

Attachment 2.15

Consumer Infographics

January 2015



Ausgrid revised regulatory proposal attachment



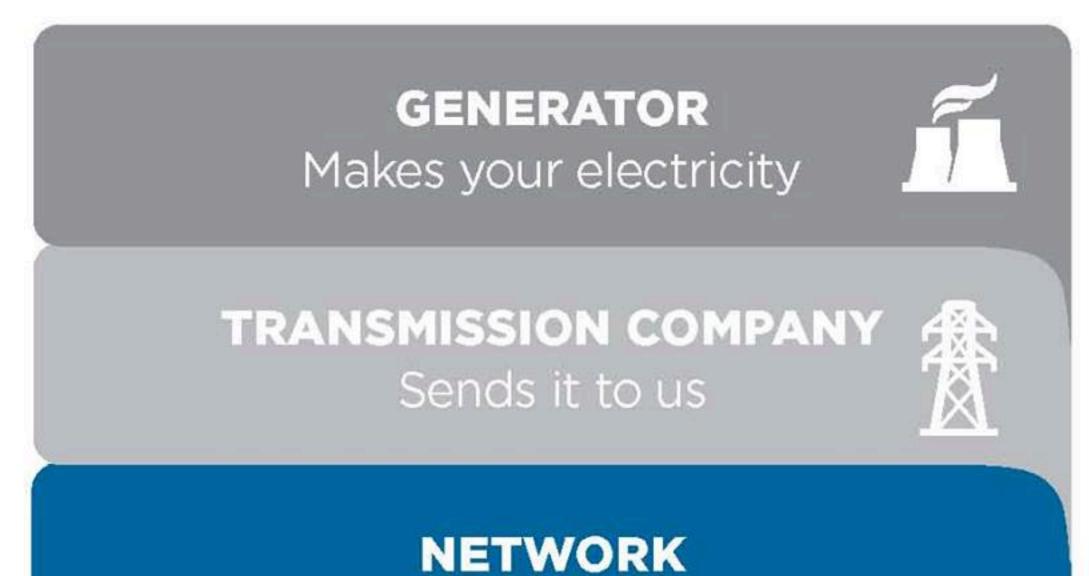
2014

Consumer infographics

Ausgrid worked with Endeavour Energy and Essential Energy to provide information about our future plans for the electricity network to share with consumers in an accessible way. The following infographics were shared on our joint Facebook page, presenting key information in an easy to understand, visual format. These graphics visually presented facts and figures in relation to key areas that were relevant to our regulatory submissions.

Торіс	Description		
What's an electricity network?	Designed to highlight the role of an electricity distributor and how it differs from Retailers.		
Blackouts	Gave facts about reliability and the common causes of unplanned outages.		
Streetlights	Facts and statistics about streetlights in NSW.		
Electricity bills	Showed the components of the average yearly bill for homes in NSW.		
Network electricity prices	A summary of network electricity prices over the past five years.		
Ways of charging for electricity	A description of different types of tariffs.		
Household electricity meters	Compared the three main types of electricity meters at NSW homes.		
Solar	Provided a range of facts and statistics about solar.		
Prices and spending for 2014-15	A summary of the 2014-15 network electricity prices.		
Managing demand	The different ways that peak demand is managed.		
Customer contact	The various reasons why customers contact their electricity distributor.		
Public safety	Public safety statistics from 2012-13.		

How our network gets electricity to your place



We get it to your house

And we also:

- maintain the poles, wires and substations
- fix blackouts and keep the supply safe
- build and replace substations
- look after streetlights for councils



