



Reserved bay 

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The future of electric cars

Or – time is now.



JET Charge

- We specialise in assisting businesses transition to a low emissions transport future.
- We are the recommended charging partner for 11 vehicle brands, nationwide.
- We create and distribute hardware, install that hardware, and help manage your assets.
- >3000 stations deployed by end of 2019.
- Our sister company, Chargefox, are building a network of 350kW charging stations around the country, enabling the backbone for EV mobility in Australia. Chargefox is also the largest charging network in the country.

1. The basics – EV, plugs etc
2. Why EVs are inevitable
3. A few shifts to our thinking
4. Challenging assumptions

Plug Standards

Every manufacturer in Australia is moving to Type 2 for AC charging and CHAdeMO or CCS2 for DC Charging.

AC



- Type 1
- Alternate names: J1772
 - Single Phase



- Type 2
- Alternate names: IEC 62196, Mennekes
 - 3 Phase
 - Australian Standard

DC



CHAdeMO



- CCS1
- Combined Charging System Type 1



- CCS2
- Combined Charging System Type 2

Levels of Charging

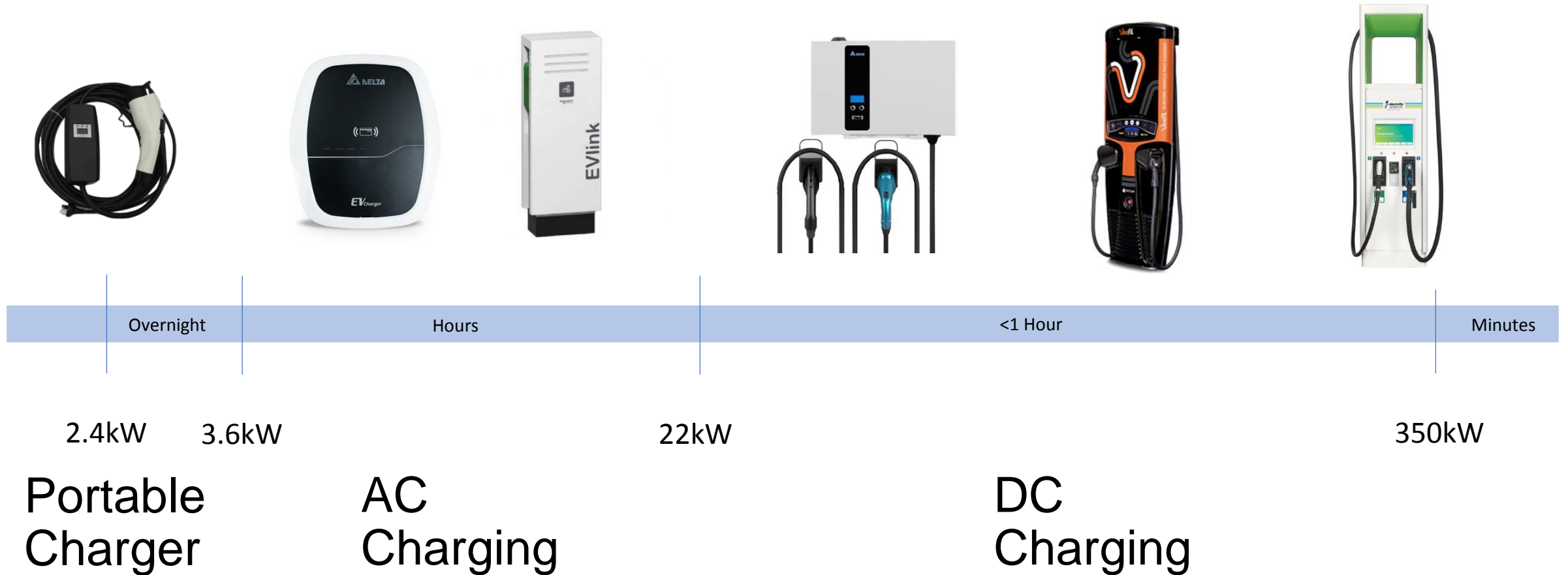
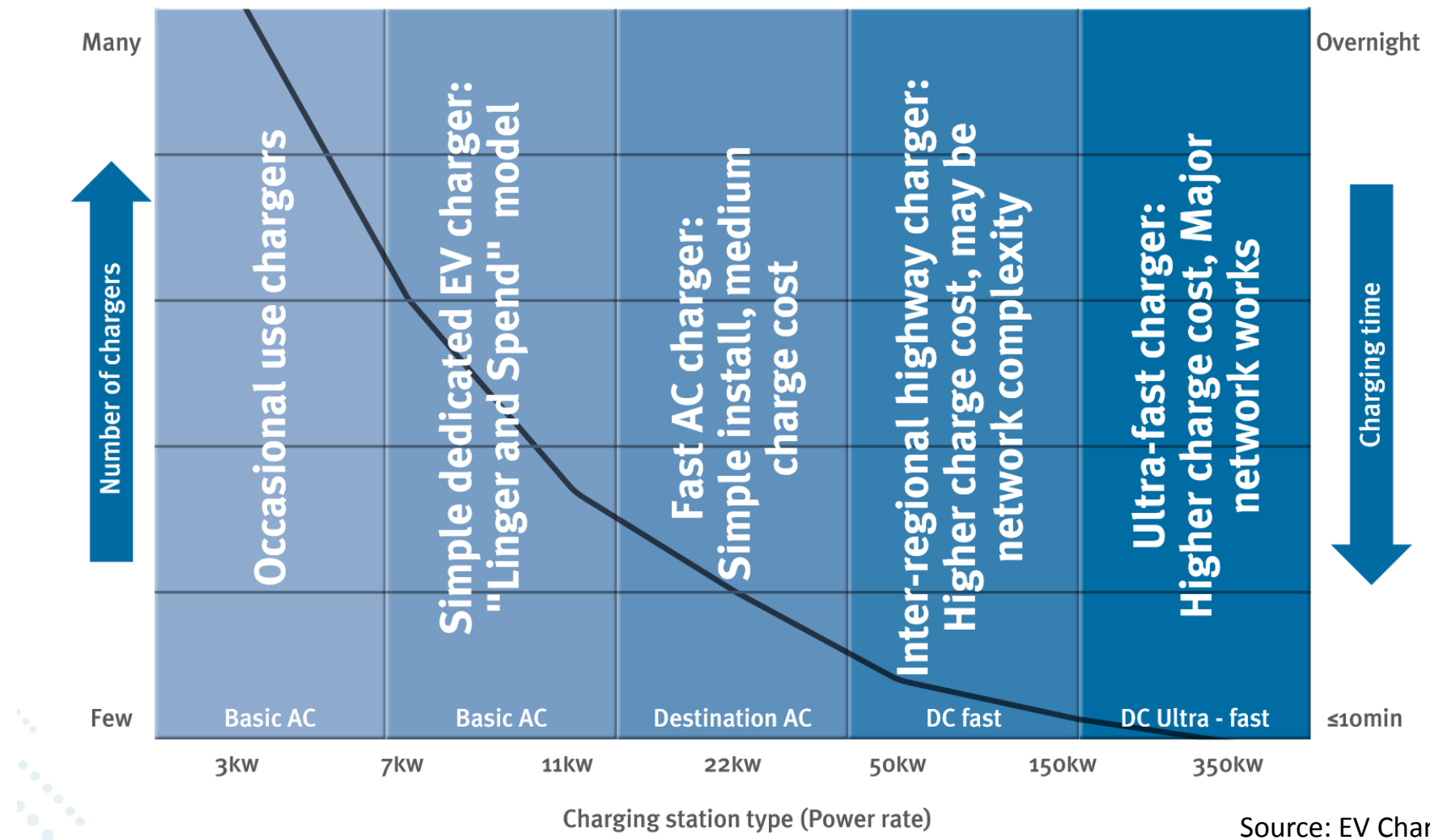


