A (clean) tech tsunami - batteries included

Presentation at BCCI's *Canapés under the Canopy* launching the Solar Car Park at the Boulevard in Broome

Professor Ray Wills

Managing Director, Future Smart Strategies

Adjunct Professor, The University of Western Australia

Future Smart Strategies
Business | Innovation | Sustainability





How to be a better surfer

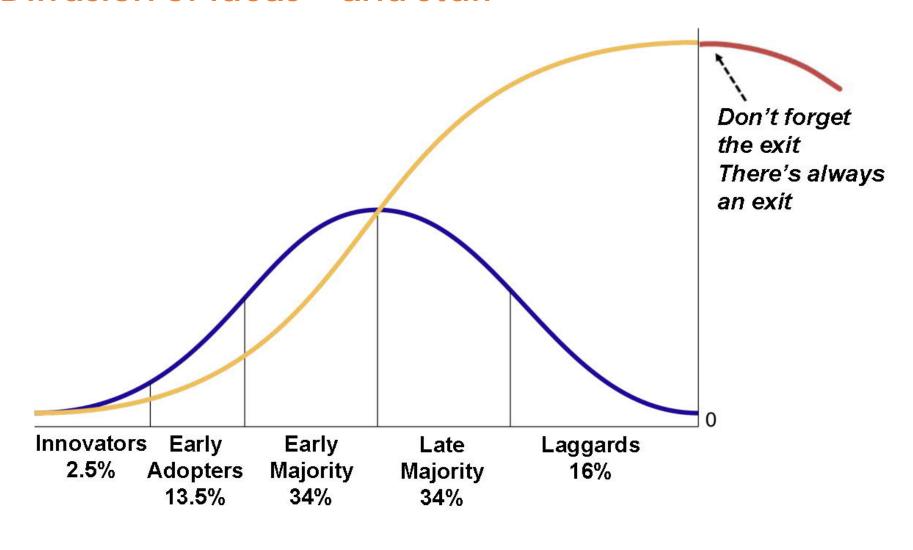
- What's happening globally with clean technology?
- What do markets tell us about how quickly disruptive technologies will impact on everything?
- How do we prepare for mind-boggling rapid change?
- Is Broome ready?
- Are you ready??



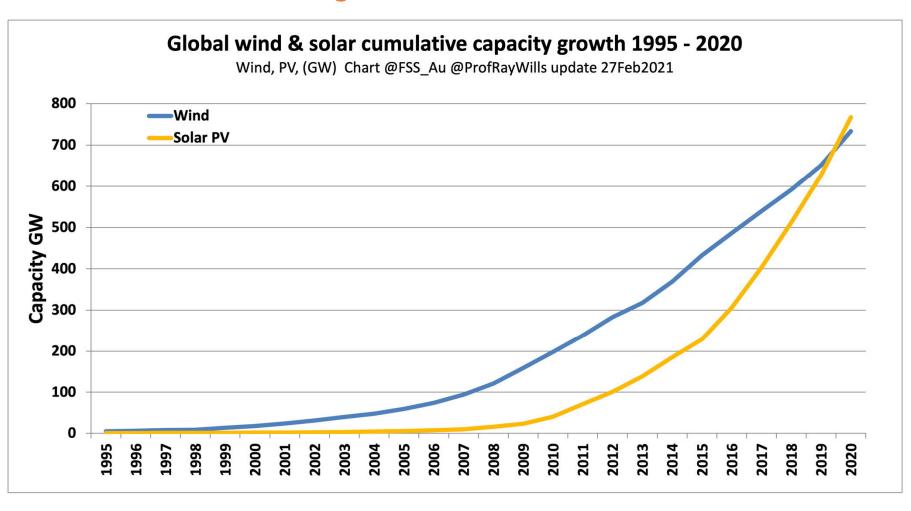
Prediction is very difficult, especially about the future.

