

The Energy Transition

Presenter

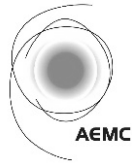
Alexei Watson - Senior Commercial Specialist



Energy ecosystem in transition



Energy Ministers



Australian Energy Market Commission



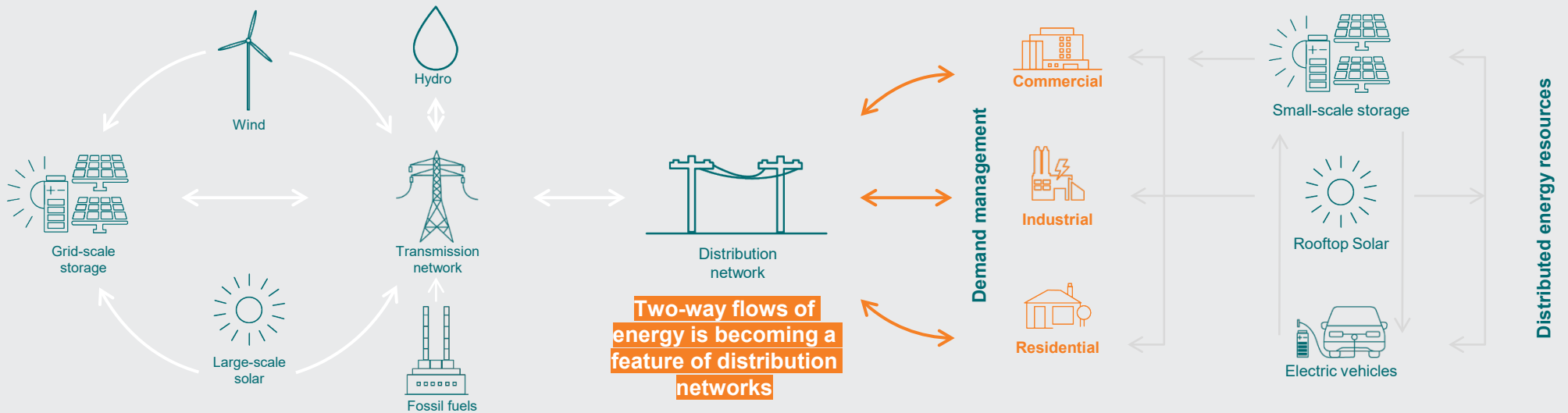
Australia Energy Market Operator



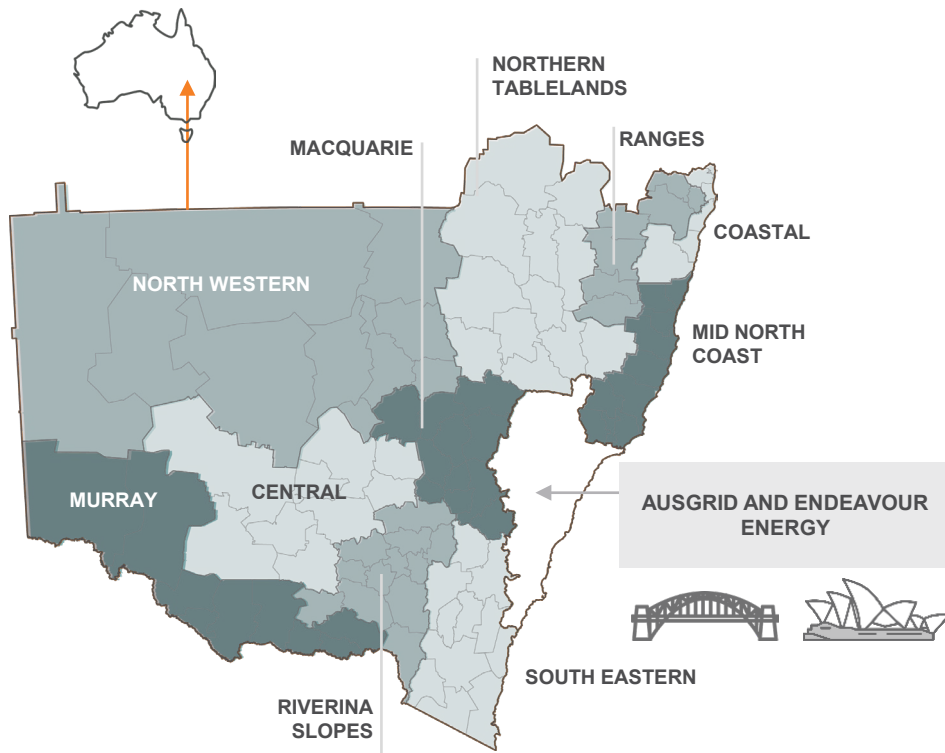
Australia Energy Regulator



Energy Advisory Panel



Essential Energy network footprint



>870,000
customers

737,000
square kilometres
(457,950 miles²)
of network covering 95% of
New South Wales
& parts of southern Queensland

