

# Energy transition & jurisdictions

October 2021



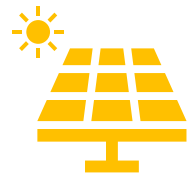
# The future as painted by our customers ...



- Green energy will be **cheap and abundant**
- Energy supply will be **zero carbon**
- Fossil fuels will be a thing of the past
- Generation will be solely through renewable energy
- Households would be **self-sufficient**, or able to pool surplus to support others

# We wholeheartedly agree!

Within 15 years, we could have up to:



**4GW**  
rooftop solar



**2GWh**  
residential storage



**2.5GW additional demand**  
500k electric vehicles



**2GW**  
electric hot water

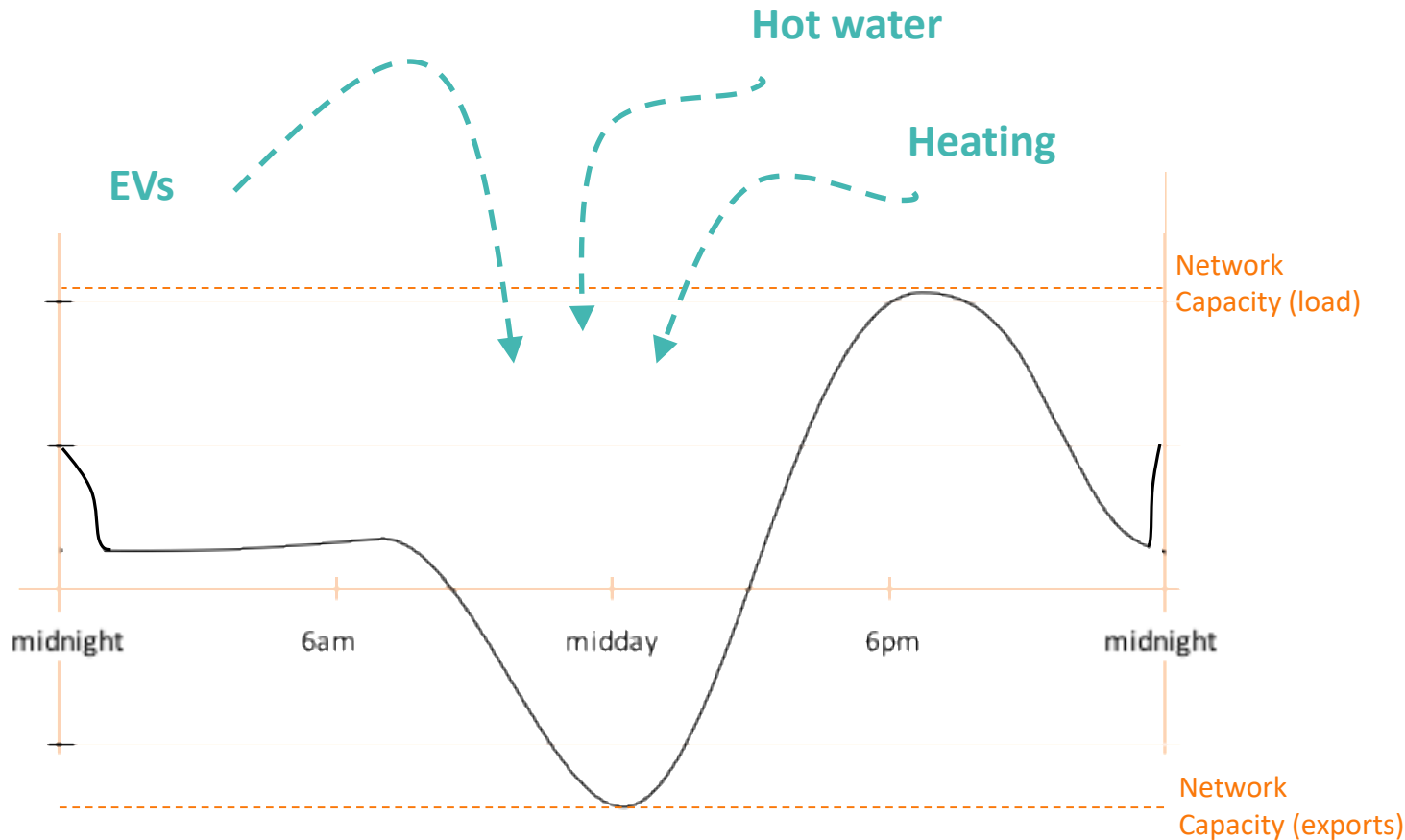
By 2035, South Australia will be **routinely** supplied by **100% rooftop solar PV**

We have an exciting opportunity to **lead the world** in creating an **affordable, reliable, low carbon energy system ...**

... powered **significantly by customers!**

Low cost, low carbon energy will unlock new economic opportunities for our state as a clean energy powerhouse

# Our challenge is to make this work



... all on a power system  
designed for 3GW peak  
demand

Our investment in network capacity to meet air-conditioning demand means we have enough spare for **ALL** these new applications

However it's not trivial!

We need to manage **10GW+** of resource onto a **3GW** network

This creates challenges at every level of the industry



# And we can't forget the fundamentals

1. Affordable and equitable energy supply
2. Empowering customer choice and flexibility
3. A reliable, resilient and safe electricity network
4. Enabling clean energy and unlocking future value for our State



# National vs. Jurisdictional

- Transition requires speed & agility ≠ national approach
- Each jurisdiction does have unique circumstances
- By some jurisdictions leading, we can learn before adopting a national approach
- However, it would be desirable if this were acknowledged and understood by policy and rule-makers, so that our **end-goal remains national consistency**
- Also desirable would be agreed principles & architecture



**Empowering** South Australia