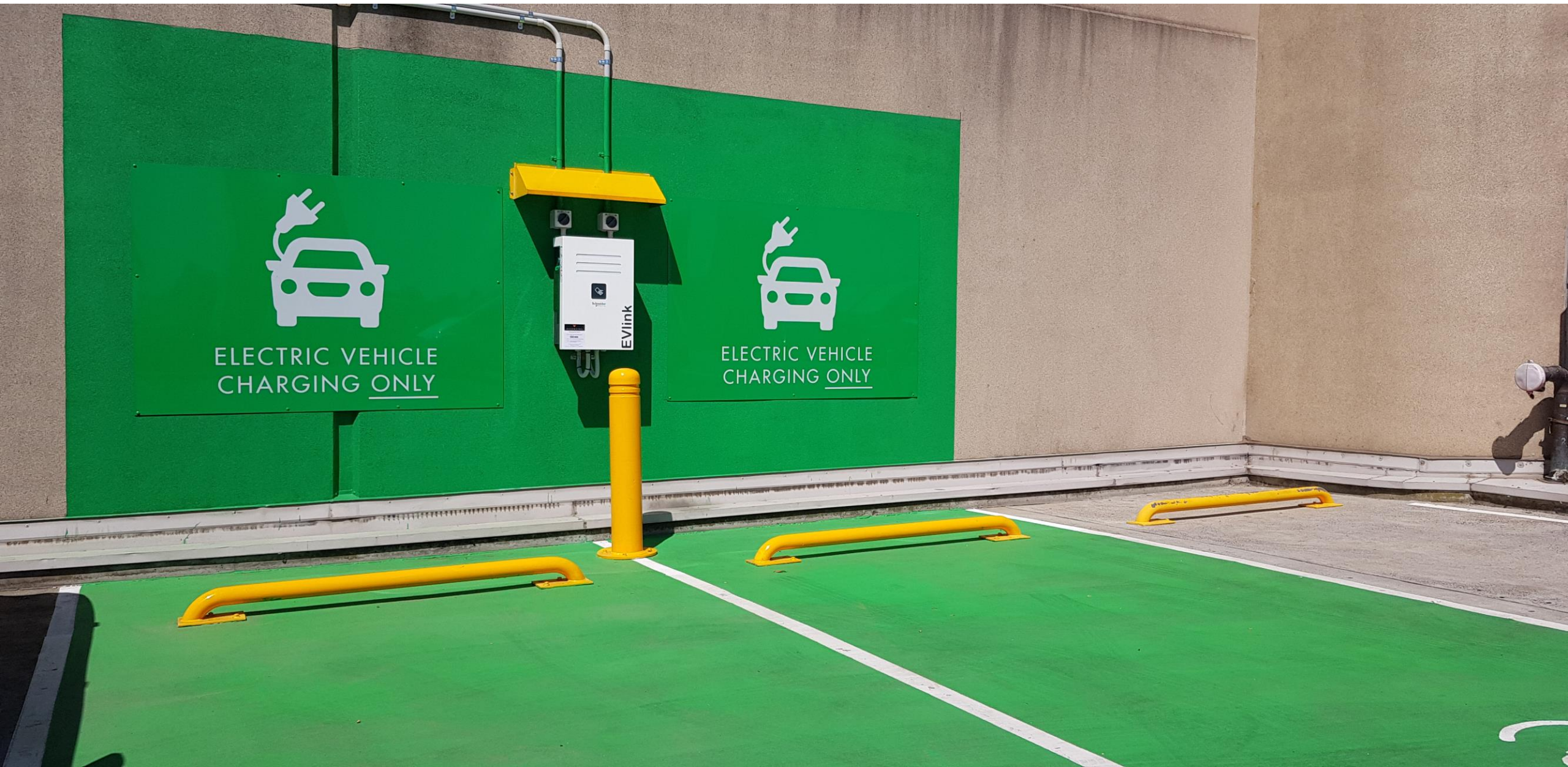
Figure 2. The EV Ecosystem Charging Curve



Source: EV Charging Infrastructure Practice Note (Economic Development Queensland)







