

Electric Vehicles Driving the transformation

Presented by Cathi Buttfield

Project Manager, Electric Vehicle Integration



Overview

South Australia's:

Clean energy transformation

Electric Vehicle (EV) transformation

EV uptake

Statewide EV Charging Network

EV Smart Charging Trials

Are you EV ready?



Acknowledgement of Country

The Department for Energy and Mining acknowledges Aboriginal people as the First Nations Peoples of South Australia. We recognise and respect the cultural connections as the traditional owners and occupants of the land and waters of South Australia, and that they continue to make a unique and irreplaceable contribution to the state.



A stunning transformation



Clean Energy News and Analysis

“Remarkable:” South Australia reached 100 pct renewables nearly every day in October

[Giles Parkinson](#) 2 November 2021 8




Bungala solar farm.

1% to 68%
renewables in **> 15 years**

Electric Vehicles

Driving the transformation

\$53.25m



2025 default choice for fleets

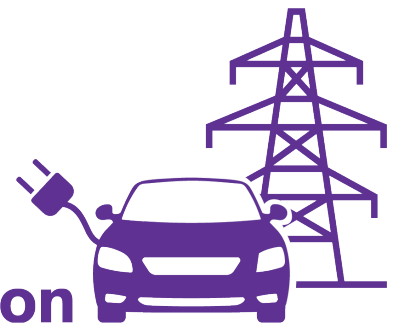
2050
CO₂
NEUTRAL



2030 reduce our greenhouse gas emissions by at least **50%**

20 years

1 million





3,000
Electric vehicles

2022

170,000
Electric vehicles

2030

1 Million
Electric vehicles

Next 20
years

Vision

We will be a national leader in electric vehicle uptake and smart charging by 2025: harnessing renewable energy to reduce motoring costs, lower air, noise and carbon pollution, and reduce electricity costs for all South Australians.



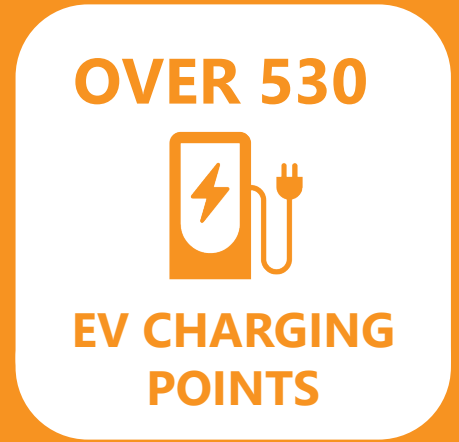
1 x 350kW DC



70 Allotment Subdivision



Statewide Charging Network





Rationale for Government to support network development:

1. Road trip anxiety
2. Bring forward private investment
3. Cost savings for all electricity consumers
4. Achieve 50% reduction in state greenhouse gas emissions by 2030.

EV Smart Charging Trials



GRANTS



**NINE
TRIALS**

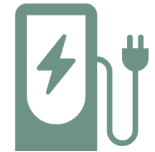
**ACROSS
26 SITES**

\$4.8m



**PRIVATE
INVESTMENT**

OVER 140



**EV CHARGING
POINTS**



**MINIMUM
12 MONTHS**



**DATA COLLECTION &
KNOWLEDGE SHARING**



Electric Vehicle Smart Charging Trials

Funding Guidelines

electricvehicles.sa.gov.au



Delivering 9 innovative projects across 5 funding streams

Demonstrate smart charging solutions

Overcome barriers to EV uptake

Integrate into our electricity system

Generate private investment in EV charging infrastructure

- 1. Commercial Fleets**
- 2. Virtual Power Plant (VPP)**
- 3. Adelaide Off-Street CBD Carparks (non-ancillary)**
- 4. Public Rapid Charging – Time of Use Pricing**
- 5. Hotels, Motels & Holiday Parks**



JET CHARGE



NRMA Parks + Resorts



CHARGEFOX



PORT ADELAIDE PLAZA



CITY OF ADELAIDE



JOLT



CITY OF Port Adelaide Enfield



City of Norwood Payneham & St Peters



Wilson Parking



UNITING COMMUNITIES



Centacare Catholic Family Services

For more info visit: electricvehicles.sa.gov.au

Are you EV ready?

Get ready

Get set

...and GO!