send meter readings to retailers



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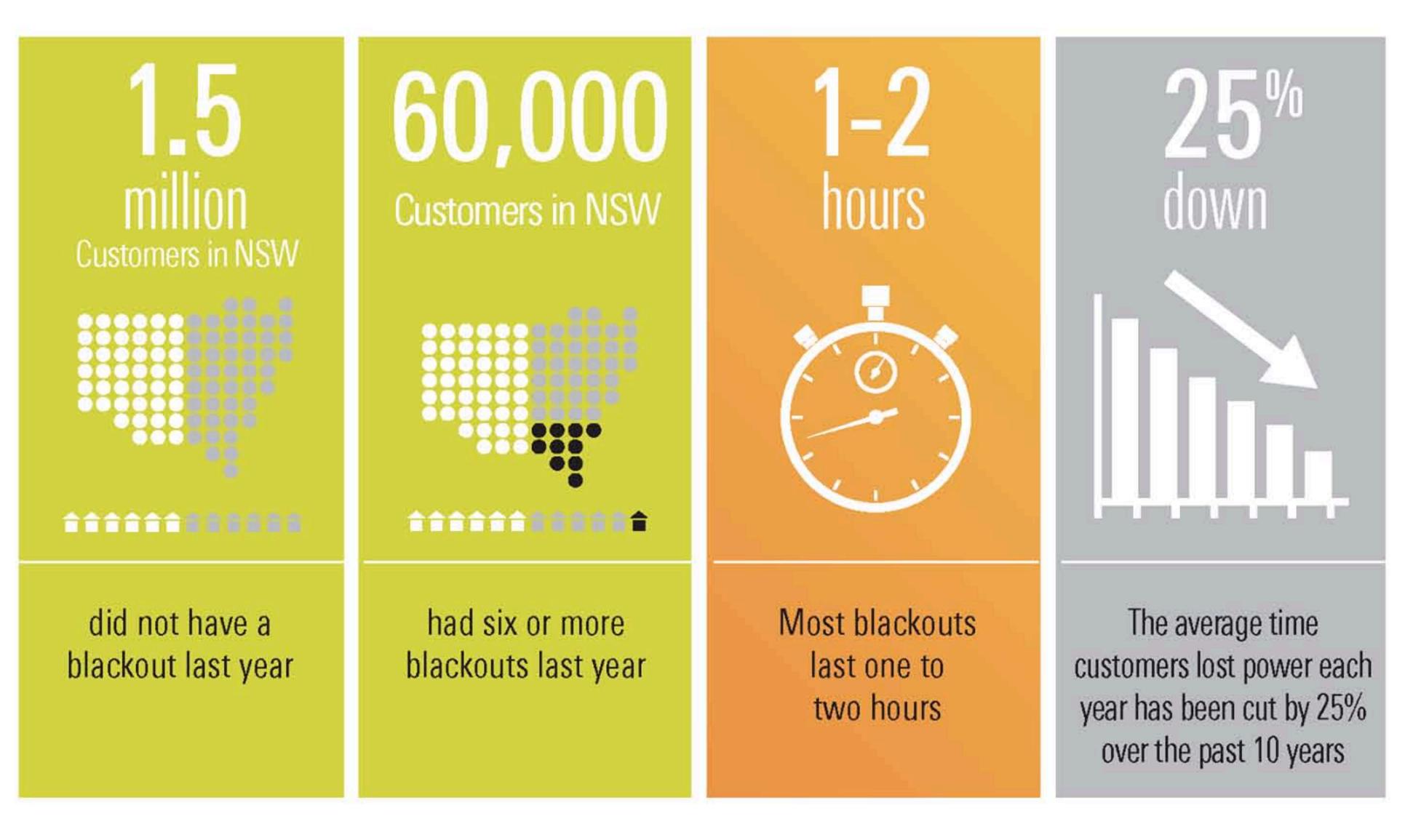
YOUR HOME



