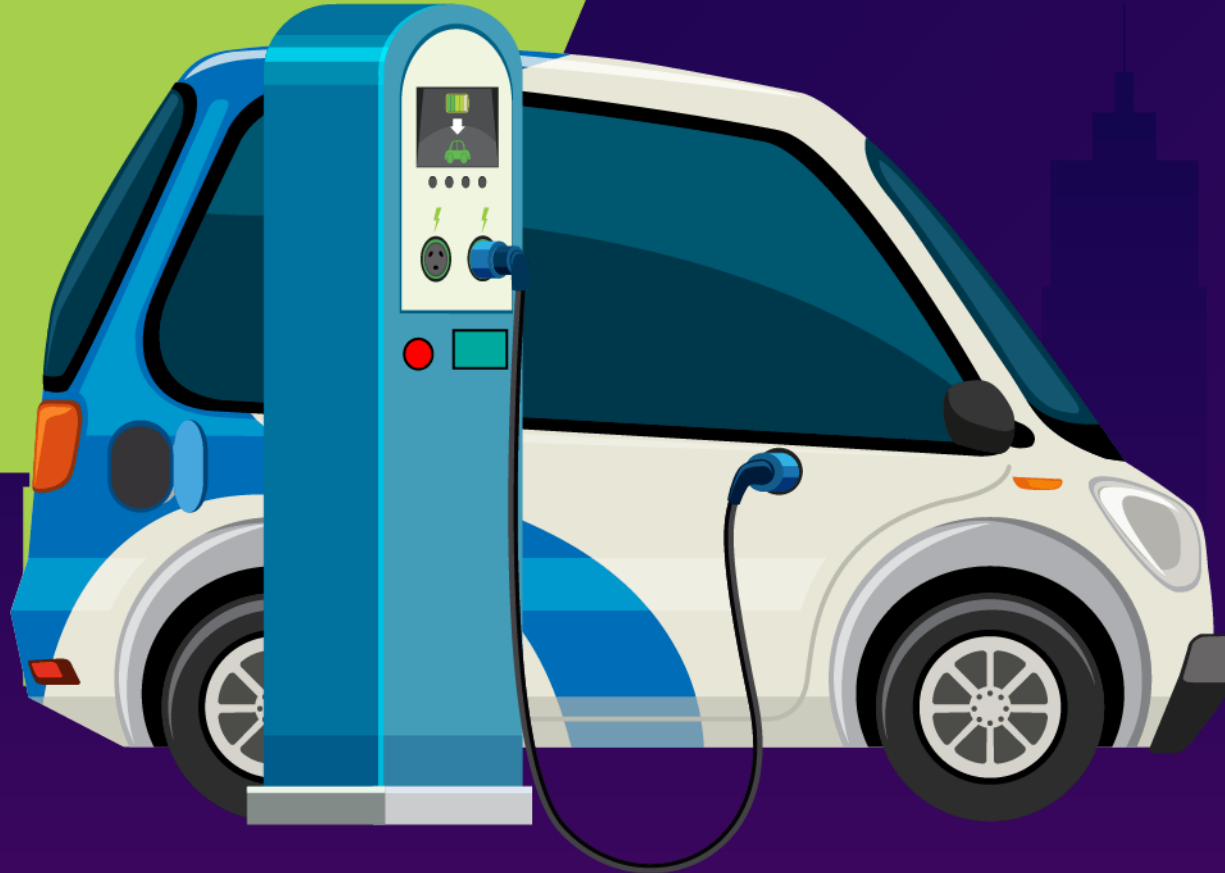
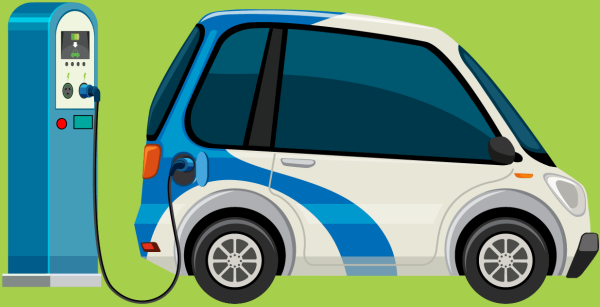