(Niels Bohr)

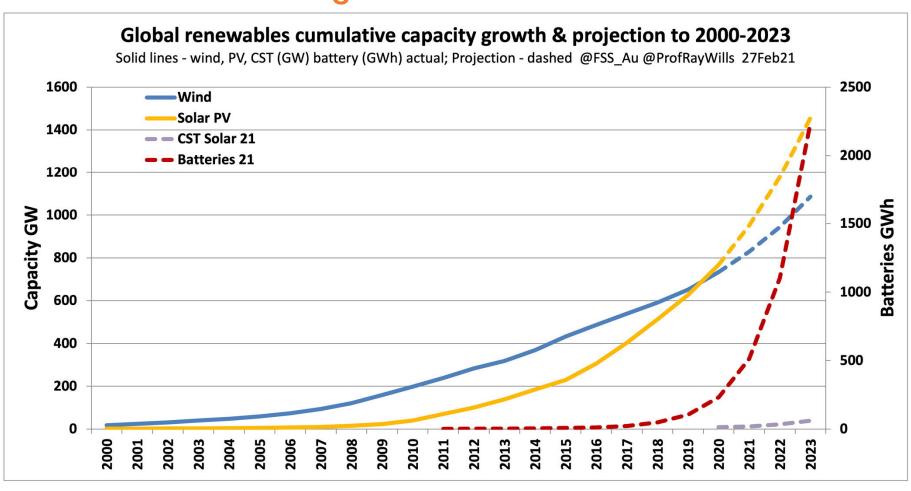
Diffusion of ideas – and stuff



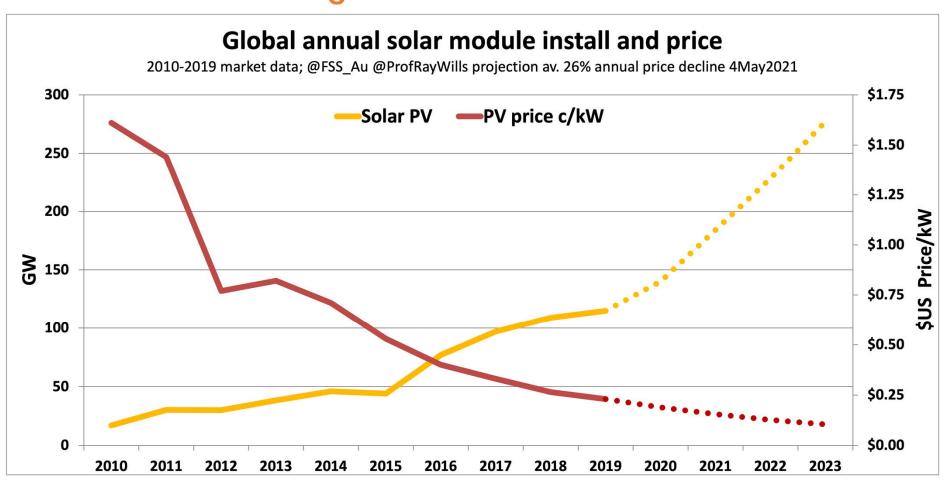
Global renewables growth to 2020



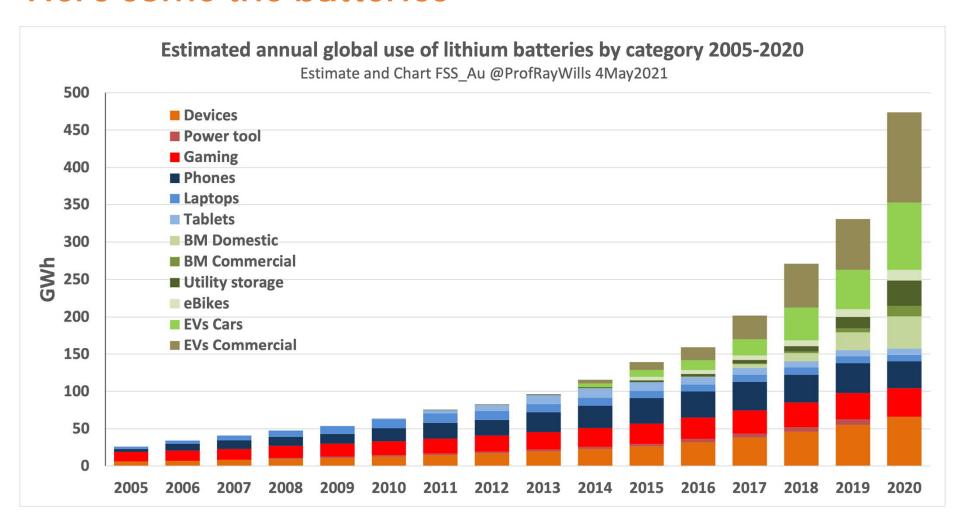
Global renewables growth and forecast to 2023



