



EVERTY

The background of the slide features a photograph of an electric vehicle (EV) charging station. A white charging cable is plugged into a station, and a car is partially visible in the background. The entire image is overlaid with a semi-transparent teal color. Diagonal black lines cut across the teal overlay, creating a modern, geometric design.

ELECTRIC  
VEHICLE  
**CHARGING**  
SOLUTIONS

# ABOUT US










- EVERYTY was established in 2017
- Software to charging station operators to easily monitor, manage and monetise chargers
- EV driver app to find, start/stop and pay for charging



- Founder and CEO
- Board member of the Electric Vehicle Council
- CleanTech experience (Enphase Energy)
- NABERS rating scheme









# EV CHARGING Plug Types

## CHARGING LEVELS

	LEVEL 1	LEVEL 2	Level 3
Voltage	230 Vac	230 Vac	400-1000 Vdc
Current Range	10-15a	6-80(Typical 30 A)	63-400 A
Charging Times	12-18 Hours	3-4 Hours	10-60 Minutes
Connector	 10 amp wall socket  15 amp wall socket	 Type 1 (J1772) (phased out)  Type 2 (CCS) (voluntary standard)	 CCS Combo 1 (phased out)  CCS Combo 2 (voluntary standard)  CHAdeMO (voluntary standard)
Driver Behavior	Convenience/Home Charging	Destination Charging	Transit Charging

# EV CHARGING TECHNOLOGY

## CHARGING STATIONS

	AC	DC (SLOW)	DC (FAST)
KW	7-22	25	50-350
LOCATIONS	Home, Work, Parking, Kerbside	Fleets/Depots, Dealerships	Highway, Airport, Service Station
RANGE PER HR	7KW ~40km/hour 11-22kW ~60-120km/hour	25KW ~100-150 km/hour	50kW DC ~40km/10 min 350kW DC ~400km/ 15 min
Make/Model	<div>         </div> <div>           ABB Lumina    Delta Mini Plus    Schneider Electric EVLink Parking    ABB DC Wallbox    Delta DC Wall Box    Delta Dual Quick Charger    Tritium Veefil-RT    ABB Terra Series         </div>		