Smart EV Charger



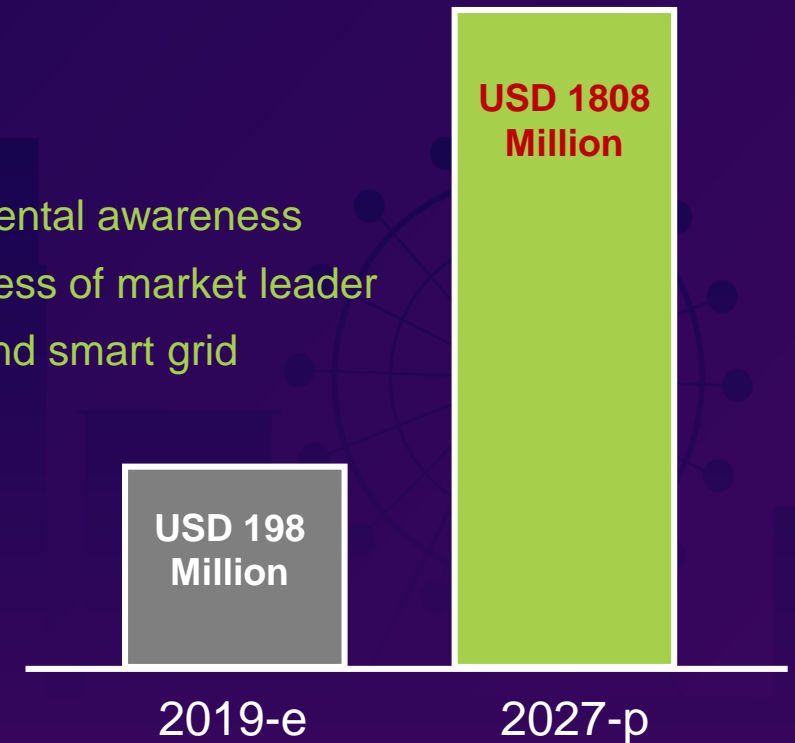


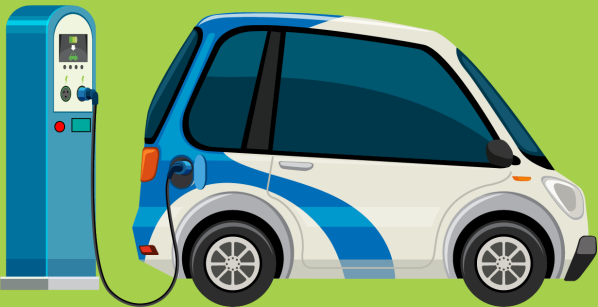
Market Overview

The electric vehicle charger market size was valued at \$3.8 billion in 2019, and is projected to reach \$25.5 billion by 2027, registering a CAGR of 26.8% from 2020 to 2027.