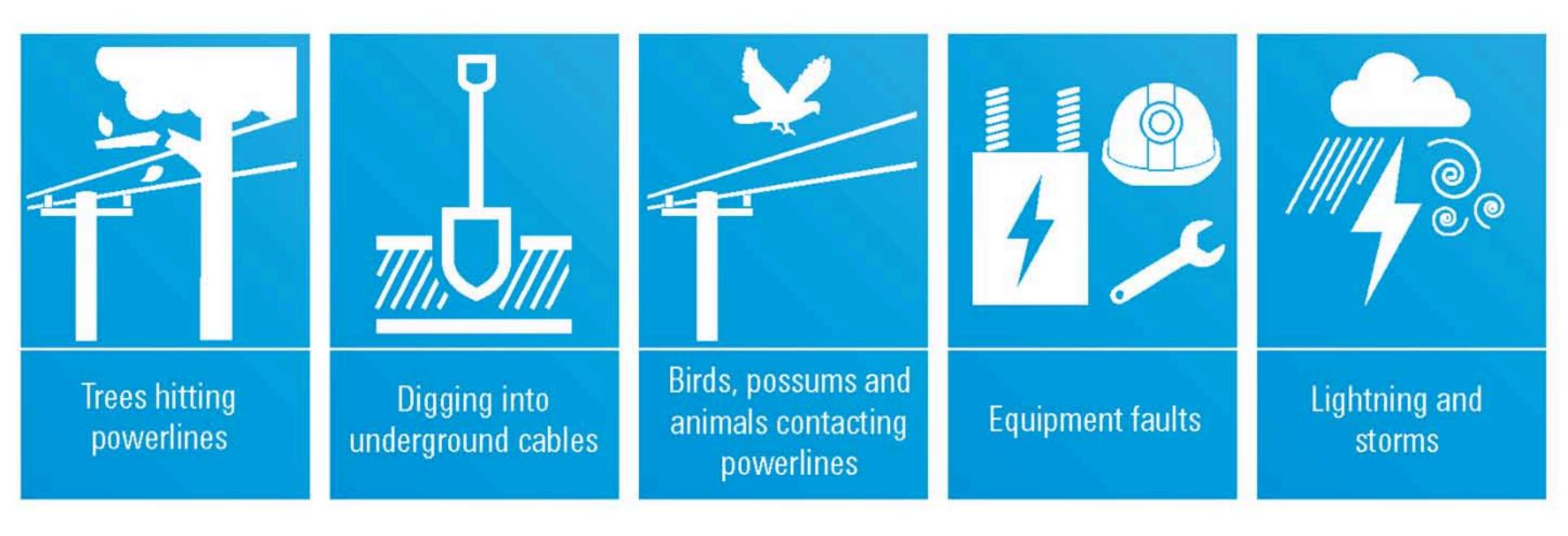
Ausgrid, Endeavour Energy and Essential

Energy distribute electricity throughout NSW





TOP CAUSES OF BLACKOUTS:



