- CITIES POWER PARTNERSHIP

CLIMATE COUNCIL

June 28 Webinar

Bernhard Conoplia Program Director NRMA Electric Vehicle Fast Charging Network





The NRMA: 98 years of innovation for Members and their communities

More than 2.6 million Members

One in every two households in NSW and the ACT

Committed to adding value for Members and the communities they live, work and visit



We are at the beginning of a motoring transformation



20 new electric models on the way from GM



2019 every new Volvo will have an electric motor



Battery technology rapidly improving. EVs becoming cheaper





2-3 weeks fuel supply in Australia



7 countries planning to ban ICE vehicle sales

145m EVs by 2035



2030 VW electrifying its entire fleet



Committed investment into EVs by VW, Daimler, BMW

> 2m EVs worldwide today

NRMA research demonstrated that there is already demand for electric vehicles, but significant barriers remain

Two main barriers to EV purchasing

1. Cost of vehicles

2. Range anxiety / lack of infrastructure

If fast charging infrastructure is available...



amenities and services

The early business case for EV infrastructure is challenging while EV numbers are so low

Charging infrastructure is a "chicken and egg" dilemma

- Consumers won't purchase until infrastructure exists
- Investment requires sufficient volume



Where are we now with EV Universal fast charging across Australia (non-Tesla)



NSW / ACT DC fast chargers

- NRMA Olympic Park
- NRMA Newcastle
- NRMA Jindabyne (coming soon)
- Byron Bay
- University of Wollongong
- ACT x 3

The NRMA investing \$10m to create one of Australia's largest EV fast-charger networks

- 40+ sites maximum 150km apart
- Accounting for 95% of Member road trips
- Universally accessible adopting the most common DC plug types
- Fast charging technology will charge most electric vehicles to 80% capacity in 30 min
- Connects key tourism routes
- Delivered in partnership with local communities
- Free to use for Members and available at a reasonable cost for non-members



What makes for a good EV fast charger site?



What does our partnership model look like?



- Capital investment for sites that are required for minimum coverage
- Operating cost of maintaining the network, including additional sites
- Operating cost of servicing and supporting EV drivers (including power)
- Promotion to NRMA's 2.6m members
- Potential to expand through co-investment.

Local Councils/Site Owners

- Commercial value of parking bays in centrally located parking areas over the life of the license agreement
- Engagement with local community stakeholders before sites are agreed.
- Site improvements such as lighting, safety, landscaping (where required)
- Planning services and fee waivers to enable site license and build
- Promotion of the site and the network to the local community



The NRMA is leading discussions on measures that will support the adoption of EVs in Australia

Recommendations:

Make charging infrastructure investment a priority – Direct investment and facilitating utilities and preparatory work to support streamlined planning approvals.

Remove barriers to the purchase of EVs – A short-term exemption to Fringe Benefits Tax and abolish the Luxury Car Tax for EVs.

Set EV fleet targets – for Australian Governments and the corporate sector.

Establish an inter-governmental working group – with industry and consumer reps to guide and co-ordinate the transition to electric road transport.

Promote EV related industries – encourage research and development in EV batteries and other technologies associated with EVs.