1,470
Powerlines, Ten of these
are each longer than
1,000km
(621 miles)

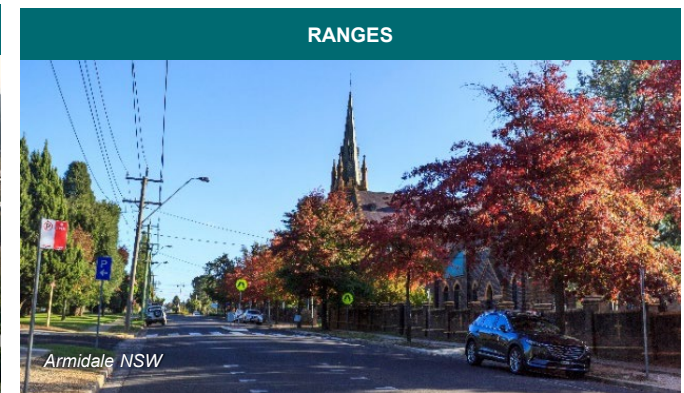
4.75
customers to fund
every 1km (0.62 miles)
of overhead powerlines.
Compared with Ausgrid with 43.7
& Endeavour with 33.9

36.8 years
Average age
of network assets

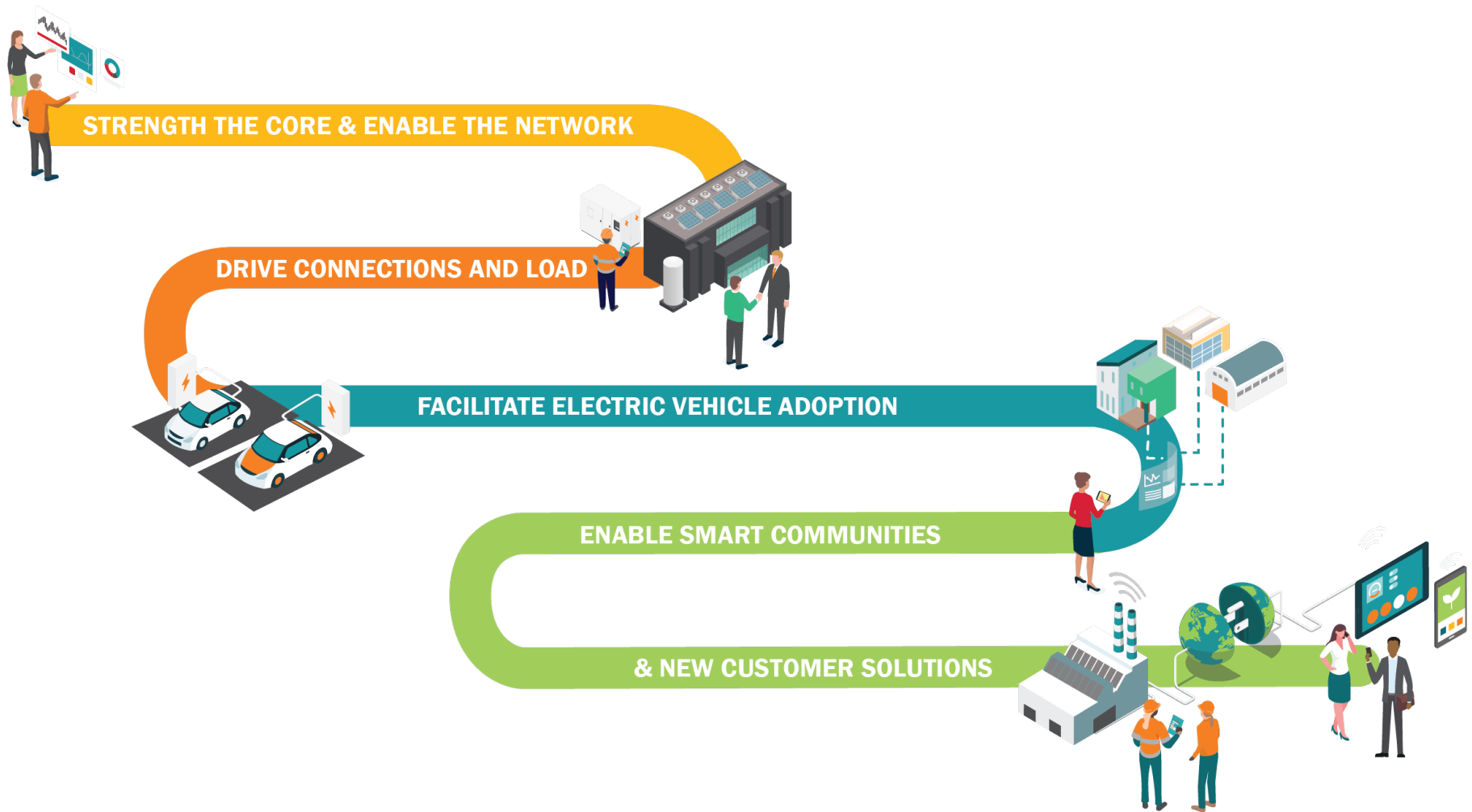
1,404,814
Power poles – which
Equates to 1.6 power poles
For every customer