STREETLIGHTS





180,000energy efficient streetlights

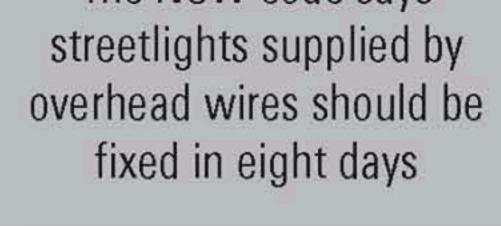


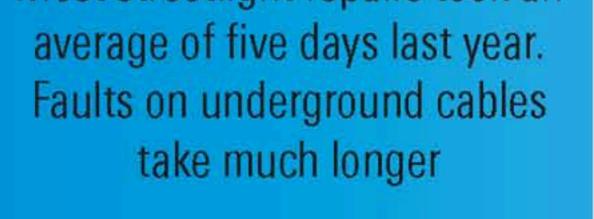
64,000repairs

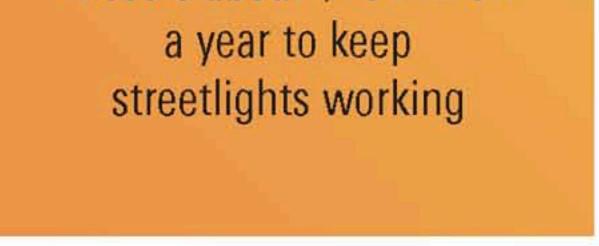
The NSW code says

Most streetlight repairs took an

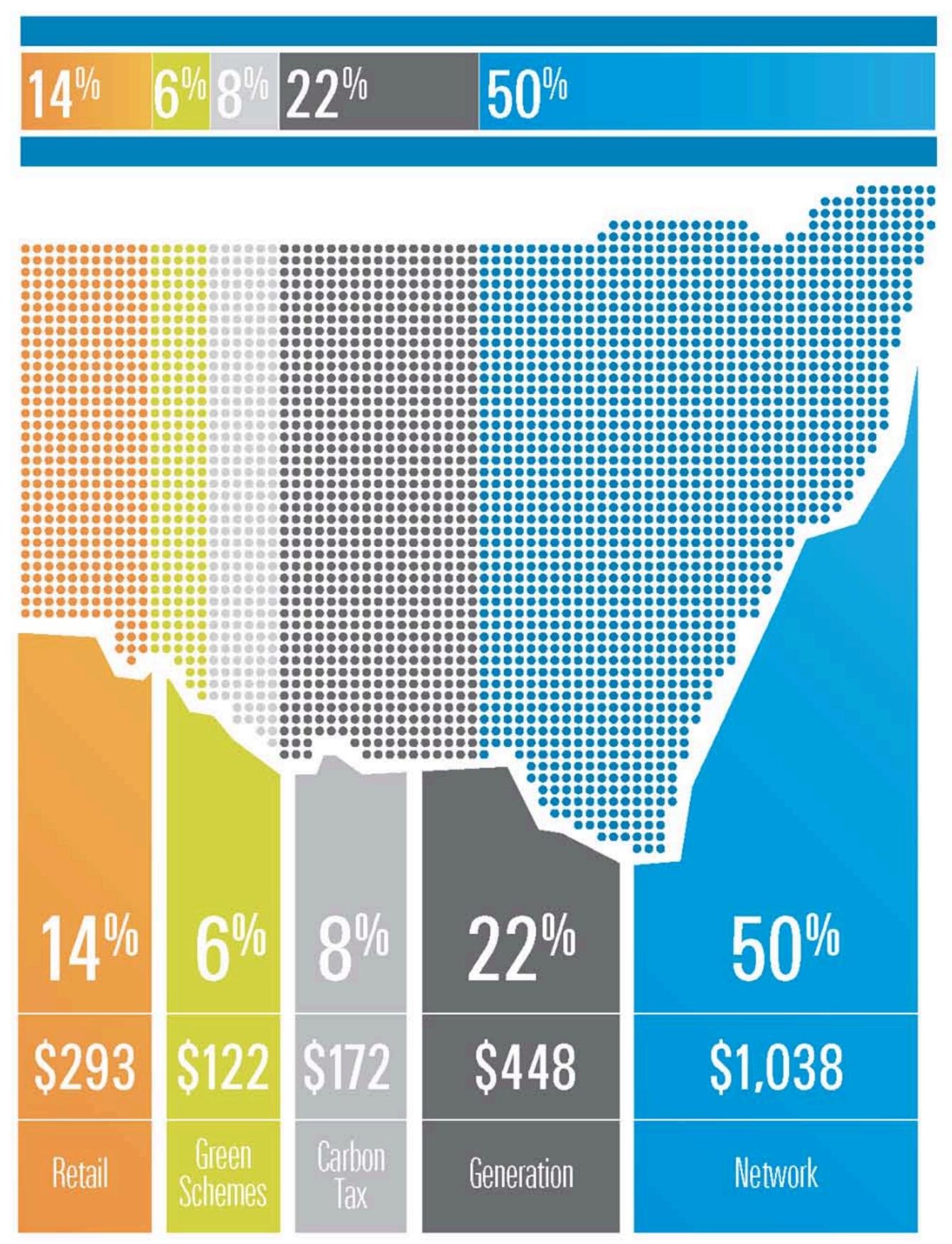
It costs about \$70 million







AVERAGE YEARLY BILL FOR NSW HOMES



SAME TWORK ELECTRICITY PRICES







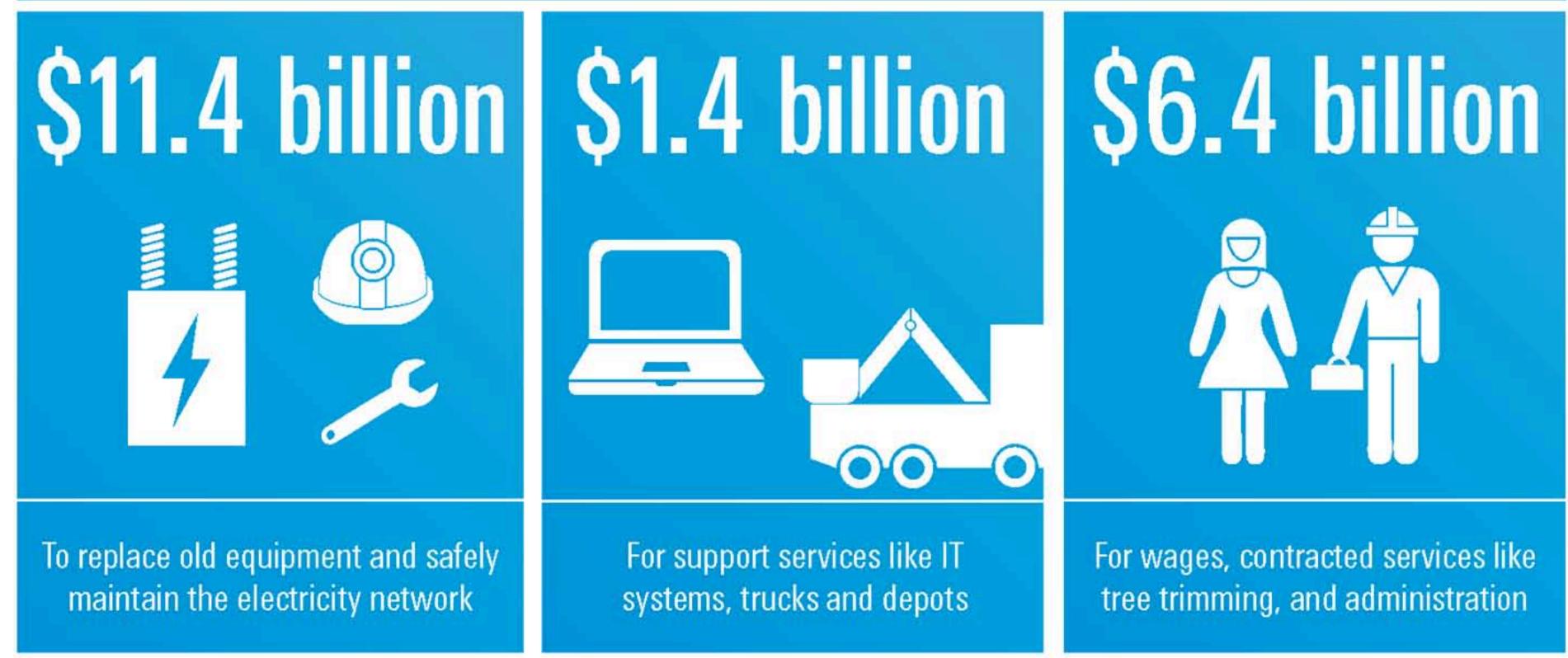
Homes now pay \$595 more to run the electricity network compared to 5 years ago