ELECTRIC VEHICLE
CHARGING ONLY

ELECTRIC VEHICLE
CHARGING ONLY

EVlink

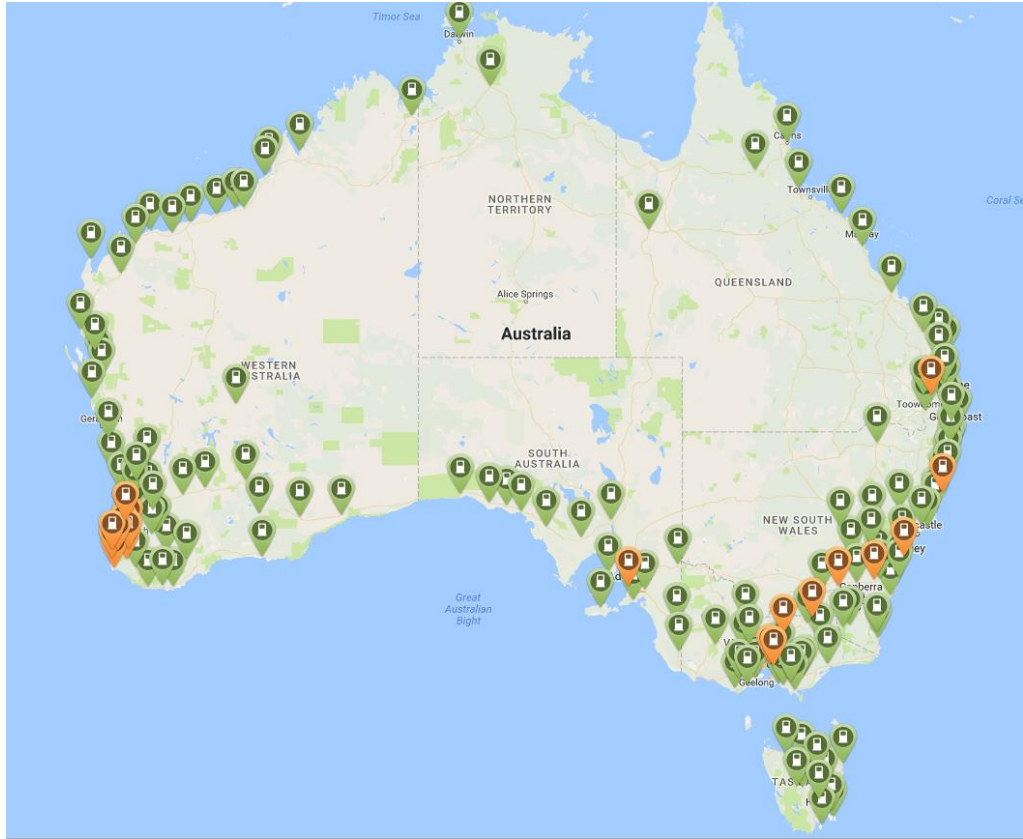


ANOTHER
SUSTAINABLE
TRANSPORT
INITIATIVE

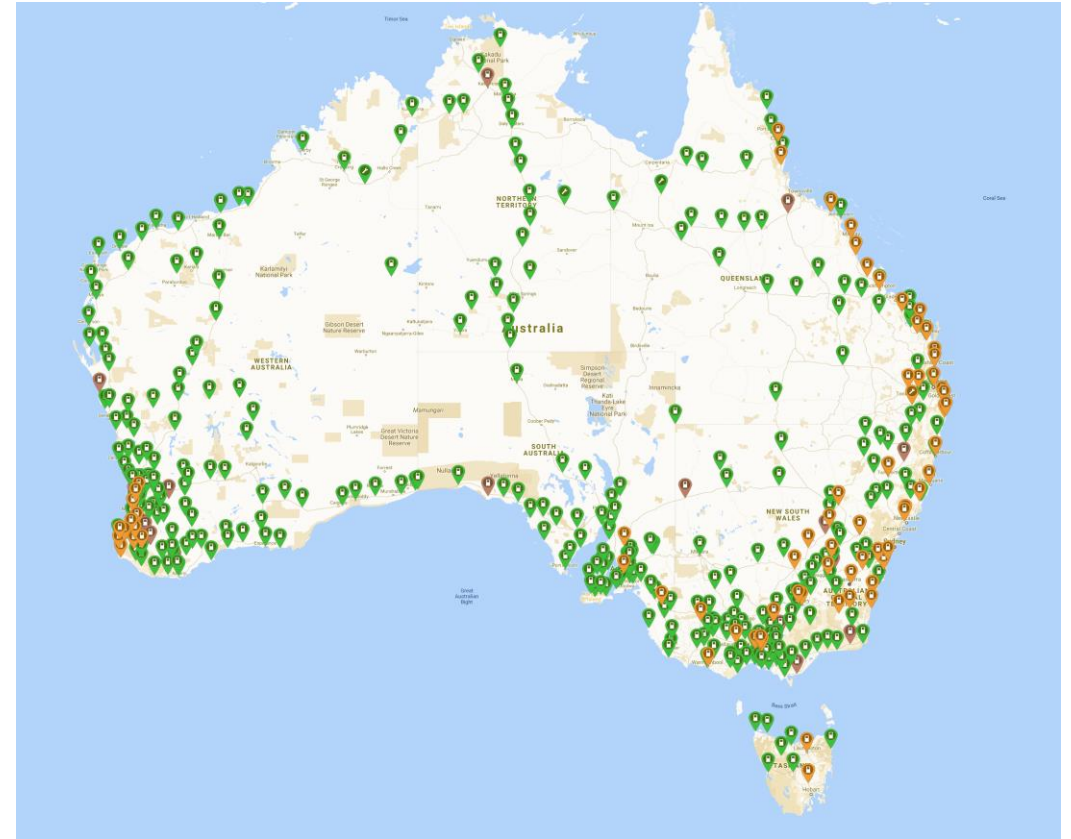
ELECTRIC VEHICLE RAPID CHARGER

EVlink

TRITIUM



2016



2019



CHARGEFOX

Ultra-rapid network

22 sites. 54 stations.

