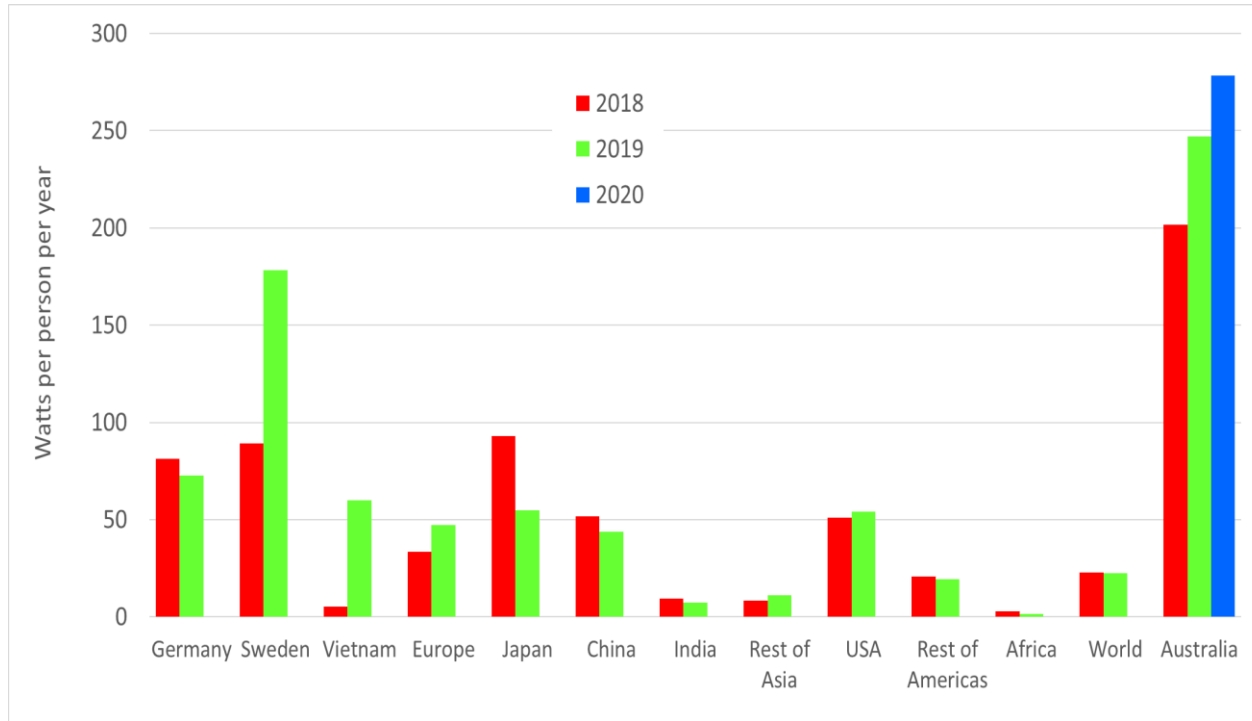


# Global annual per capita RE installation

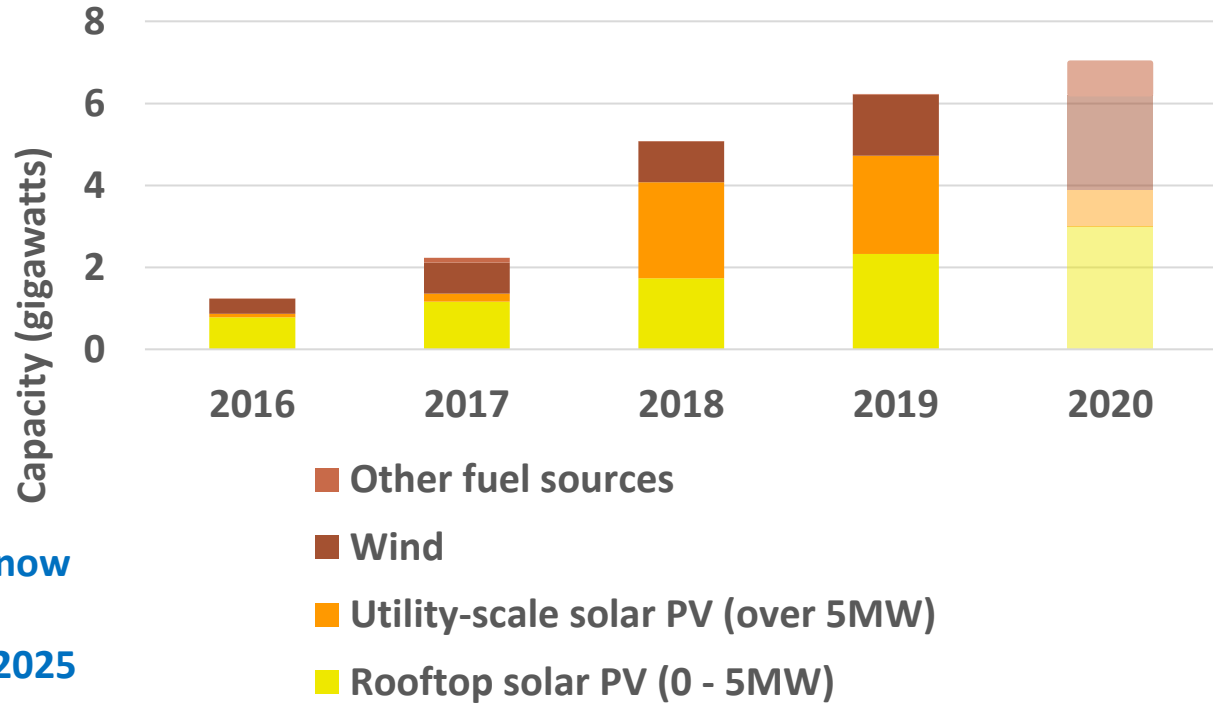


*Australia leads the world: >250W per capita p.a. RE installation rate*



# Australian Renewable Energy Pipeline

Source:  
Clean Energy Regulator



South Australia >60% now

Nationwide – 50% by 2025

2020 Large-scale renewable energy capacity installation rate:

~ 4.1 GW p.a.