Businesses now pay \$2,428 more to run the electricity network compared to 5 years ago

Average distribution network prices for homes decreased by \$24 in 2013

Average distribution network prices for businesses decreased by \$117 in 2013

WHAT NETWORK PRICES HAVE PAID FOR OVER THE PAST 5 YEARS







Inclining block Declining block Flat tariff Fla



Different rates are charged for electricity use. The first part of electricity use is cheaper than all usage after it.

This the most common tariff for households in NSW.

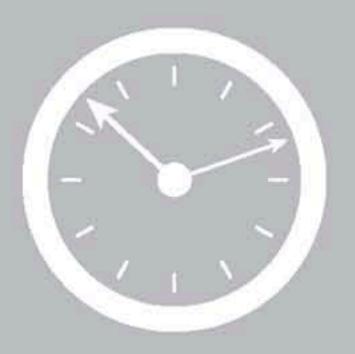


The first part of electricity use is more expensive than all usage after it.



All electricity use is charged at the one price. Many homes in regional NSW are on this tariff.

Time-based pricing



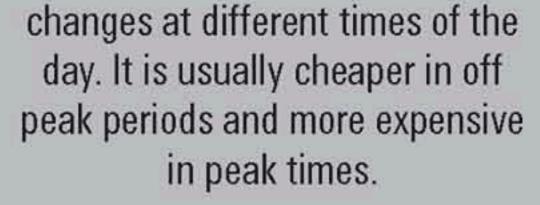
The rate for electricity use

Capacity or demand charge

A charge based on the maximum amount of electricity used during a period of time.



A cheaper rate is charged to allow networks to turn off appliances in your home at certain times, like off peak hot water.

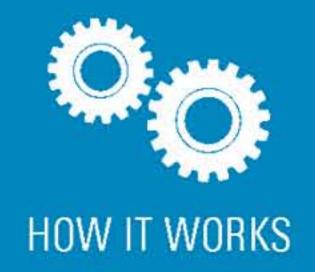


Usually applies to large businesses and covers costs for networks to meet the businesses' peak use.

HOUSEHOLD E ELECTRICITY METERS







Meter tracks total power use. Also called an accumulation meter. Meter records power use and when it is used, which allows for timebased billing.

Meter records power use every 30 minutes and can communicate remotely, which allows for other customer services.

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HOW MANY IN NSW

Meter reader records one reading from meter each quarter

4.6 million

\$15 - \$35

Meter reader records up to four readings or downloads data with a probe each quarter

890,000

\$40 - \$85

Meter sends data over a secure communications network as needed

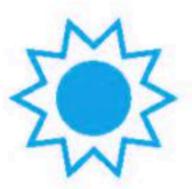
30,000 (mostly in trials)