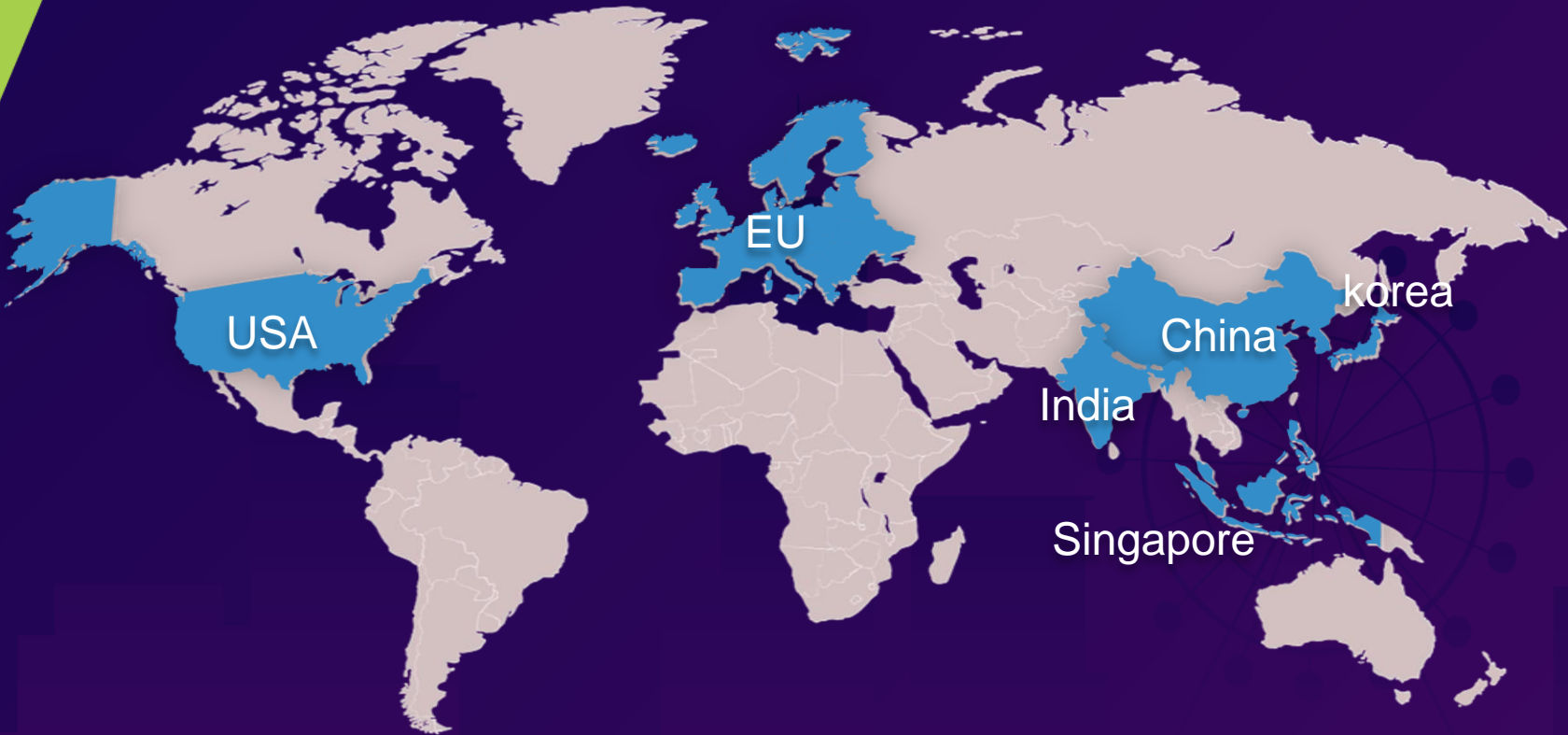
Key factors of booming market

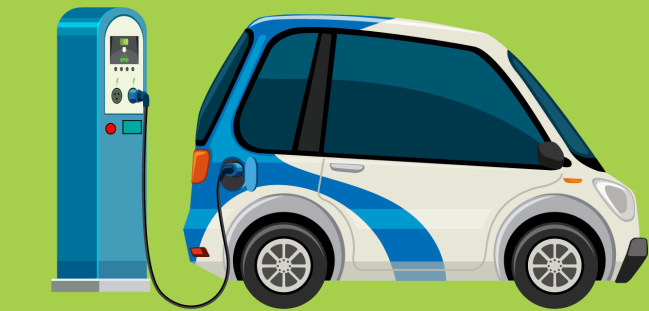
1. Tightening pollution law and Environmental awareness
2. EV technology improvement and success of market leader
3. Government policy on green energy and smart grid





Market Overview



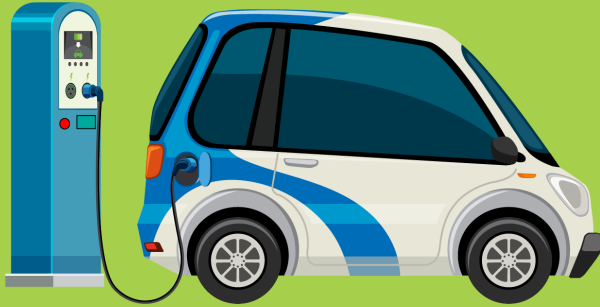


PSS- EV Charger

IEI's products are implemented in mode 3 and mode 4 charging stations in Moscow and 2 other sites of Russia and in Seoul of South Korea.



	Mode 2		Mode 3		Inductive	Mode 3
	AC-charging Wall outlet (Phased out)	AC-charging Wall outlet IC-CPD	AC-charging Wallbox	AC-Public charging station	Inductive Charging	DC-charging
Model	1	2	3		-	4
Standard		IEC 62752/UL2231	IEC 61851-1/-21/-22		IEC 61980-3	ICE 61851-23
Power Class	max 1ph 16A(3.7kW) max 3ph 16A(11kW) max 3ph 32A(22kW)		max 1ph 16A(3.7kW) max 3ph63A(43kW)		2.5kW 11kW	25kW-400kW
Connection	Schuko	Schuko	CCE		Schuko/CCE	
Communication	none	Control Pilot	Control Pilot/Power Line		Wireless	Power Line
Site		Household	Community/Enterprise		Public facility	



How does smart EV charger do?