Each site has:

- 350kW charging
- 2+ chargers
- CHAdeMO
- CCS2

5 sites operating already.

Aiming for completion end 2019





CHARGEFOX

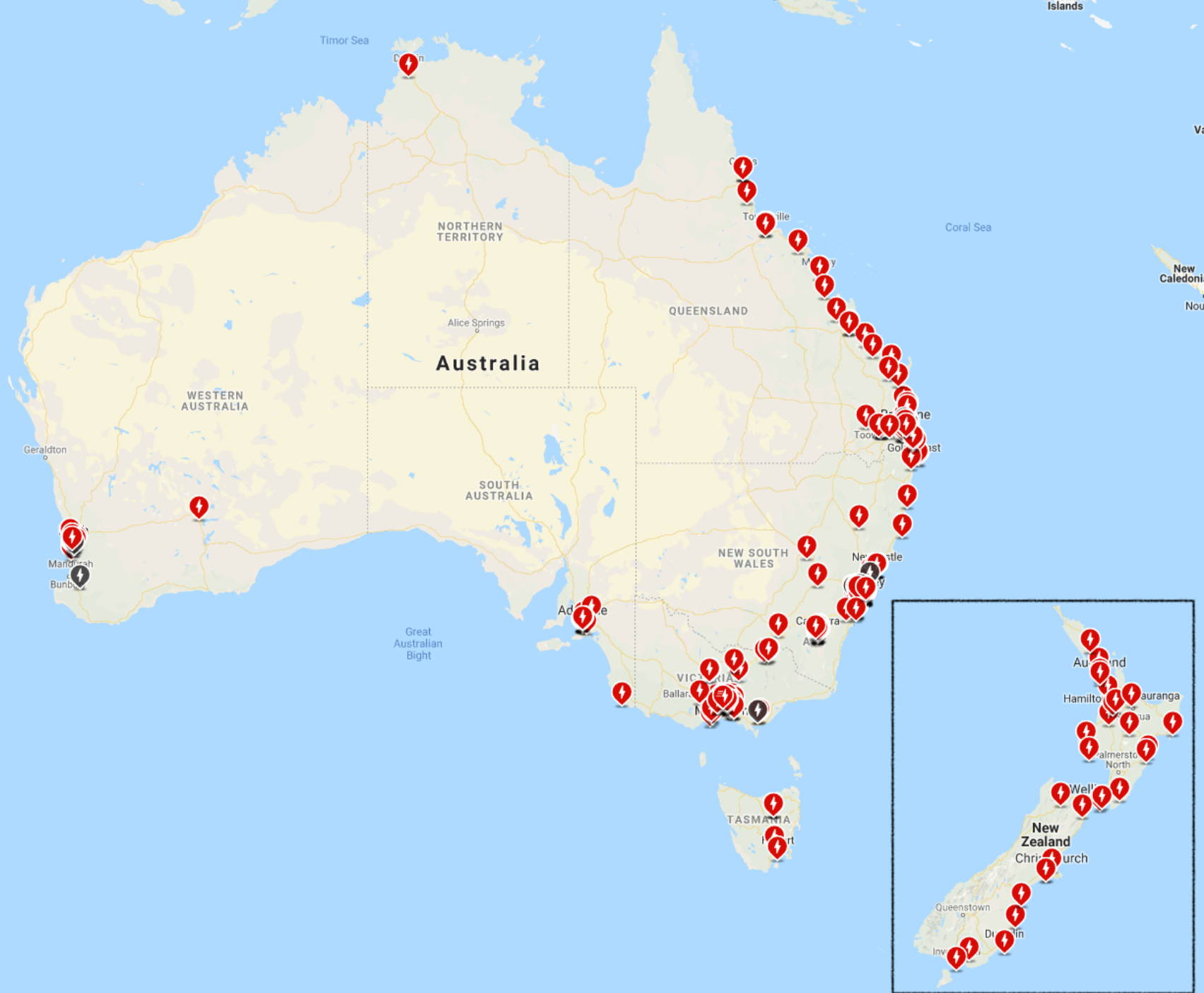
Managed network

200+ public stations.
400+ private stations.
~1,000 plugs

Largest connected
network in Australia.

~200 businesses
~2500 drivers

40,000+ sessions
350+ MWh energy



Euroa



Barnawartha North



Brisbane (Toombul)