\$100 - \$200

APPROX METER COST*









FACTSSSOLAR

250,000 solar systems







900 gigawatt hours

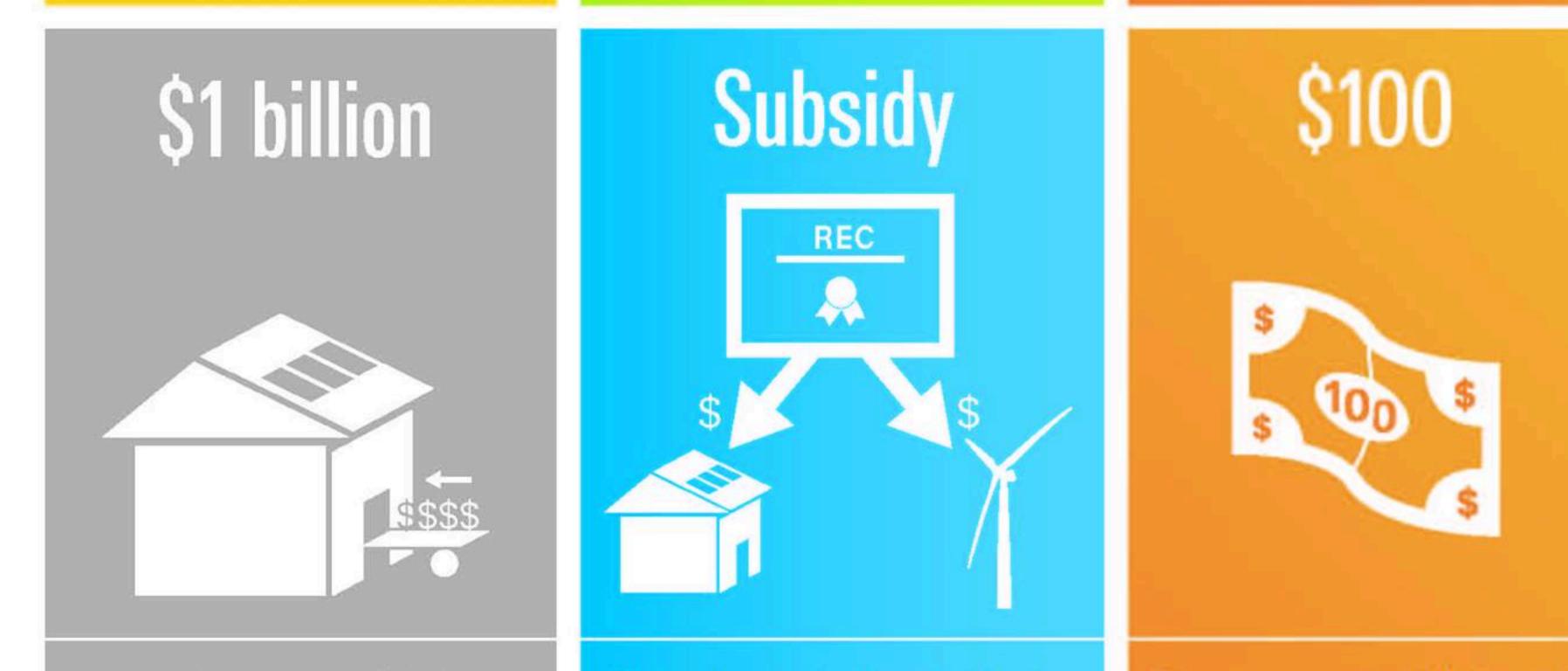


There are more than 250,000 homes and businesses in NSW with solar Photovoltaic (PV) systems connected to the grid.

The number of solar panels is estimated to have increased by about 25 times over the past four years.



They can potentially produce up to 900 gigawatt hours of energy a year - about 1.5% of total NSW electricity use.