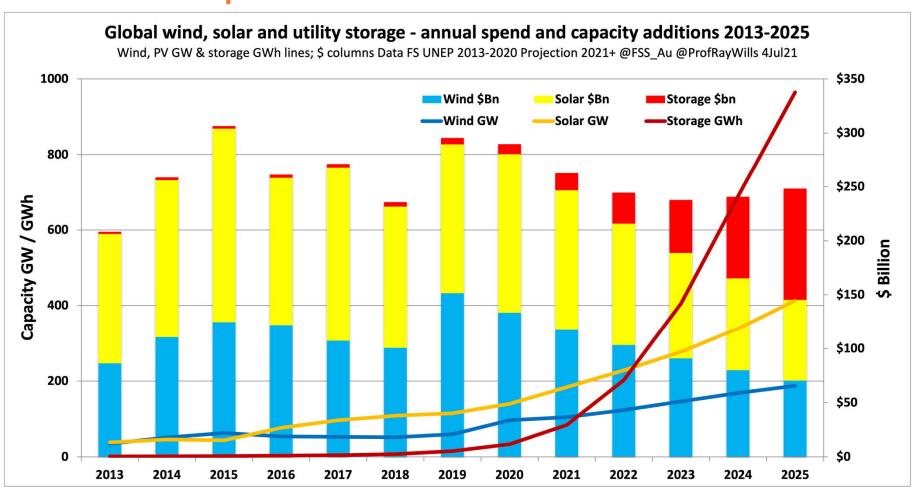
More volume brings lower cost



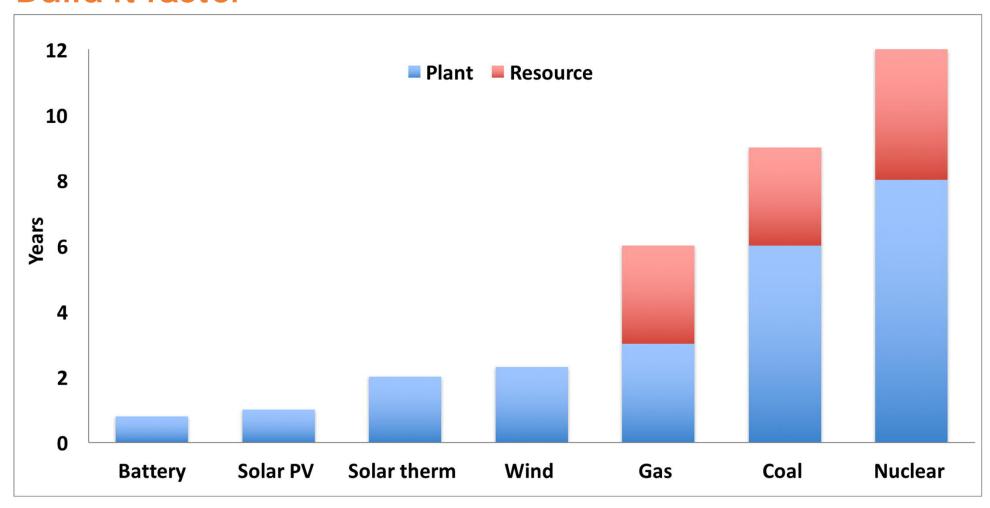
Here come the batteries



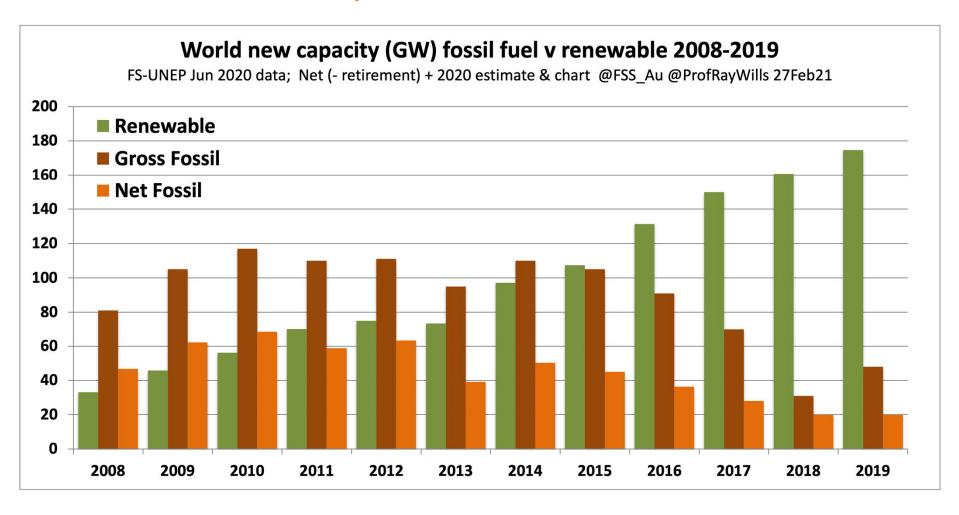