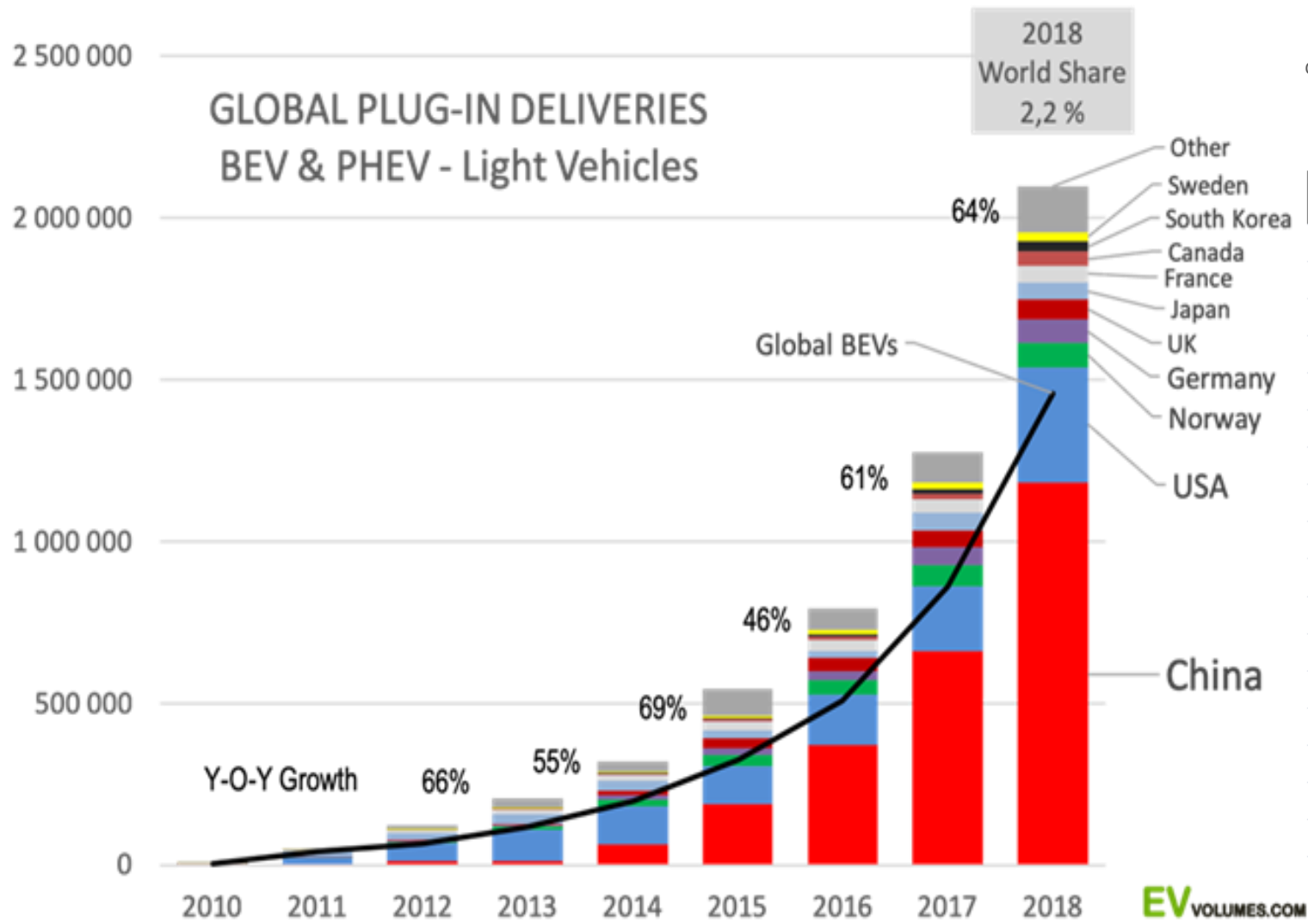
Melbourne (Airport West)



Torquay



The time is now

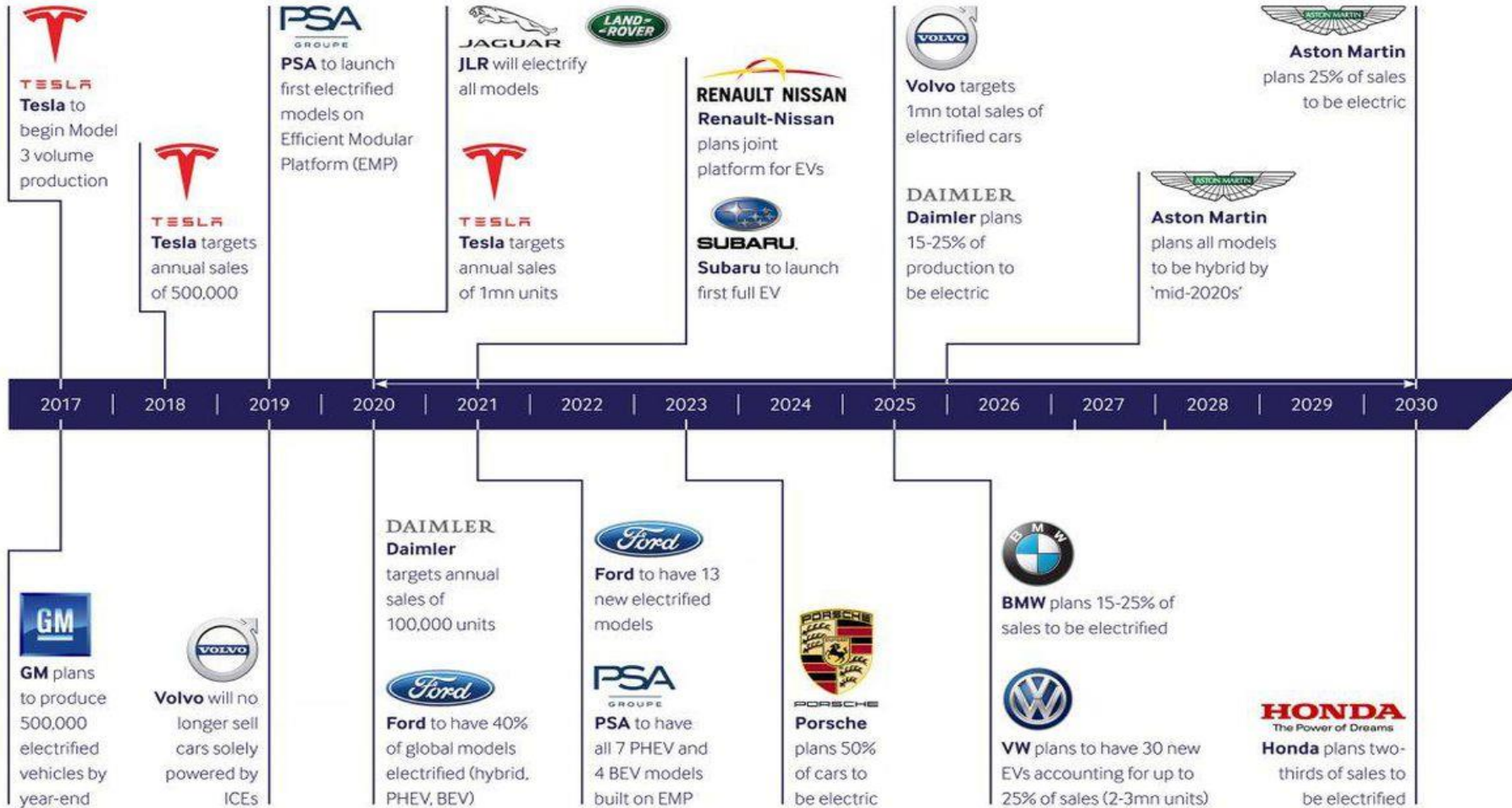


Countries Banning the sale of new ICE vehicles

Country	Ban Start Date
China	2040
Costa Rica	2021
Denmark	2030
France	2040
Germany	2050
India	2030
Ireland	2030
Israel	2030
Japan	Ongoing
Netherlands	2030
Norway	2025
Portugal	Ongoing
South Korea	2020
Spain	2040
Taiwan	2040
UK (Except for Scotland)	2040
UK (Scotland)	2032