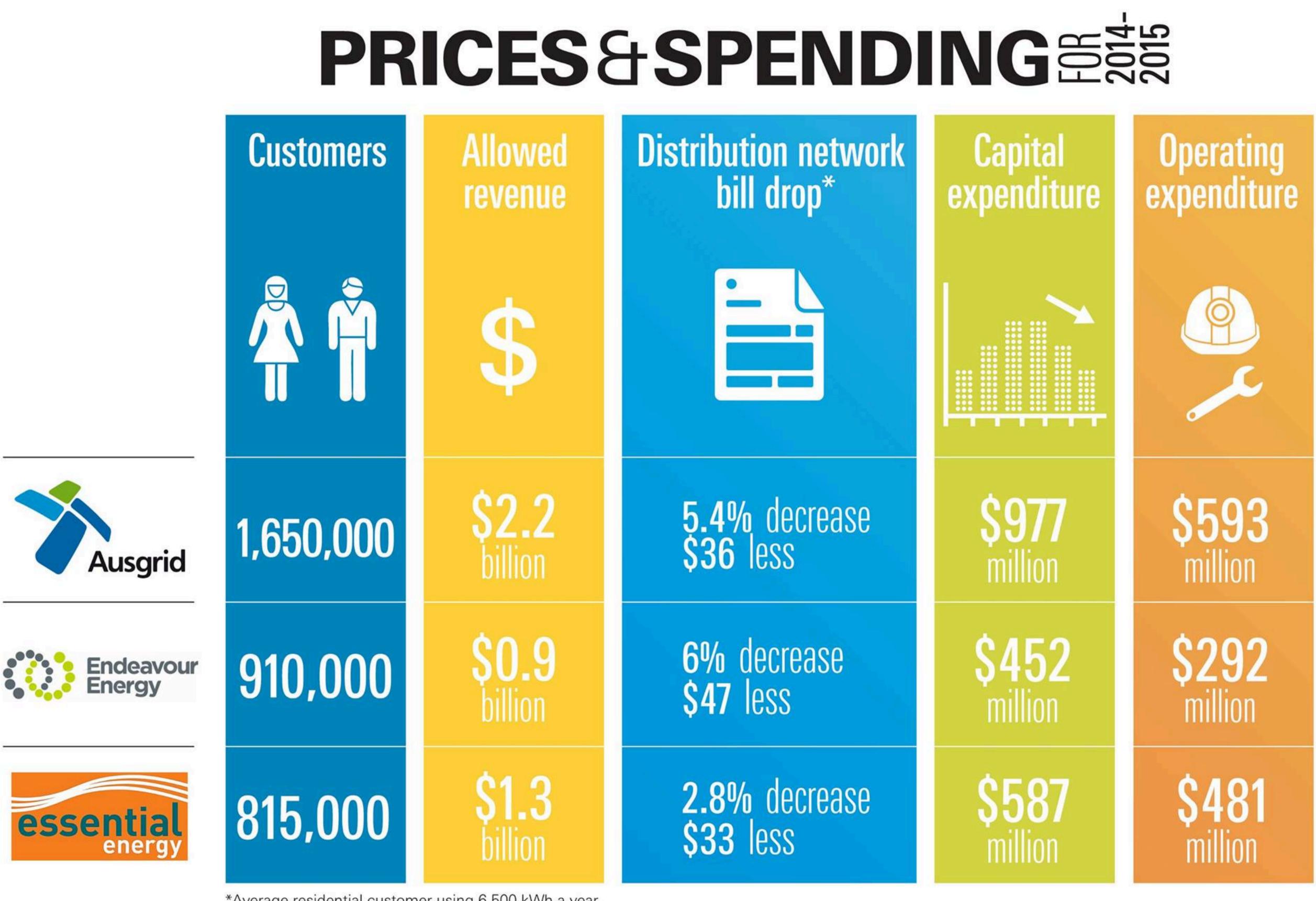


Solar PV customers eligible for the NSW Solar Bonus Scheme will be paid over \$1 billion by December 2016 for the energy they export. They also received a subsidy via Renewable Energy certificates to help meet Australia's Renewable

Energy Target.

These payments add about \$100 a year to a typical household's

electricity costs.



*Average residential customer using 6,500 kWh a year

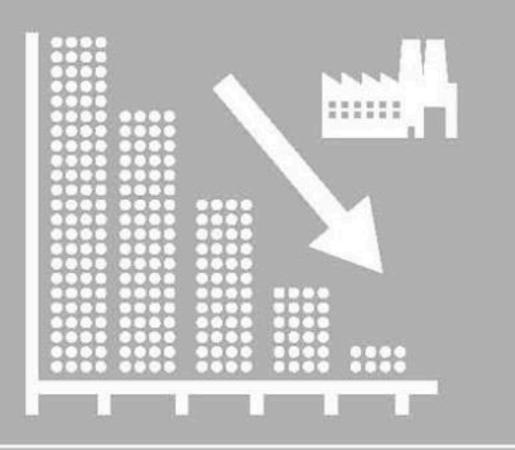




More than 1.3 million NSW homes have cheaper off peak prices for their electric hot water system. Making appliances that operate during peak times more efficiently can help reduce peak demand.

Embedded generation, like solar PV, and battery storage can sometimes help supply power at peak times.

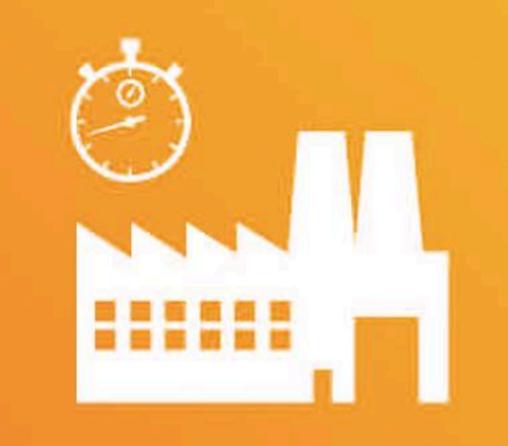
Power factor correction



This improves the efficiency



Network tariffs can be structured to provide a price signal for customers to shift their electricity use away from peak times. Voluntary load reduction



Incentive payments are available for customers to reduce their

of electricity supply to businesses with large electrical equipment, like electric motors.

