Distributed Energy Resources

Mekong-Australia Policy Dialogue

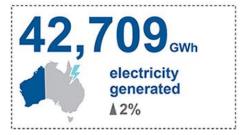
15 December 2020

Presented by Kate Ryan Energy Policy WA

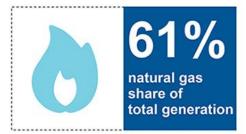
Working together for a brighter energy future

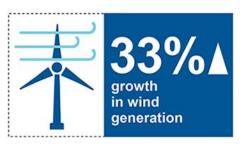
Snapshot – electricity in Western Australia

In 2019









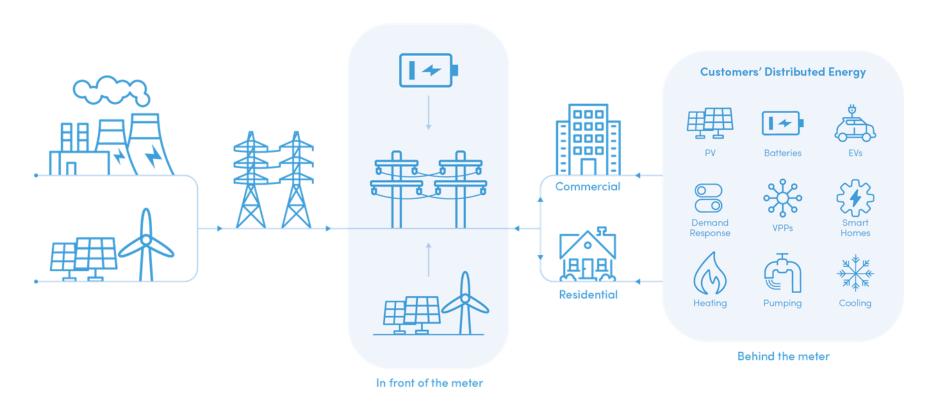
Electrically isolated, low customer density

- One large grid the South West Interconnected System – with around 1.2 million customers
- 3 regional power systems and 38 microgrids across the state with around 48,000 customers
- Large number of self-sufficient mining and resource operations

Mix of Government and private sector ownership

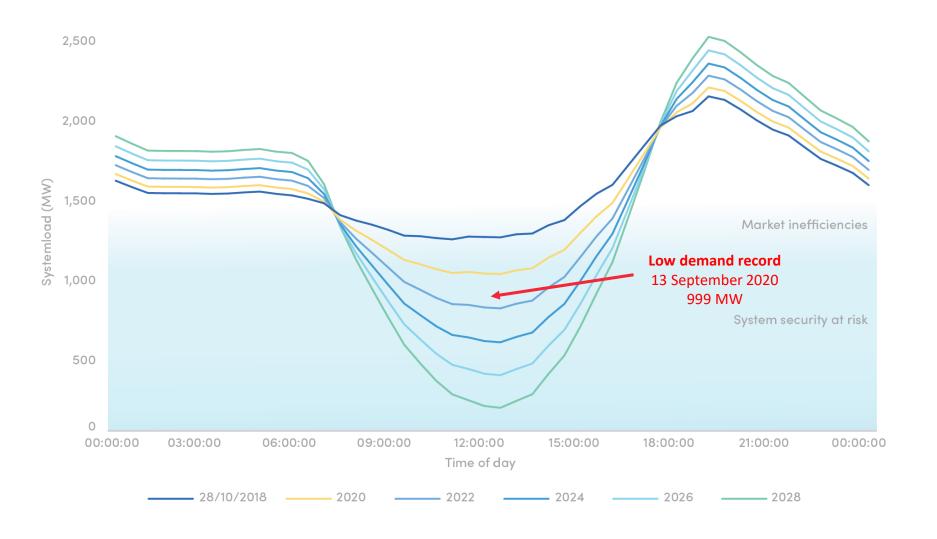
Among the world's best solar and wind energy resources