Electric Vehicle Timeline

BMI Research
A FitchGroup Company





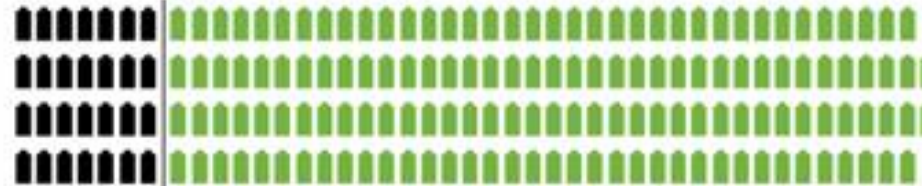
Global lithium-ion battery production capacity will increase by **521%** between 2016 and 2020.

Capacity in
2016



28
GWh

Capacity in
2020

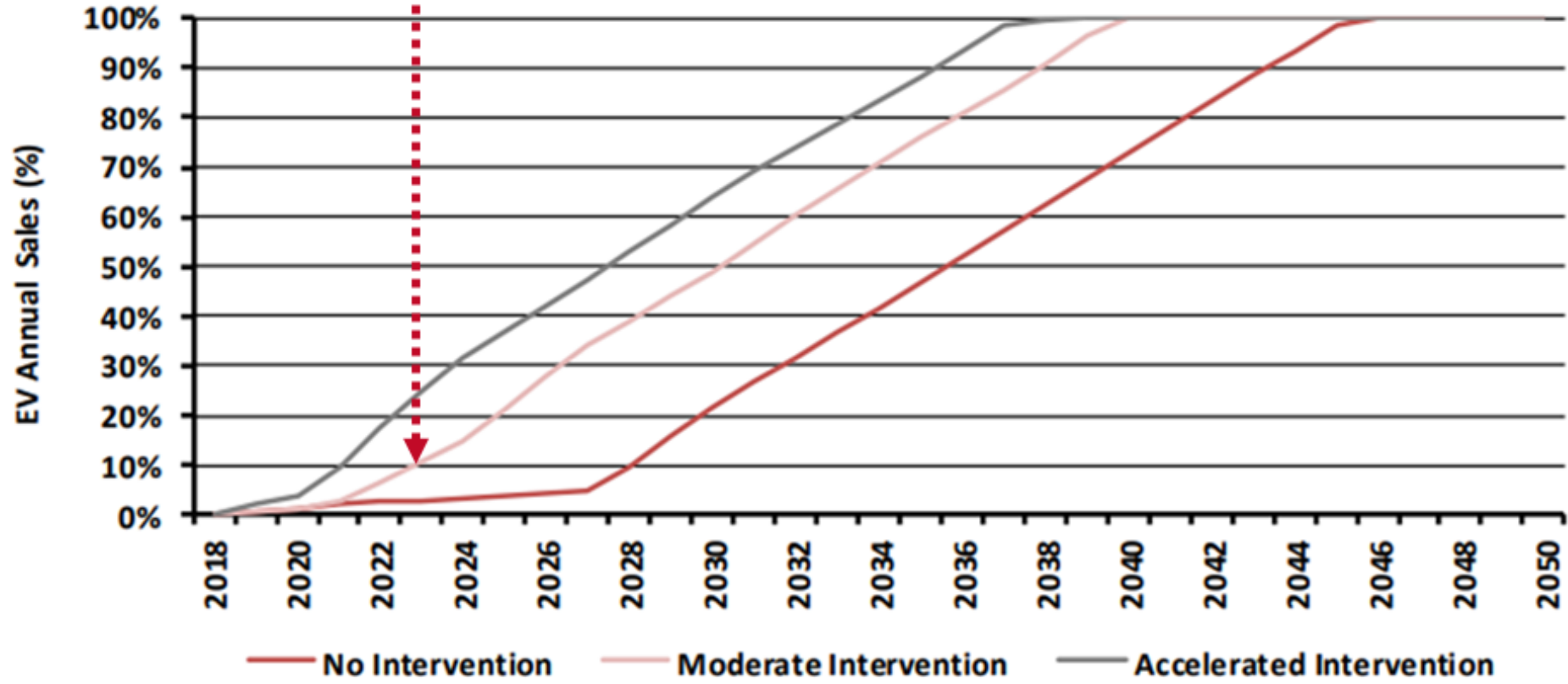


174
GWh

Source: Visual Capitalist

Annual PEV Sales

10% of market over next 5 years



Source: Australian Electric Vehicle Market Study
Energeia, ARENA, CEFC May 2018

Tesla

Tesla Model 3 was UK's third bestselling car in August

Sales of electric vehicles overall have doubled in the past year

Jasper Jolly

Fri 6 Sep 2019 00:18 AEST



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▲ Tesla, the carmaker founded in the US by Elon Musk, has been a pioneer in electric vehicle production. Photograph: Velar Grant/Zuma Wire/Rex/Shutterstock

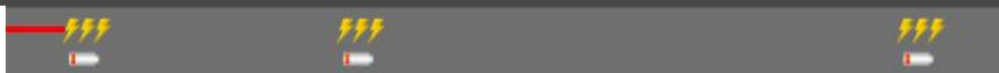
Charging for your fleet

1. Make sure you have 1:1 Charger to Station
2. Make sure the charging station is internet connected for billing
3. Might require shared DC charging for quick top ups
4. All buildings are suitable with an Energy Management System