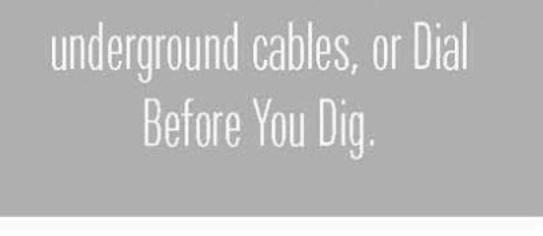
electricity use at peak times.



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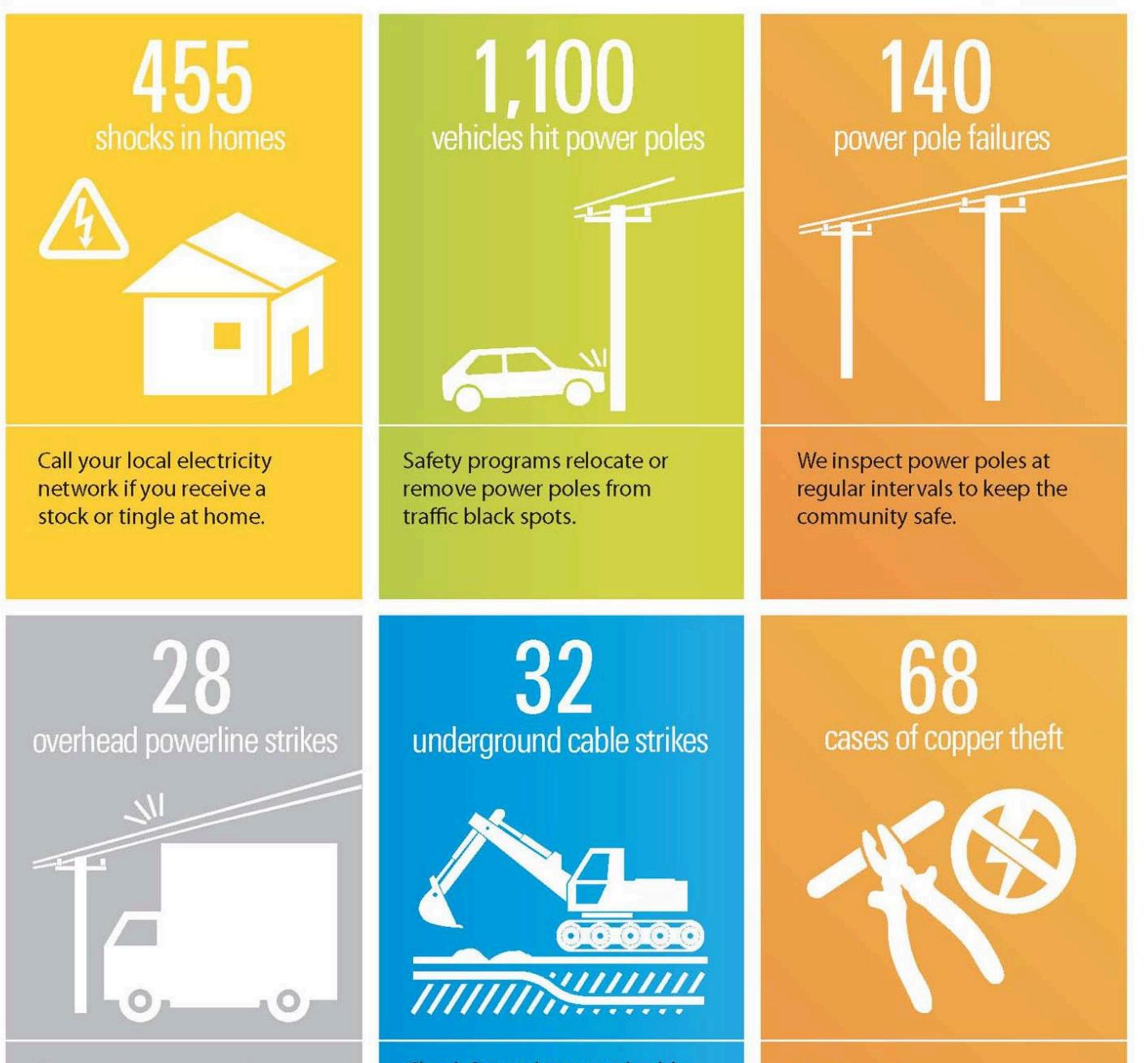
To find out about maintenance

To report problems with electric





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Drivers should always know

Check for underground cables before excavating by calling

Call Crime Stoppers on