Build it cheaper



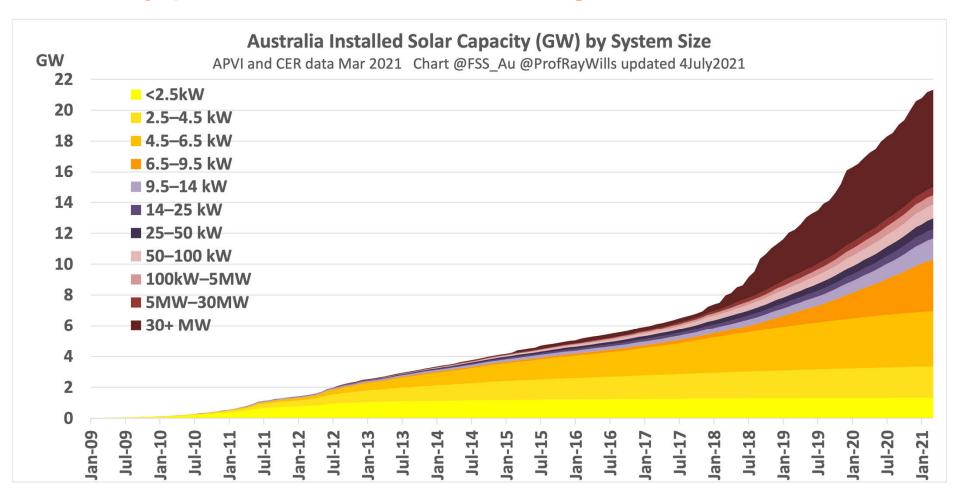
Build it faster



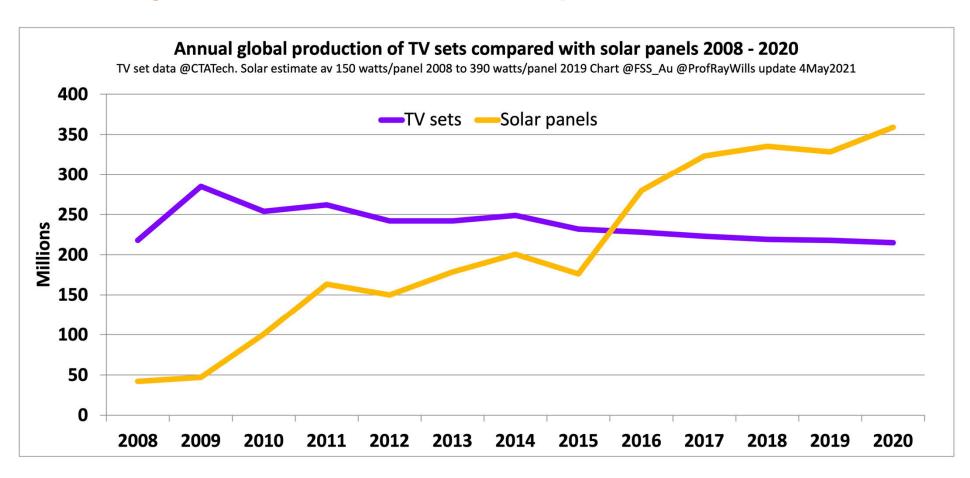
Build less of the old, more of the new