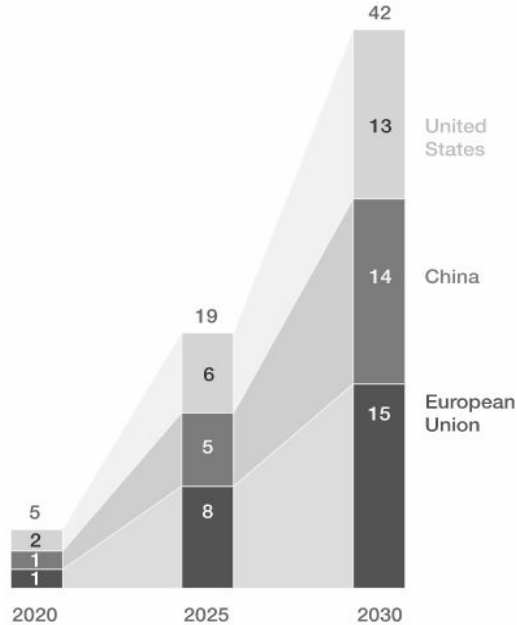
# EV CHARGING: THE NEW NORMAL





# INTERNATIONAL MARKET GROWTH

Estimated number of chargers,<sup>1</sup>  
million



**x 6.5**



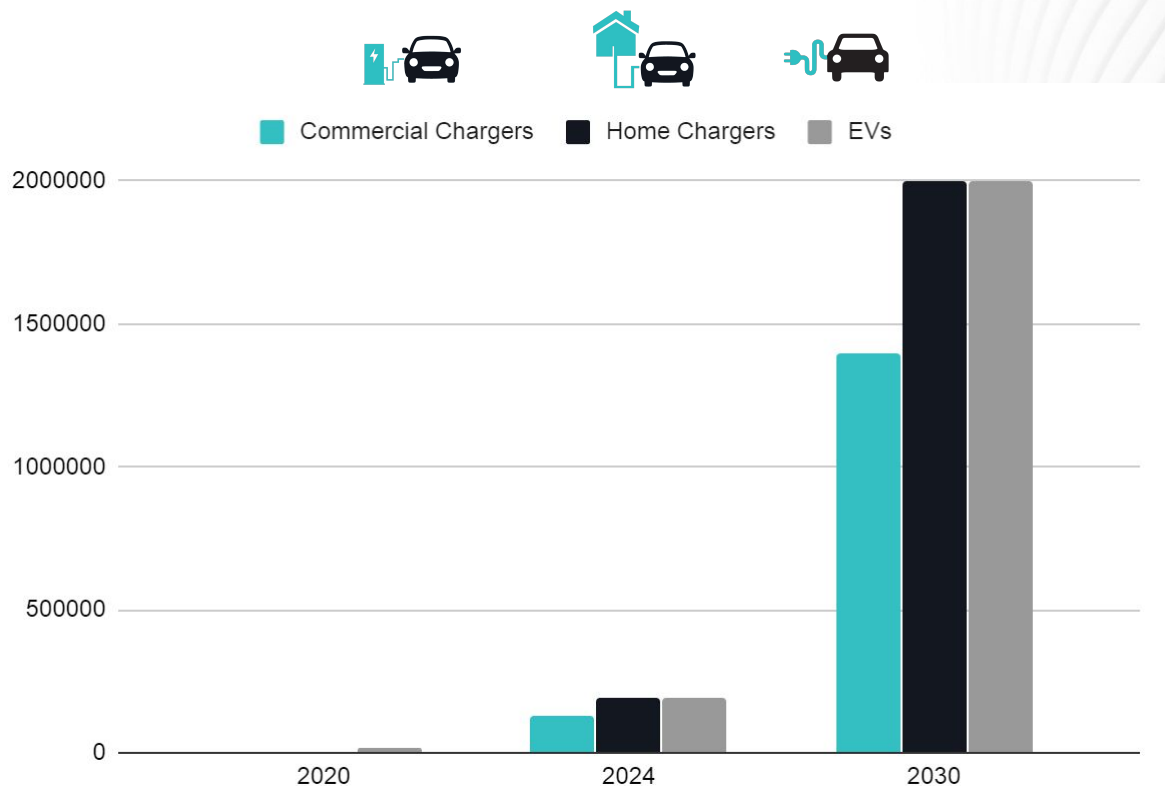
**x 14**



**x 15**

<sup>1</sup>Figures may not sum, because of rounding.