Provide real-time information on charger status & availability



Track energy consumption



Gather data on usage patterns to improve the system



Be recognized on maps of charging stations



Recognize and invoice users



Distribute energy between vehicles



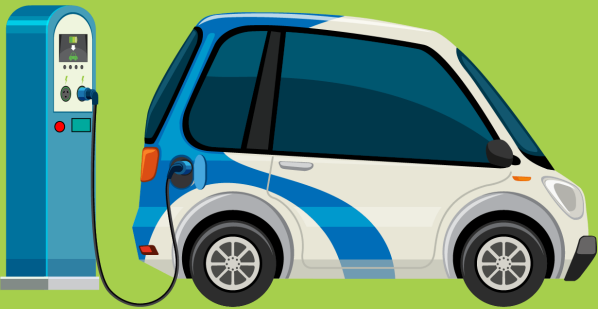
Integrate with route planning applications



Allow users to reserve charging spots



Be ready for future applications



What can IEl do to make EV Charger Smart?



NANO-ULT5	NANO-AL	uIBX-250-BW	DM-F12A
Intelligent Mode 4 EV charger	Mode 3 EV charger	Mode 3, 4 EV charger	Outdoor charger reggedised display
High speed flexible IO	Flexible extensive IO	Compact rich IO	Long
Reggedised fanless			
-20~+60C operation temperature			
High performance CPU for extensive application	Customisable -40~85C operation temperature	Longer term support	AG, anti UV coating for outdoor installation

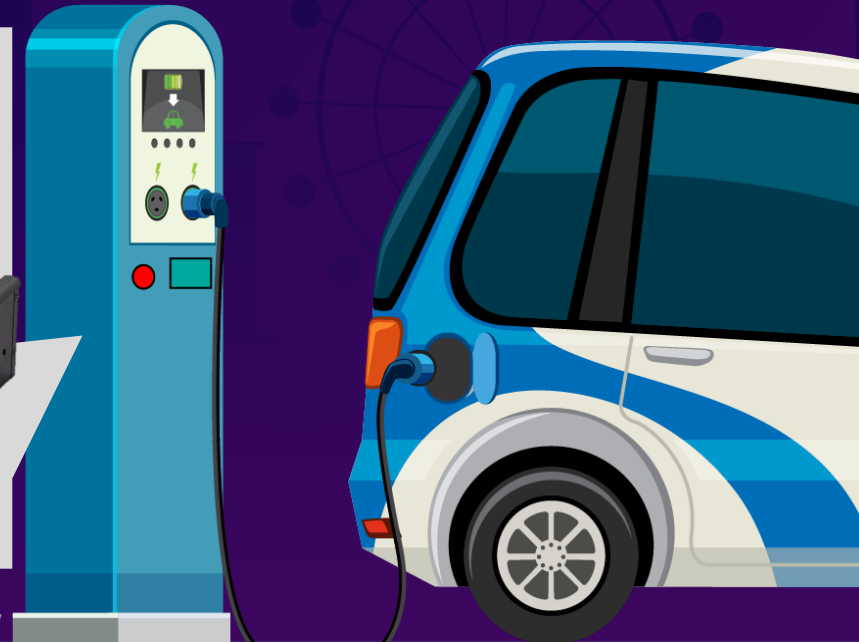
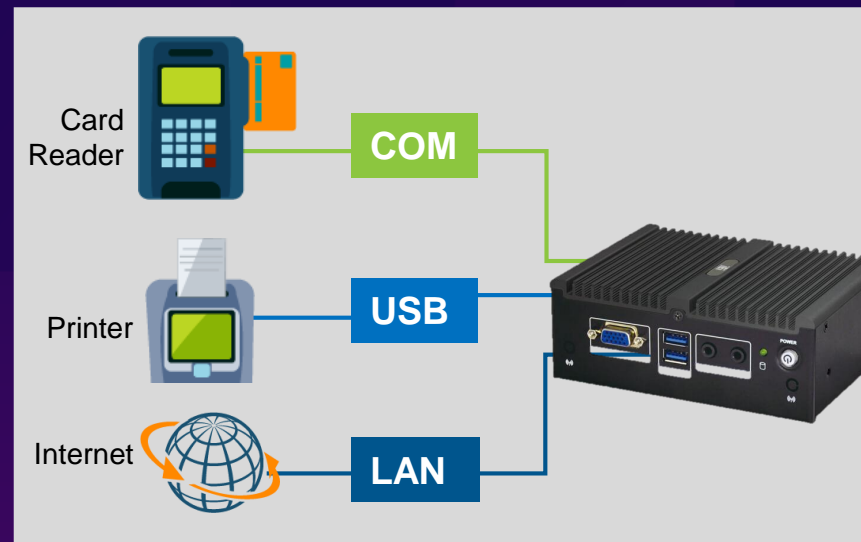
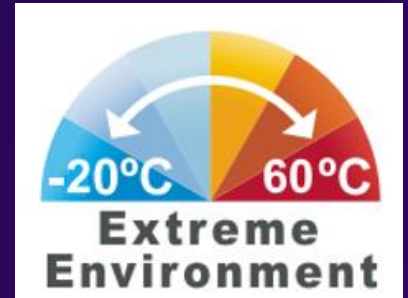