2020 Rooftop solar energy capacity installation rate:

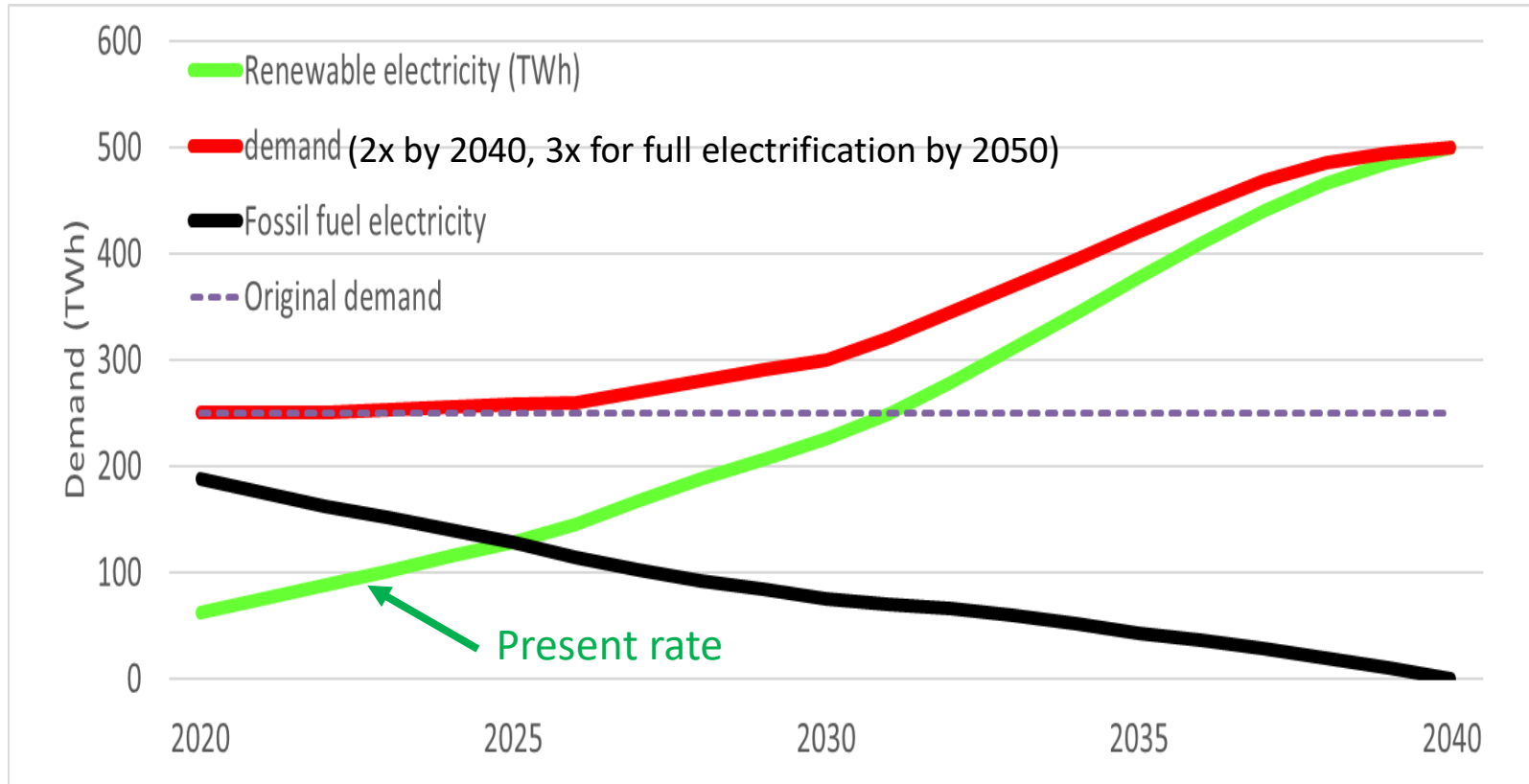
~ 3.0 GW p.a.



~7.1 GW p.a.



# Replacement with electrification



# A future Australian export scenario

Export the same amount of energy as now:

- 80% as hydrogen (65 Mt/year)
- 20% renewable electricity (540 TWh/y)

Mine the same amount of ore and export:

- 510 Mt/y as green steel (6 Mt/y steel now)
- 18 Mt/y as green aluminium (2 Mt/y Al now)

Total renewable electricity required

- 7,040 TWh/y
- 27 x Australia's present electricity generation!
- Add 100% domestic RE + 200% in electrification  
= 2,700 + 100 + 200 = 3,000% renewables!

Displaces ~2,000 MtCO<sub>2</sub>/y of exported emissions i.e. ~8.6% of the Asia-Pacific's emissions (~3.7 x Australia's emissions)