# AUSTRALIAN MARKET GROWTH



# PROBLEM AND CHALLENGES

Today

**01**

Fragmented and decentralised



**02**

Electricity constraints in buildings



Future

**03**

Grid constraints





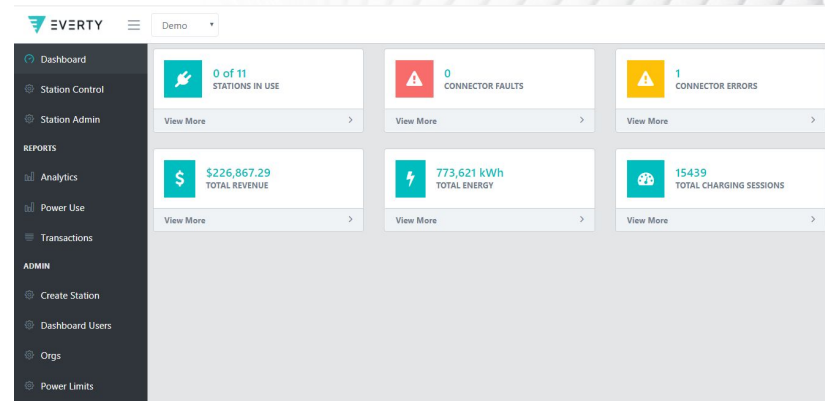
# EVERTY'S SOLUTION

## Electric Vehicle Drivers



Find + Start/Stop → Pay

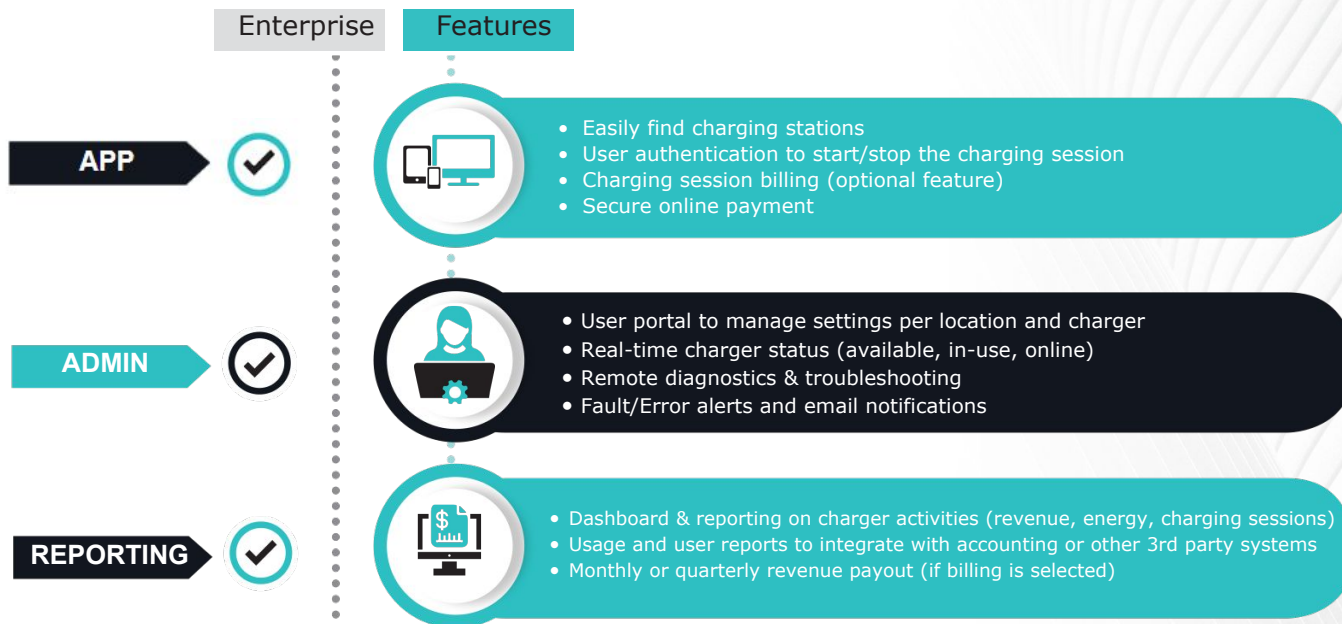
## Charging Station Operators



Charger Management Tool

# AUSTRALIAN-BUILT PLATFORM FOR COMMERCIAL CHARGER MANAGEMENT

The Every network and charging station management system is designed and developed in Australia, with a focus on addressing the needs stakeholders including drivers, charge point operators and grid operators.



