FCAI Technical Policy Statement on: Electric Vehicle Charging Standard for Public Recharging Infrastructure

Background

Electric Vehicles (EVs)[1] are set to increase among the model range, as manufacturers continue to meet increasingly stringent emissions standards. Key barriers to consumer uptake of EVs are long charging times and a lack of public charging infrastructure, the latter of which is compounded by the absence of mandated charging standards applied consistently across the global EV market.

Certainty in charging standards within Australia would enable vehicle manufacturers and EV charging infrastructure provider to make investment in future EV related product plans with reduced risk and encourage government to develop programs to incentivise uptake of EVs.

To encourage the uptake of EVs and the rollout of public recharging infrastructure, the vehicle industry has decided to make a commitment to harmonise on a set of EV charging standards for Australia.

FCAI Member Commitment

With this in mind, FCAI member companies agree to provide vehicles and Electric Vehicle Supply Equipment (EVSE) capable of operating with infrastructure which adopts the following standards for EV charging on all new models introduced from 1st January 2020.

General			
IEC 61851-1	Electric Vehicle Conductive Charging System, General Requirements		
AC Charging			
AS IEC 62196-2	Plugs, socket-outlets, vehicle connectors and vehicle inlets Configuration Type 2		
DC Charging			
IEC 62196-3	Configuration AA Configuration FF	CHAdeMO CCS Type 2	or

FCAI members may, at their option, introduce changes to existing models which will enable these vehicles to take advantage of the infrastructure complying with these requirements.

Public Charging Infrastructure

In agreeing to this vehicle configuration, FCAI recommends that public charging infrastructure adopts:

AC Charging: IEC 62196-2 Configuration Type 2 socket, and

DC Charging: Both IEC 62196-3 Configuration AA (CHAdeMO) and IEC 62196-3 Configuration FF (CCS-2) with tethered cable.

[1] EVs refer to all light road vehicles (ADR categories MA, MB, MC and NA), including battery electric vehicles (BEV) and plug-in hybrid electric vehicles (PHEV), that derive all or part of their energy from a rechargeable energy storage system (RESS)