

15,747 Megawatts

\$27.7b . Investment

3,224 Victorian Jobs

## Some myths about renewable energy

"It's too expensive"

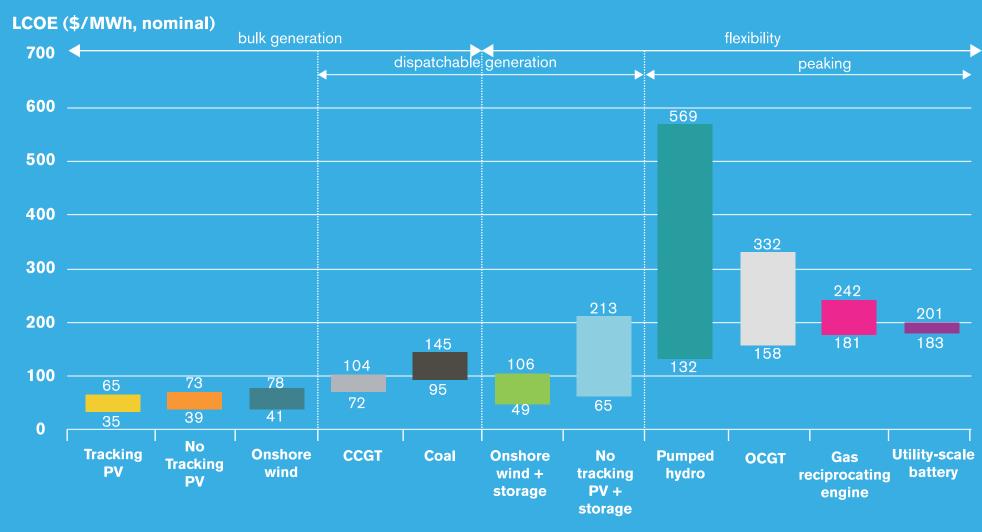
"It's unreliable"

"We don't need it"



#### Levelized cost of electricity in Australia





Source: BloombergNEF

# Renewables growth and energy reliability





#### We have ageing power plants



#### Ageing power plants



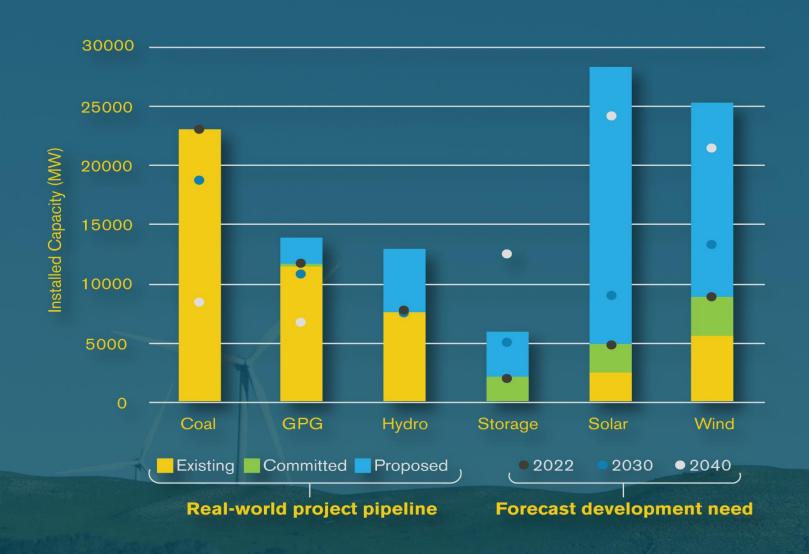
#### Historical brown coal full forced outage performance



Source: AEMO

### **Changing generation mix**

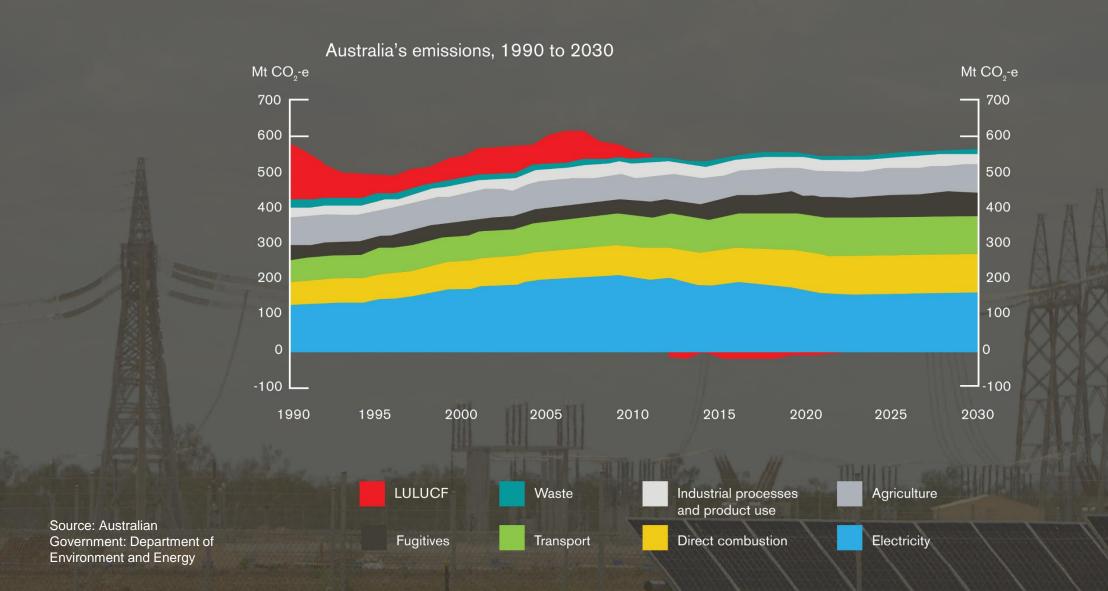




Source: AEMO

#### **Emissions Reduction Opportunity**





# Projected locations of renewable energy - 2040

#### By 2040:

- Geographically diverse renewable energy developments replacing retiring generation.
- Storages provide firming support.
- Role for transmission to share capacity and energy across regions.



Source: AEMO



# 100% renewable energy - Can we do it?

Abundant natural resource Storage is key

- Role of batteries
- Role of pumped hydro

## **Current issues**

Constraints in transmission

How can transmission upgrades unlock potential in the region?



