



Government of **Western Australia**
Department of **Treasury**

A brighter energy future

Hon Bill Johnston MLA
Minister for Energy

6 March 2019



THE OPPORTUNITY

- Excellent wind and solar resources, secure and affordable gas supply
- Rooftop solar > 1,000 MW of generation
- Technology is rapidly advancing:
 - cost-competitive renewables
 - Battery prices falling
 - Microgrids becoming workable
 - Electric vehicles on horizon
- Considered and well-planned connection of DER and renewables is essential to maintain system security – and lower emissions



VISION

To provide safe, secure, reliable, low-emission power to Western Australian households and businesses at the lowest sustainable cost, while allowing new technology to connect and give people more control over their electricity use.

OBJECTIVES



Maintain a secure and reliable electricity supply



Ensure affordable electricity for households and businesses



Reduce energy sector emissions

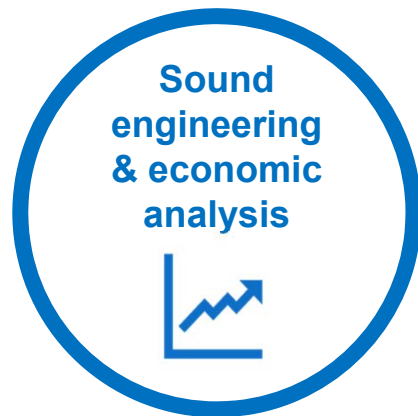


Transition workers in the Collie region affected by the move away from coal



Promote local jobs and growth

WHOLE OF SYSTEM PLANNING



Shared vision for our system and network in the south west

The Whole of System Plan will inform:

- future investment and regulatory decisions; and
- policy and market development.

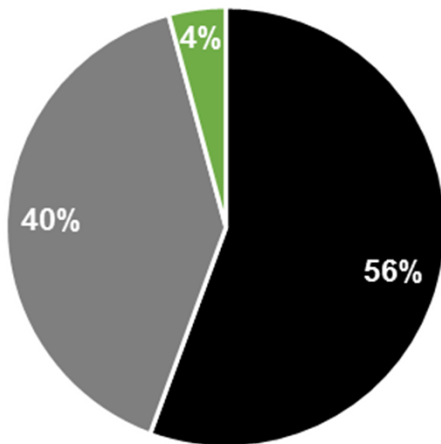
First plan to be produced by mid-2020

WHERE ARE WE HEADING?

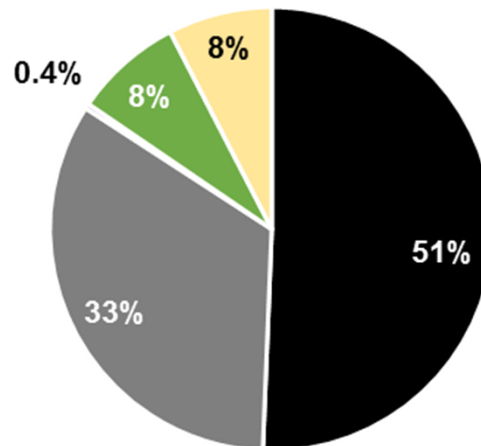
A power system characterised by growing levels of renewable and DER:

- Driven by technology, costs and customer preferences
- Emissions reduction policy actions will only accelerate the transition

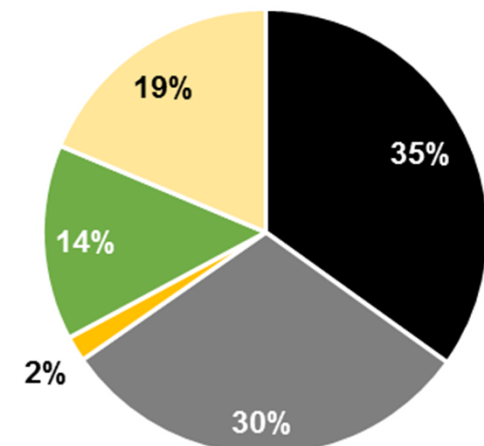
Market Start (2006-07)



