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

Low demand record
13 September 2020
999 MW
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.

- Wholesale Electricity Market Redesign
  - Market start in 2022
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 DER.
DER Roadmap

36 actions across four themes to achieve the Roadmap vision
Microgrids and stand-alone power systems

Microgrids

Horizon Power is trialling DER and microgrid technologies to increase renewable and distributed energy in regional and remote communities.

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