Time



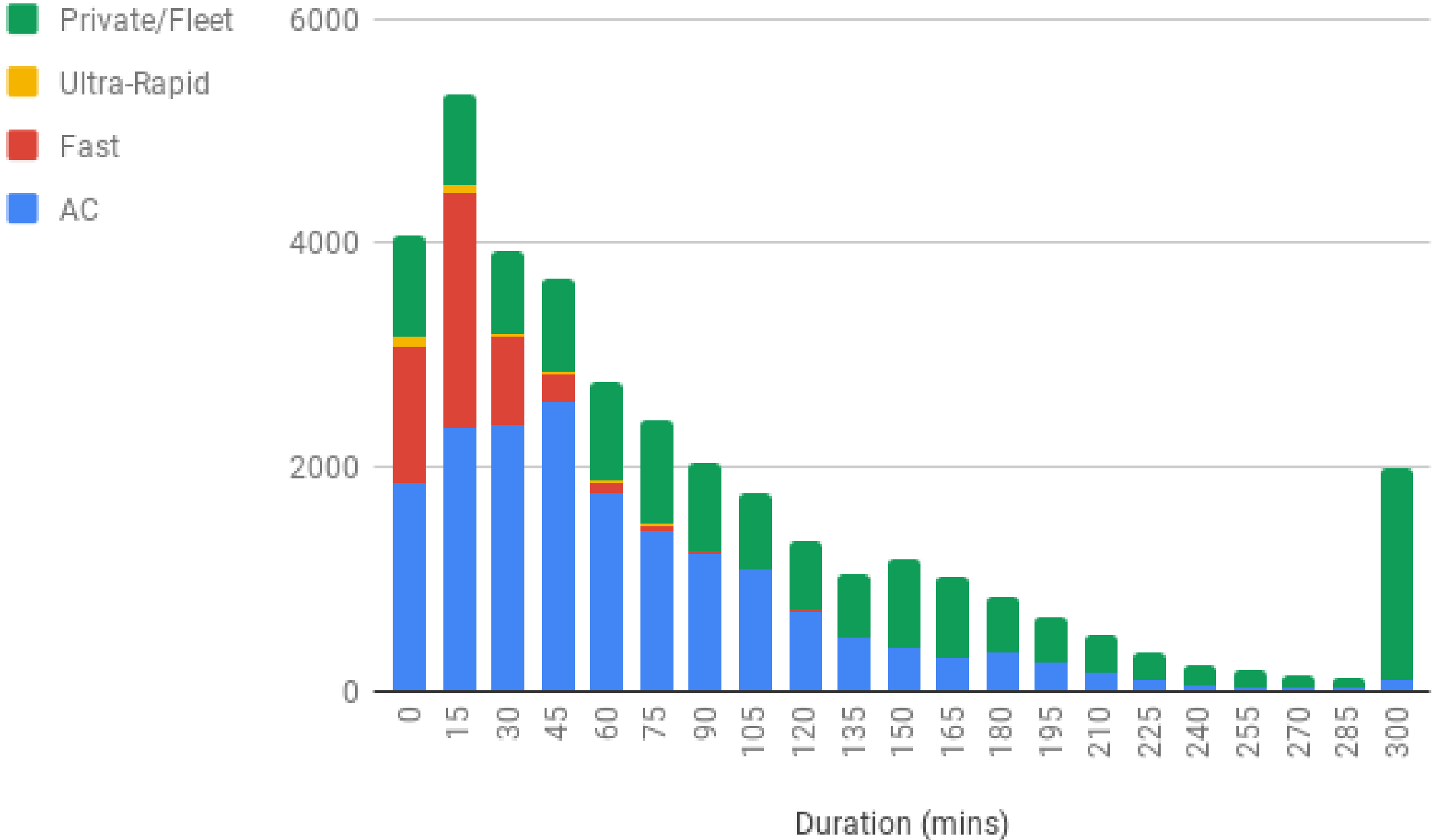
Charging rate



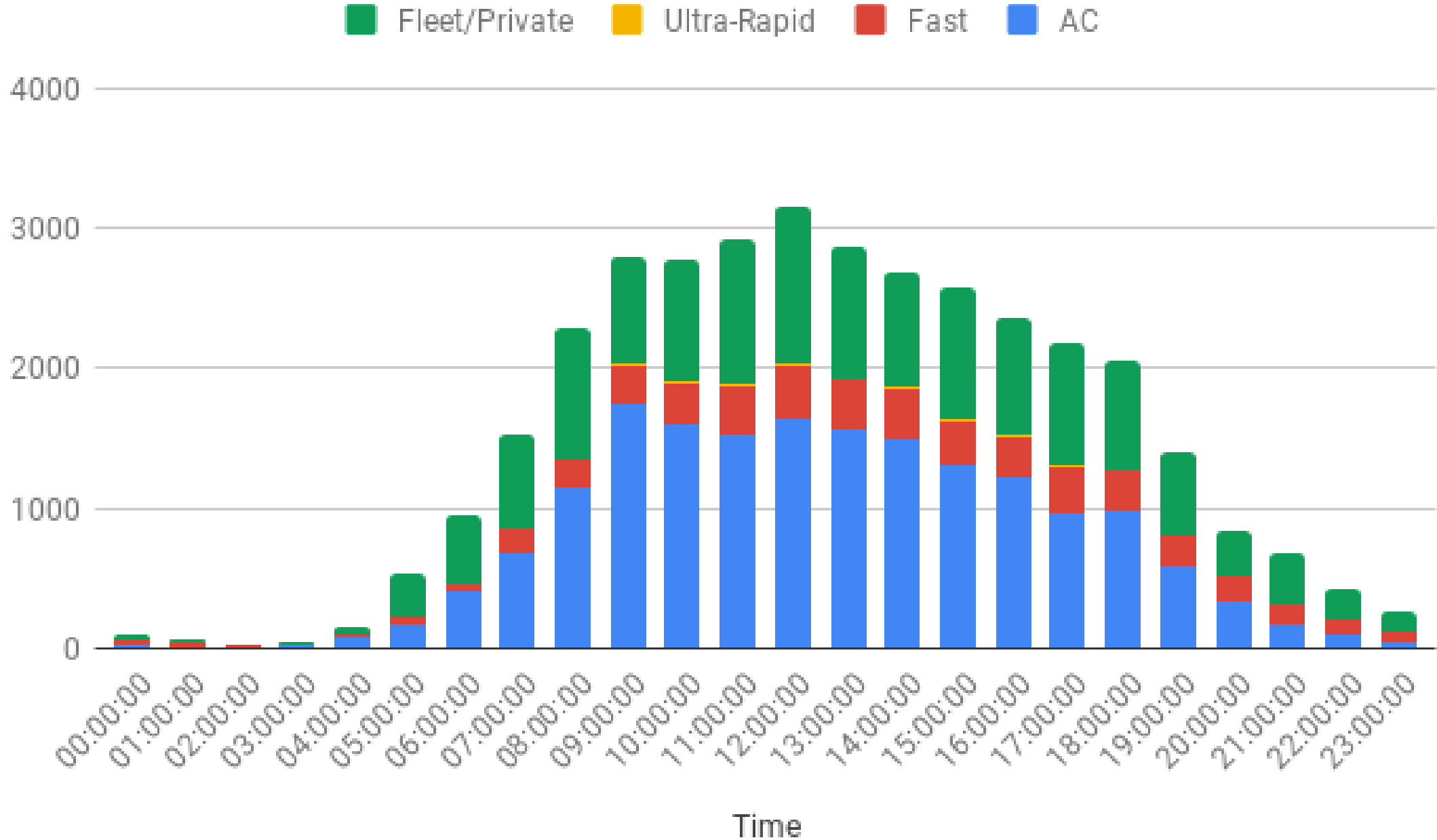
Building's current load demand



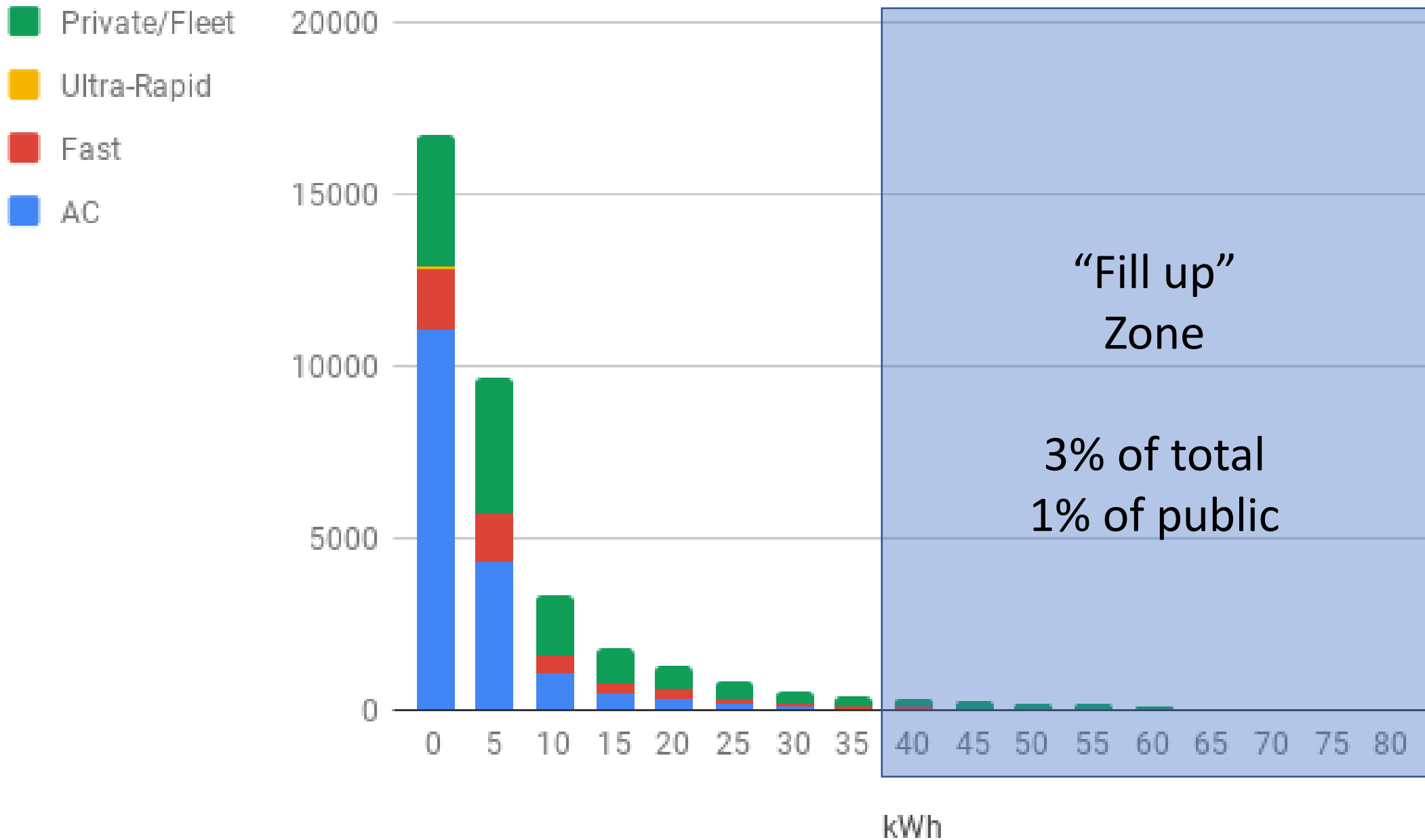
How long do people charge?



When do people charge?



How much power per session?





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EV Charging Update

Or – time is now.