Supply Constrained

Preferred Choice

Dominate Market

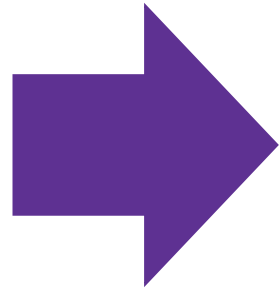
2020
-
2025

2026
-
2030

2031
-
2035

So many choices!

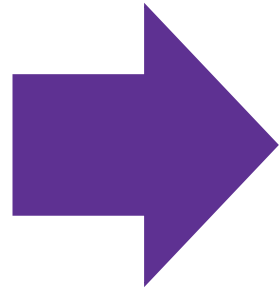
- * Diesel
- * Petrol
- * LPG



- * Hybrid
- * Plug-in Hybrid
- * Electric
- * Hydrogen EV

Limit the field

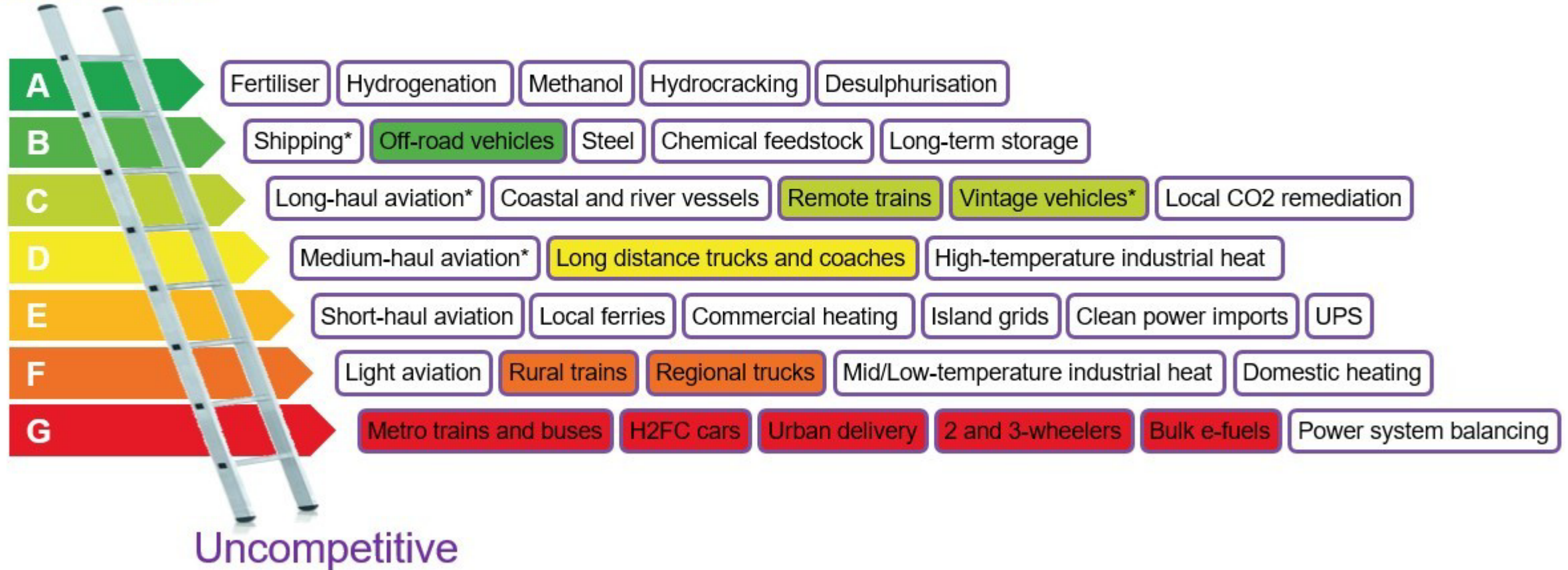
- * Diesel
- * Petrol
- * LPG



- * Plug-in Hybrid
- * Electric

Clean Hydrogen Ladder: Land transportation

Unavoidable



* Via ammonia or e-fuel rather than H2 gas or liquid

Source: Liebreich Associates (concept credit: Adrian Hiel/Energy Cities)

Residual values?