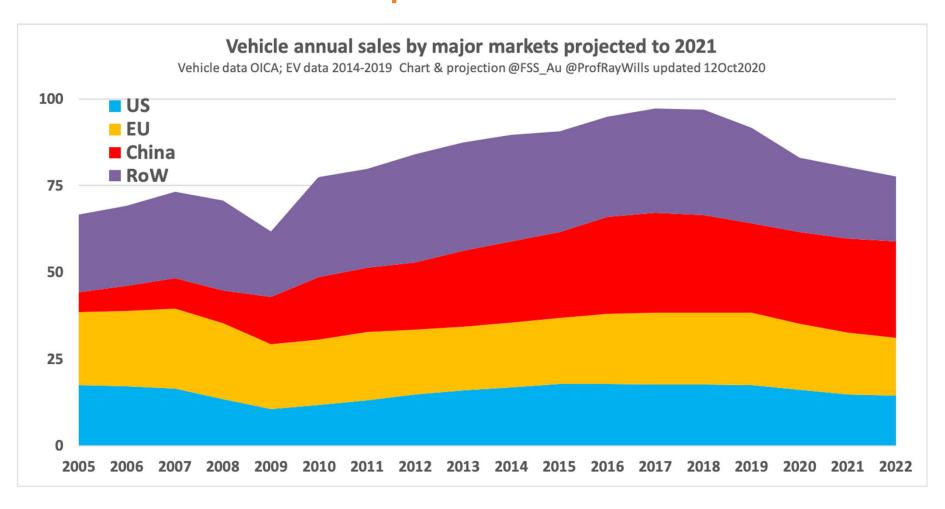
Solar key part of Australia's change



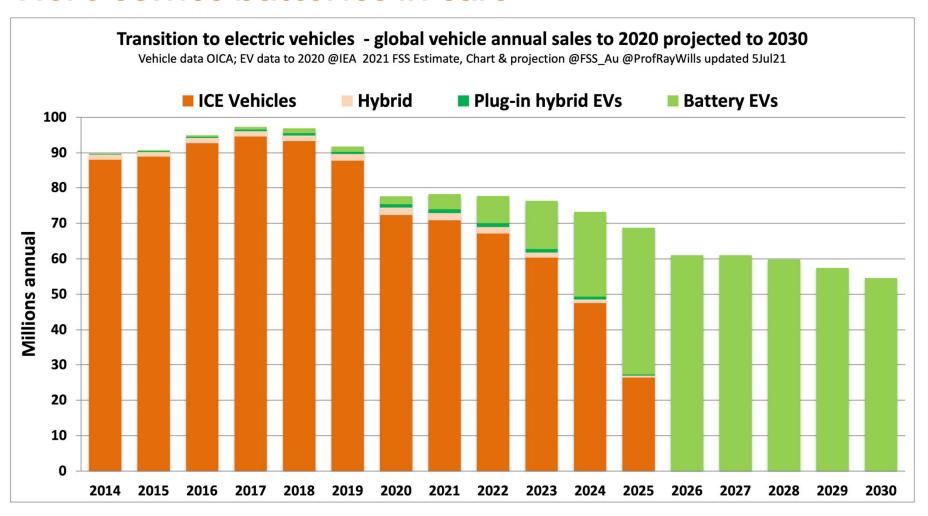
Solar as just another consumer product