364
Zone substations
and 139,303
distribution substations

183,099 km
(113,772 miles)
of overhead powerlines
- equating to driving around
Australia 13 times



Corporate Strategy



Large Scale Renewables, Rooftop Solar and storage

EXISTING LARGE SCALE RENEWABLES

1478.6MW

total combined generation capacity

32

sites > 5MW

Largest operational

Boco Rock Wind Farm
113.18 MW

Largest solar

Nevertire Solar Farm
105MW

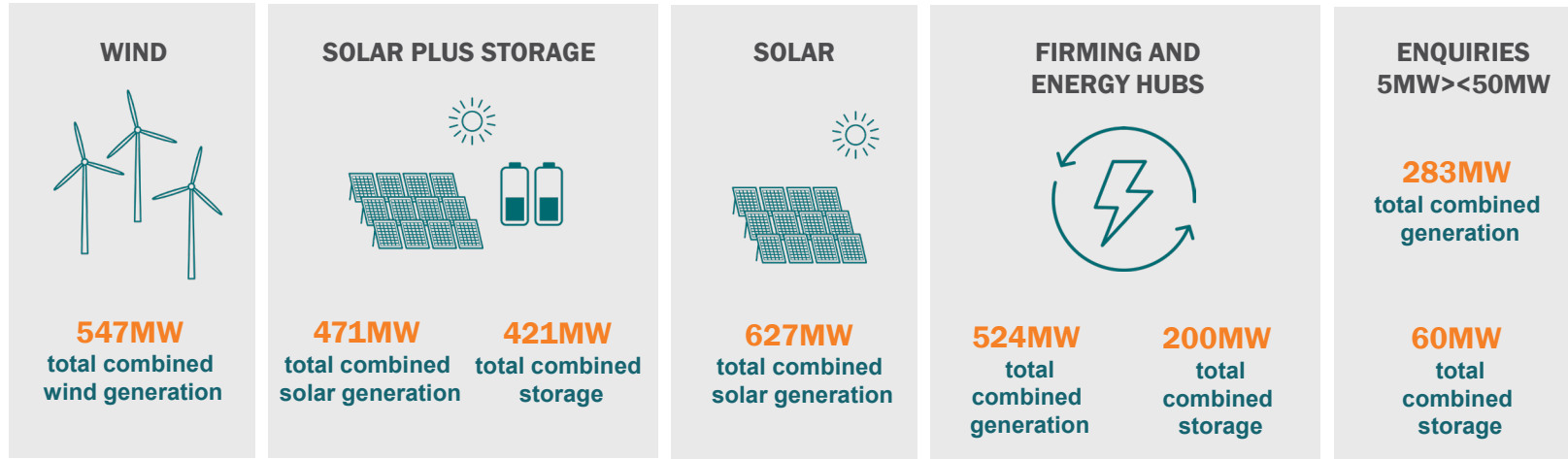
Largest hydroelectric

22.5MW Copeton Dam
Hydro Power Station

Largest wind committed/ under construction

Flyers Creek Wind Farm
154.54MW

MAJOR CONNECTION PIPELINE* 2451MW GENERATION 680MW STORAGE



EXISTING ROOFTOP SOLAR

2.4GW

current peak network demand

2.1GW

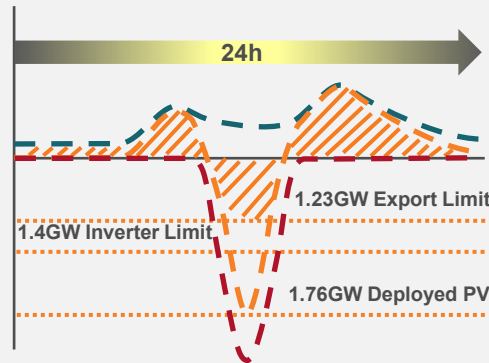
34% increase in connections with rooftop solar predicted by 2025

Energy Flow (KW) 

Net Energy (KWh) 

Gross Generation (KW) 

Gross Load (KW) 



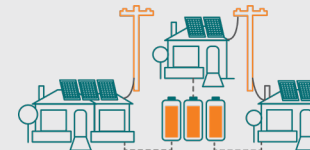
BATTERY ENERGY STORAGE SYSTEMS



First Network Battery
delivered February 2023



6
planned pole-top batteries



3
planned community batteries

* As at 24 March 2023



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