# CHARGING FLOWS

## Electron flows

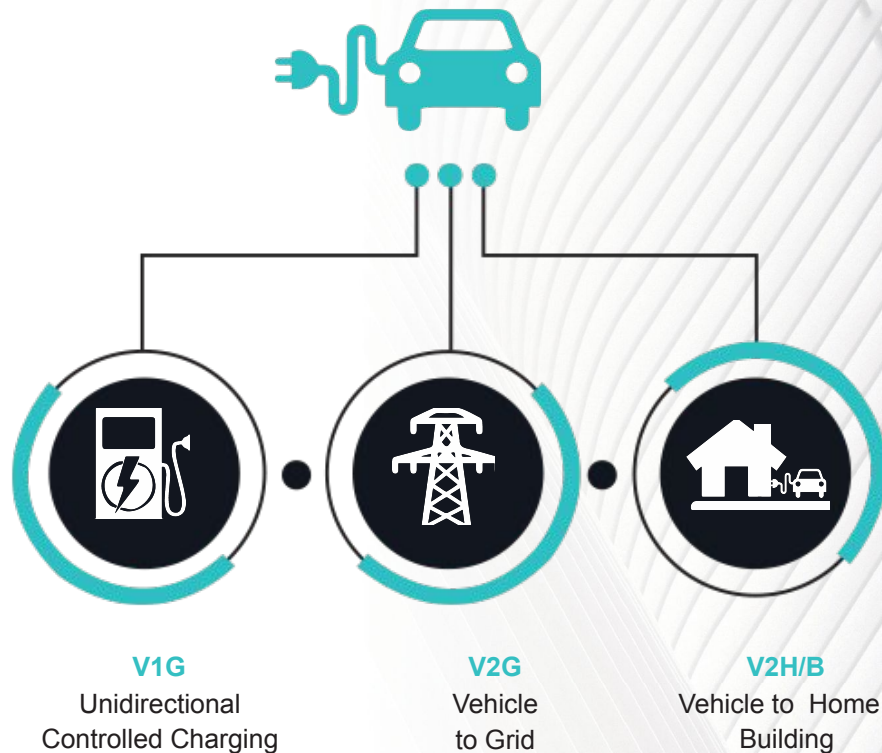
- Energy management
- V1G, V2X

## Data flows

- Session management
- Metadata

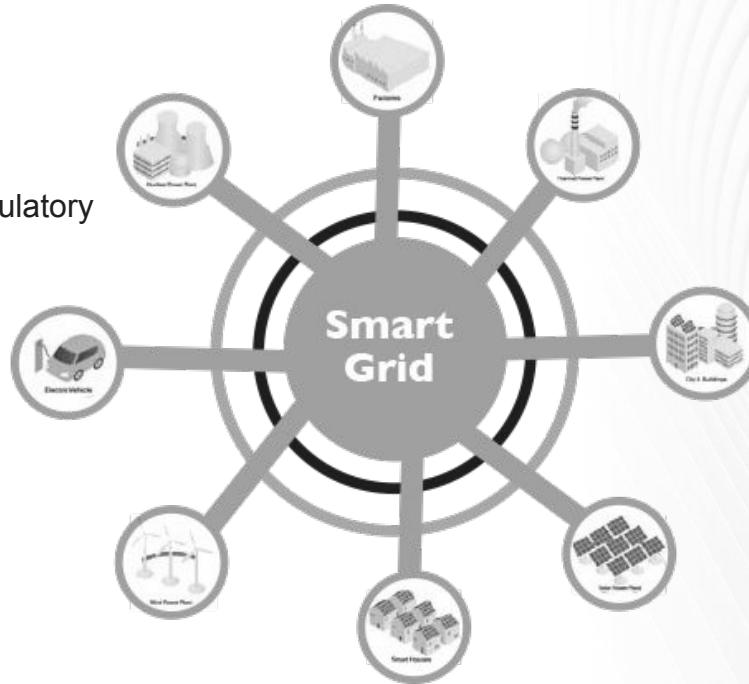
## Money flows

- Optional
- Business Model dependent



# EV ECOSYSTEM

- Environmental Issues
- Political, Standards & Regulatory
- Australian Design Rules
- Building Codes
- Transport & Parking
- Incentives
- Social Implications
- Energy



- Smart Grid
- Generation
- Transmission
- Distribution
- Storage
- Demand Management
- eMSP – eMobility Service Providers
- CPO – Charging Point Operators