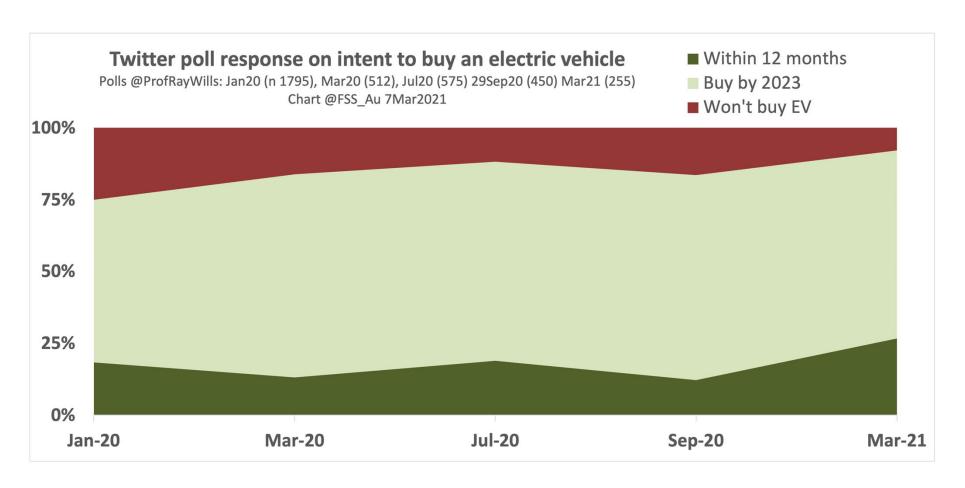
Global vehicle sales – peak car



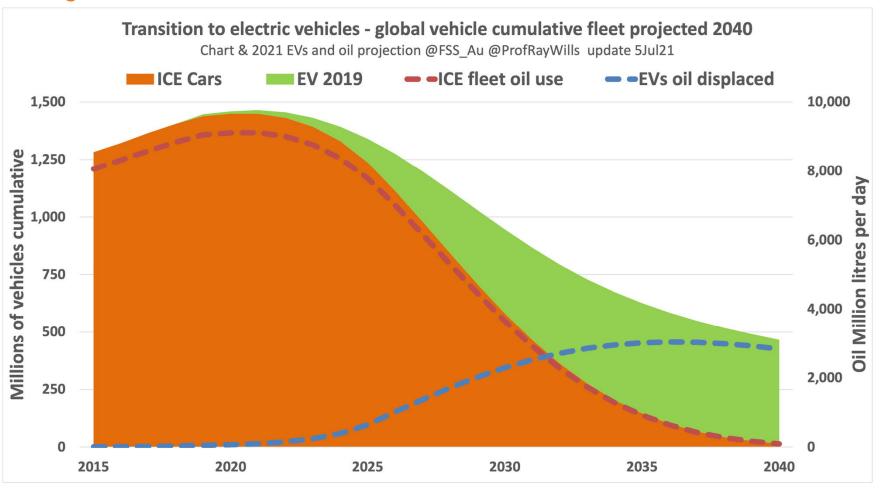
Here comes batteries in cars



Who's buying a battery electric car?