Current mix (2018-19)



2030 mix
(Business as Usual)

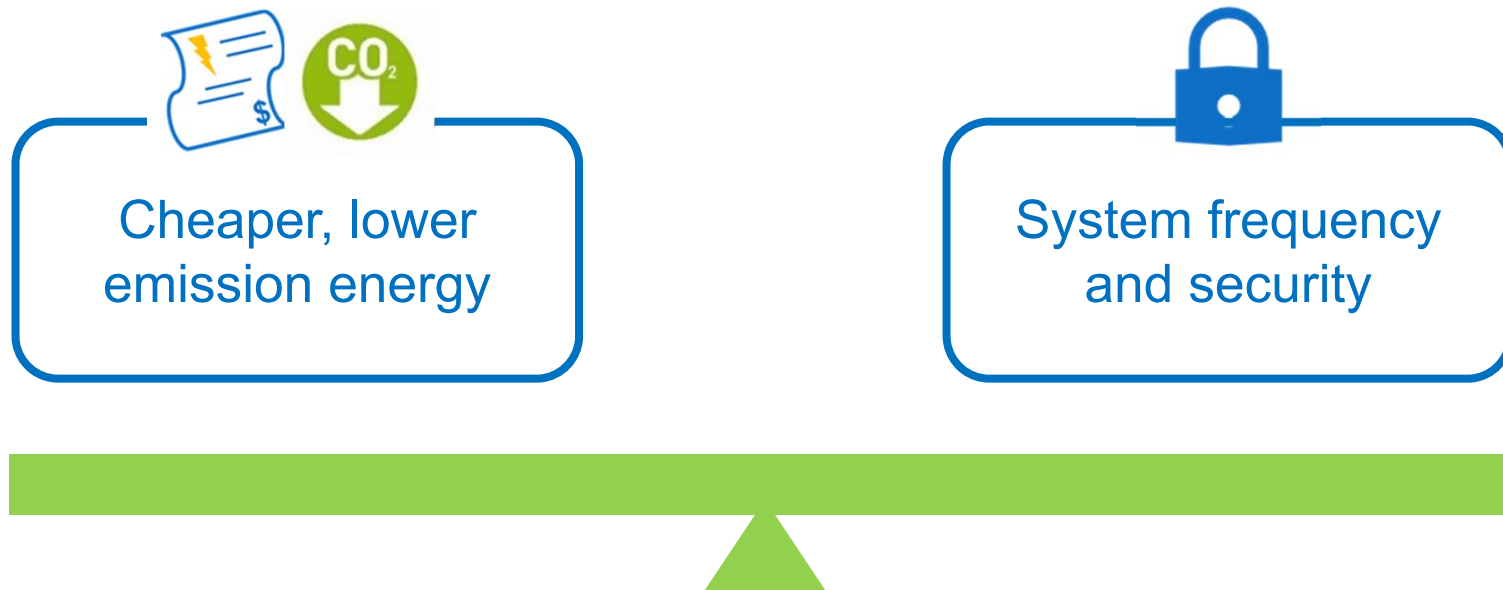


■ Coal ■ Gas ■ LS Solar ■ Wind ■ Rooftop Solar

Sources: Australian Energy Market Operator data and Public Utilities Office modelling

DER ROADMAP

Government working closely with AEMO, Western Power, Horizon Power, market participants and energy stakeholders to develop a **more targeted and strategic take-up of DER**



A BRIGHTER ENERGY FUTURE

- A lower carbon energy sector
- A sustainable and secure generation mix
- Coordinated SWIS development
- Fit-for-purpose technical standards and regulations
- Opportunity for regional growth
- Opportunity to lead renewable energy technology development
- Lowest sustainable energy costs for consumers



QUESTIONS?