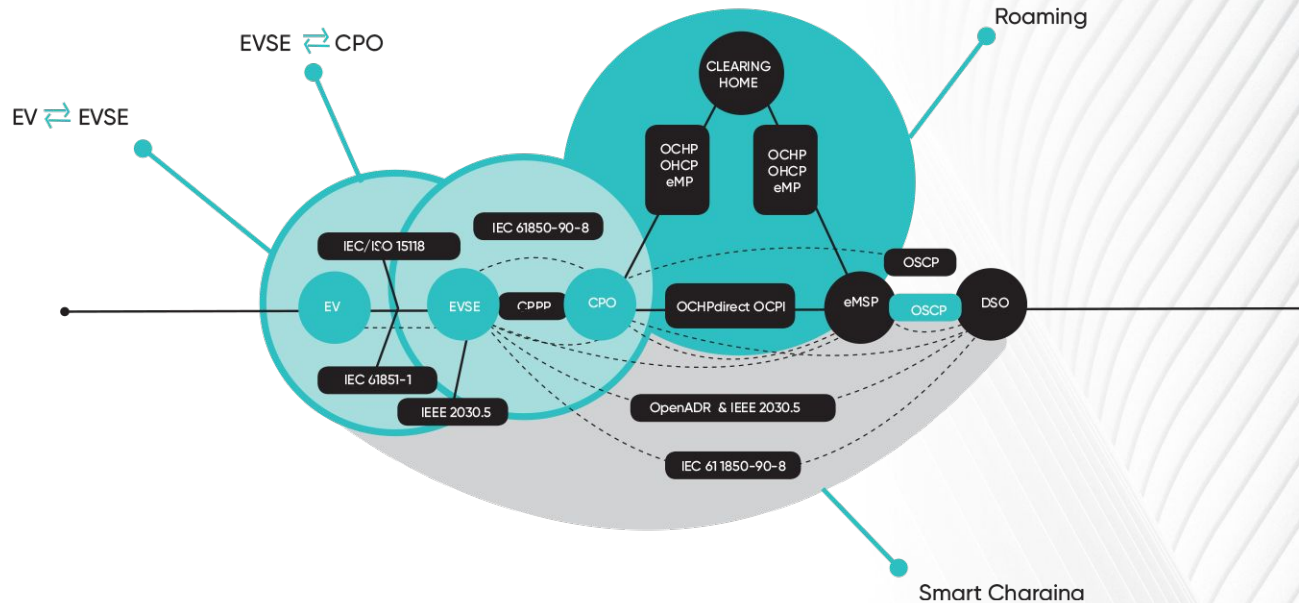
# POTENTIAL SERVICES EVS COULD OFFER THE GRID

SYSTEM FLEXIBILITY		LOCAL FLEXIBILITY	
Wholesale Market	Transmission System Operator	Distribution System Operator	Behind the Meter
<ul style="list-style-type: none"><li>• Peak shaving</li><li>• Portfolio balancing</li></ul>	<ul style="list-style-type: none"><li>• Frequency control</li><li>• Primary, secondary and tertiary reserve</li><li>• Other ancillary service (e.g., voltage management, emergency power during outages)</li></ul>	<ul style="list-style-type: none"><li>• Voltage control</li><li>• Local congestion and capacity management</li></ul>	<ul style="list-style-type: none"><li>• Increasing the rate of Renewable Energy self-consumption</li><li>• Arbitrage between locally produced electricity &amp; electricity from the grid</li><li>• Back-up power</li></ul>

THE ELECTRIC CAR BECOMES AN INTEGRAL PART OF SUSTAINABLE ENERGY SYSTEMS



# COMMUNICATION PROTOCOLS



Protocols Related to EV Charging Source: ElaadNL ([www.elaad.nl](http://www.elaad.nl))

Credit: IRENA ([www.irena.org](http://www.irena.org))



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