementation of *Shooting Stars*' world first longitudinal study, adopting an Indigenous research method called Yarning Circles," Mr Riches said.

Shooting Stars Executive Officer Fran Haintz praised Horizon Power for its pledge to the program, adding: "It's so encouraging to see Horizon Power recognise an opportunity of this nature to contribute to a framework that is empowering young indigenous women in the regional communities of Western Australia."

To learn more about the *Shooting Stars* program, including information about making philanthropic and charitable donations, visit www.shootingstars.com.au



Contact us

Account and general enquiries

Residential account enquiries

1800 267 926

Business account enquiries

1800 737 036

Emergency or supply interruptions

13 23 51

Faulty streetlights and poles

1800 264 914

TTY

1800 461 499



Interpreter service



13 14 50

enquiries@horizonpower-reply.com.au

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Gascoyne and Mid West

Corner Iles Road & Robinson Street

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Karratha

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Kununurra

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