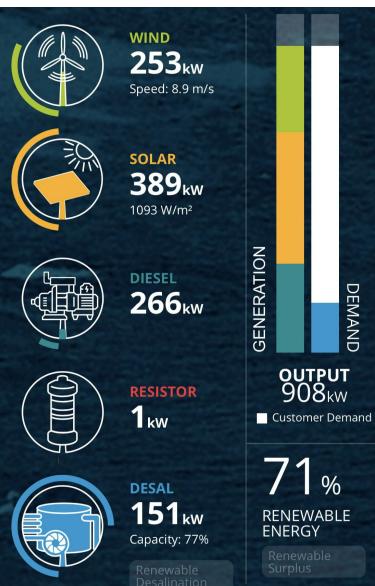


It's just the data – future is electric

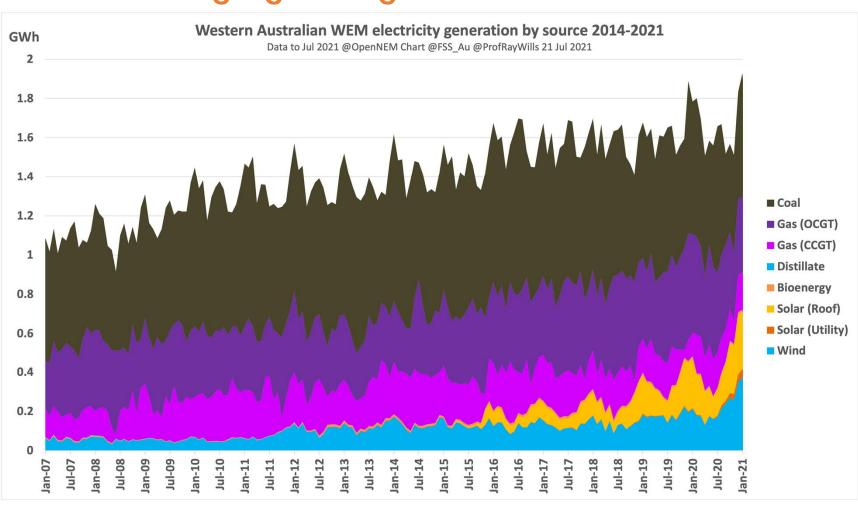


Wind, solar, batteries change WA

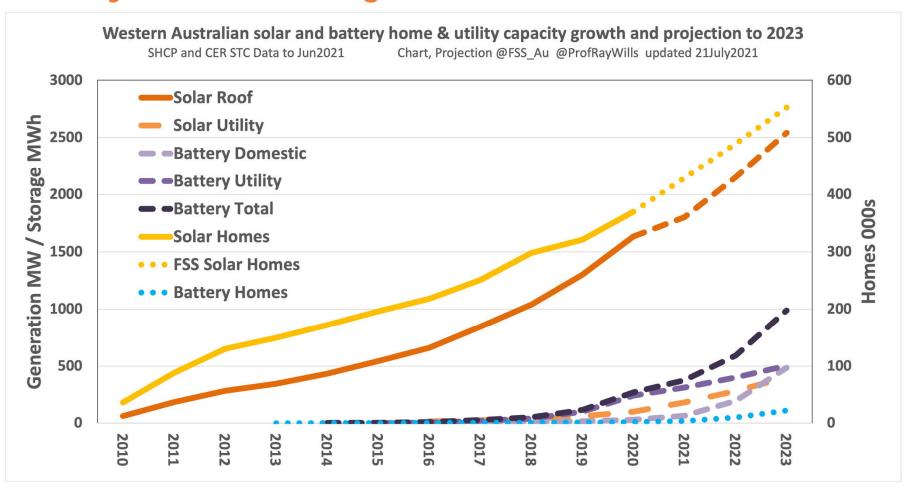




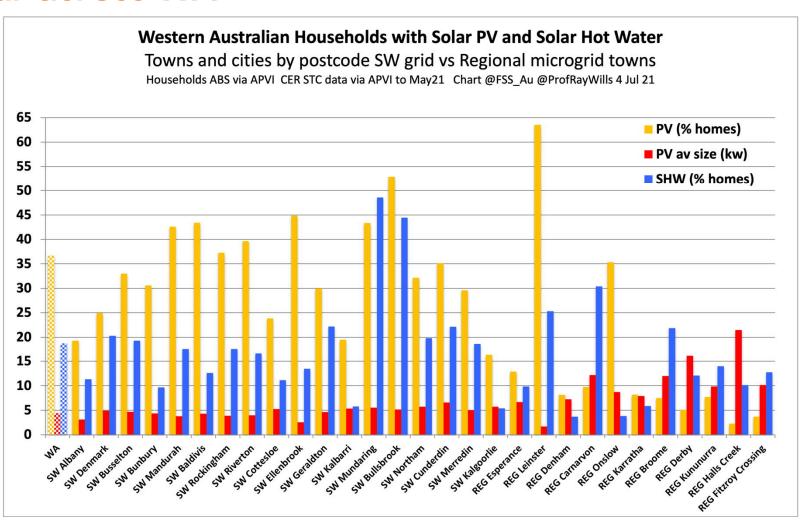
Renewables bringing change to WA



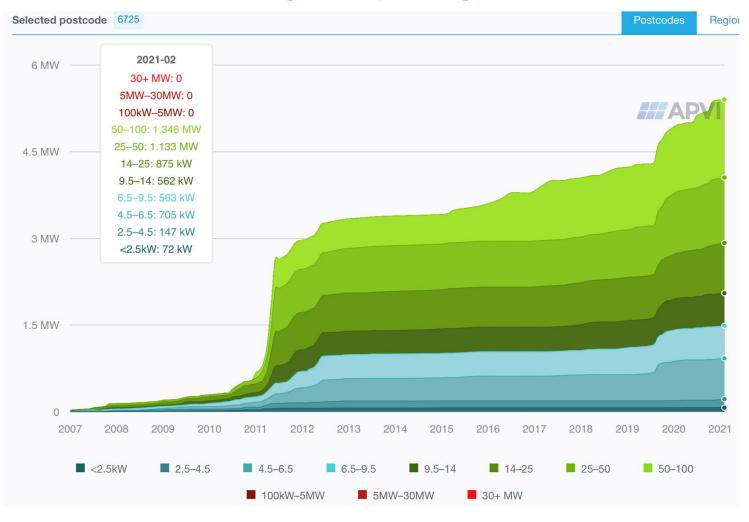
Solar key to WA's change



Solar across WA



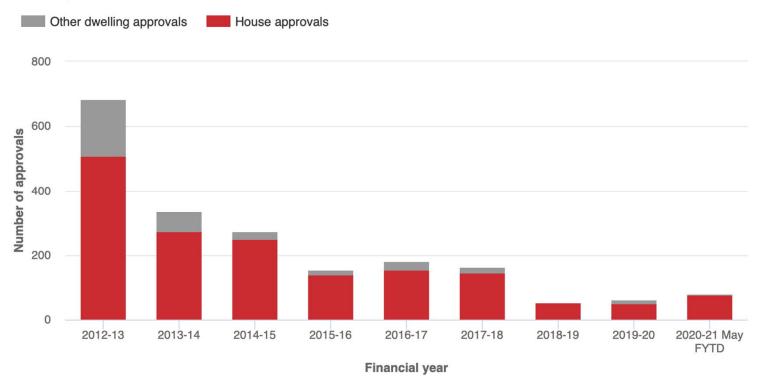
Broome solar roof history - capacity



Broome building approvals

Residential building approvals

RDA Kimberley



Source: Australian Bureau of Statistics, Building Approvals, Australia (8731.0). Compiled and presented by .id (informed decisions).



Broome corporate players



Supermarket Giants Race To Net Zero, Beating The Do-Nothing Australian Government



By David Waterworth Published August 26, 2021





6 Comments

petajoules of energy each year and last year that resulted in nearly 1.3m tonnes of greenhouse gas emissions.

Broome shopping centre to host massive solar and battery system



The Western Australian town of Broome will become host to one of Australia's largest shopping centre solar installations.

The 1.2MW commercial solar installation will be added to the Broome Boulevard Shopping Centre, owned by ASX-listed property investors Primewest, constructed over the centre's car park, and is expected supply around 45 per cent of the centre's electricity needs.



OVER THE LONG TERM

Sustainability at Vestarmers.

Bunnings and Officeworks commit to 100% renewable energy by 2025

Bunnings and Officeworks have announced plans to source 100 per cent renewable electricity by 2025, to help achieve their recently announced targets of net zero Scope 1 and 2 emissions by 2030.

Energy Transformation Association for the Kimberley

The future of energy is coming to the Kimberley

- how can we help to shape that future?

ETAK's Vision

 To facilitate and advocate for the transformation of the energy landscape in the Kimberley to add value and benefit to our members and to provide an affordable, secure, and sustainable energy future for the Kimberley.

Future Smart Strategies

Business Innovation Sustainability

Transport
Training
Resources
Renewables
Renewables
Policy
Property
Planning
Markets
Industry
Infrastructure
Hospitality
Health
Environment
Energy
Education
Cleantech
Architecture

Assess business opportunities

Build business partnerships

Manage business risk

Engage stakeholders

Utilise strategic experience

Understand policy and regulation

Take evidence-based approaches

Get expert sustainability advice

Embrace cutting-edge technologies

www.futuresmart.com.au

Future Smart Strategies

Business Innovation Sustainability



www.futuresmart.com.au