Plan now



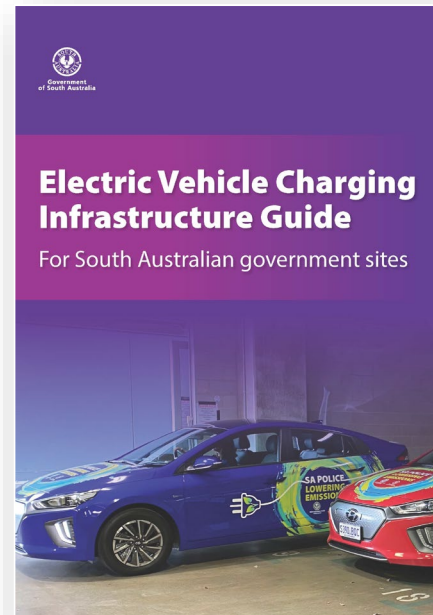
**Start the
conversation**



What we are doing?

Plug-in Electric Vehicle Opt-out Policy

Must take EV if cost effective and fit-for-purpose model
in vehicle category



Electric Vehicle Working Group

Practical advice and
consistent approach to
infrastructure, fleet transitions
and costs

Property Leases

Get ready

Get set

...and GO!

Fleet Plan

1

EV Charging
Infrastructure Plan

2

Lease Renewal

3



EV FLEET PLEDGE

Foster a network of like minded businesses that commit to integrating electric vehicles, as cost-effective and fit-for-purpose models become available.

Get ready

Get set

...and GO!



evfleetpledge.sa.gov.au



EV FLEET PLEDGE

Get ready

Get set

...and GO!

Empower

Plan

Integrate

Optimise

Engage

1

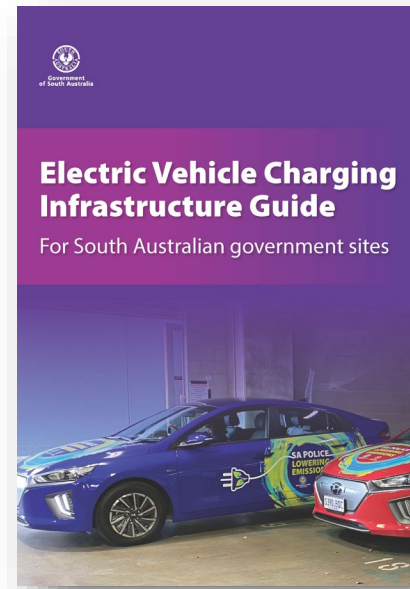
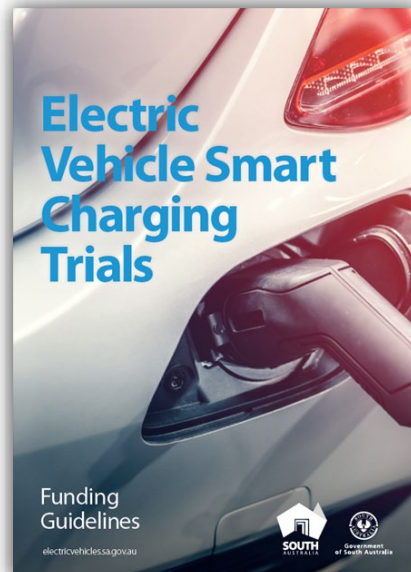
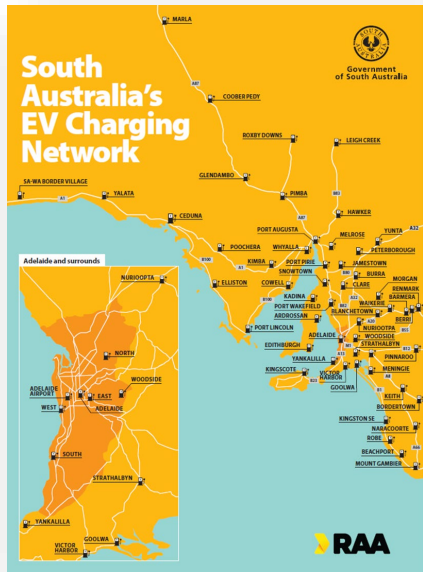
2

3

4

5

Bringing It All Together



Get ready

Get set

...and GO!

 **EV FLEET
PLEDGE**

**Property
Leases**

**Plug-in
EV Opt-out
Policy**

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