The energy sector is undergoing unprecedented transformation



This presents challenges, but we are creating our own opportunities

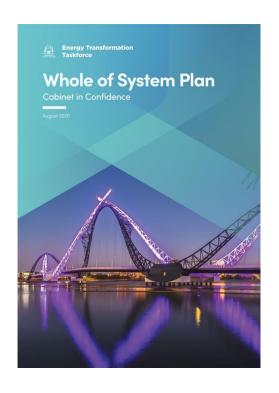
Western Australia's duck curve

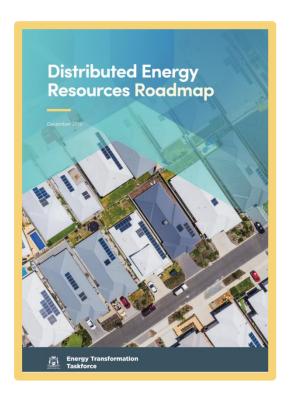


Energy Transformation Strategy

The WA Government's Energy Transformation Strategy

A two-year work program to enable us to embrace renewables and keep the lights on in the South West Interconnected System







DER Roadmap

Vision

A future where DER is integral to a safe, reliable and efficient electricity system, and where the full capabilities of DER can provide benefits and value to all customers.

1. A safe and reliable electricity system where customers can continue to connect DER and where DER supports the system in an efficient way.

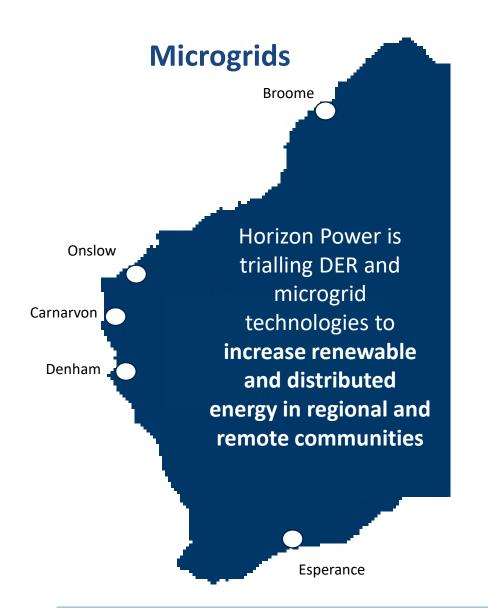
2. DER capability can offer value throughout the electricity supply chain.

3. DER benefits are flowing to all customers, both with and without DFR.

DER Roadmap



Microgrids and stand-alone power systems



Stand-alone power systems

More cost-effective, safe and reliable supply for many consumers

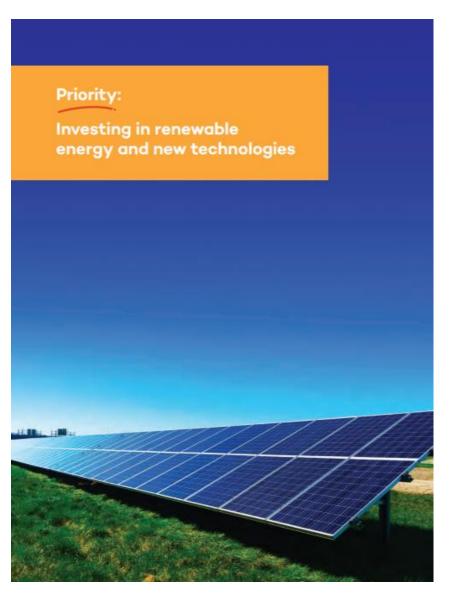
Over 6,000 SPS over next 30 years







Supporting Western Australia's COVID recovery



\$66.3 million renewable energy technologies boost

- 50 additional SPS
- nine Battery Energy Storage
 Systems in nine regional
 communities
- infrastructure upgrades in remote Aboriginal communities
- schools virtual power plant
- solar energy for social housing
- solar panels at up to 60 bus and rail stations
- additional funding available through the Clean Energy Futures Fund

Thank you

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Working together for a brighter energy future