Why IEI uIBX-250-BW?

uIBX-250-BW-N3/2G

Smart charger intelligent gateway

- Compact yet powerful with Rich I/O
- Fanless ruggedised design
- Good OS support for SW customisation
- Longer term support



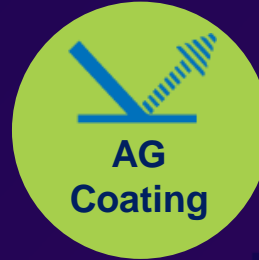
Why IEI DM-F12A?



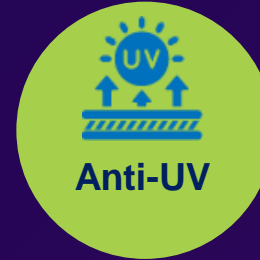
IP 65



High
Brightness



AG
Coating



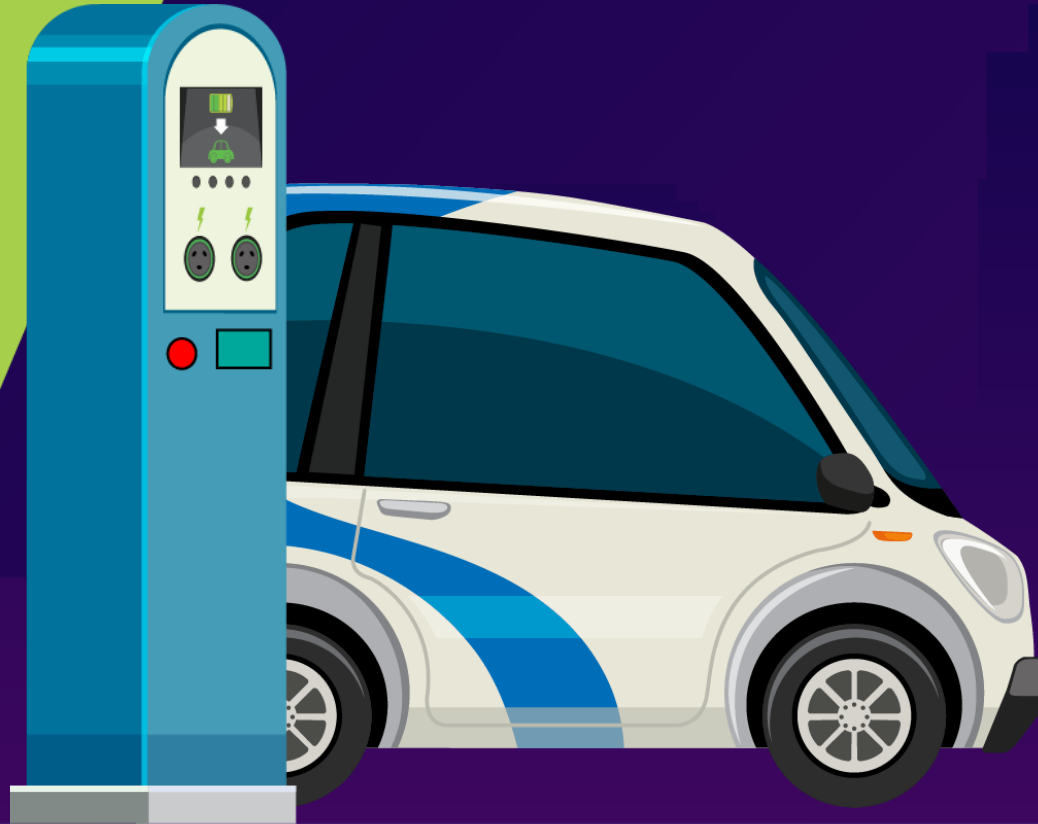
Anti-UV



7H
vandal
proof



Glove
compatible

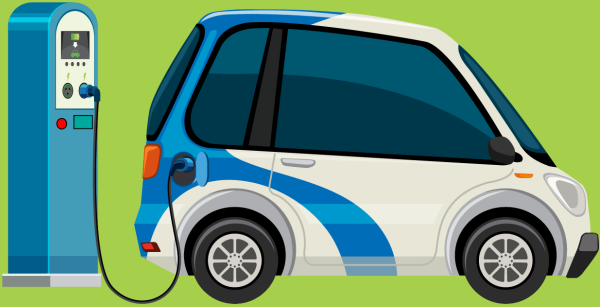


DM-F12A/R

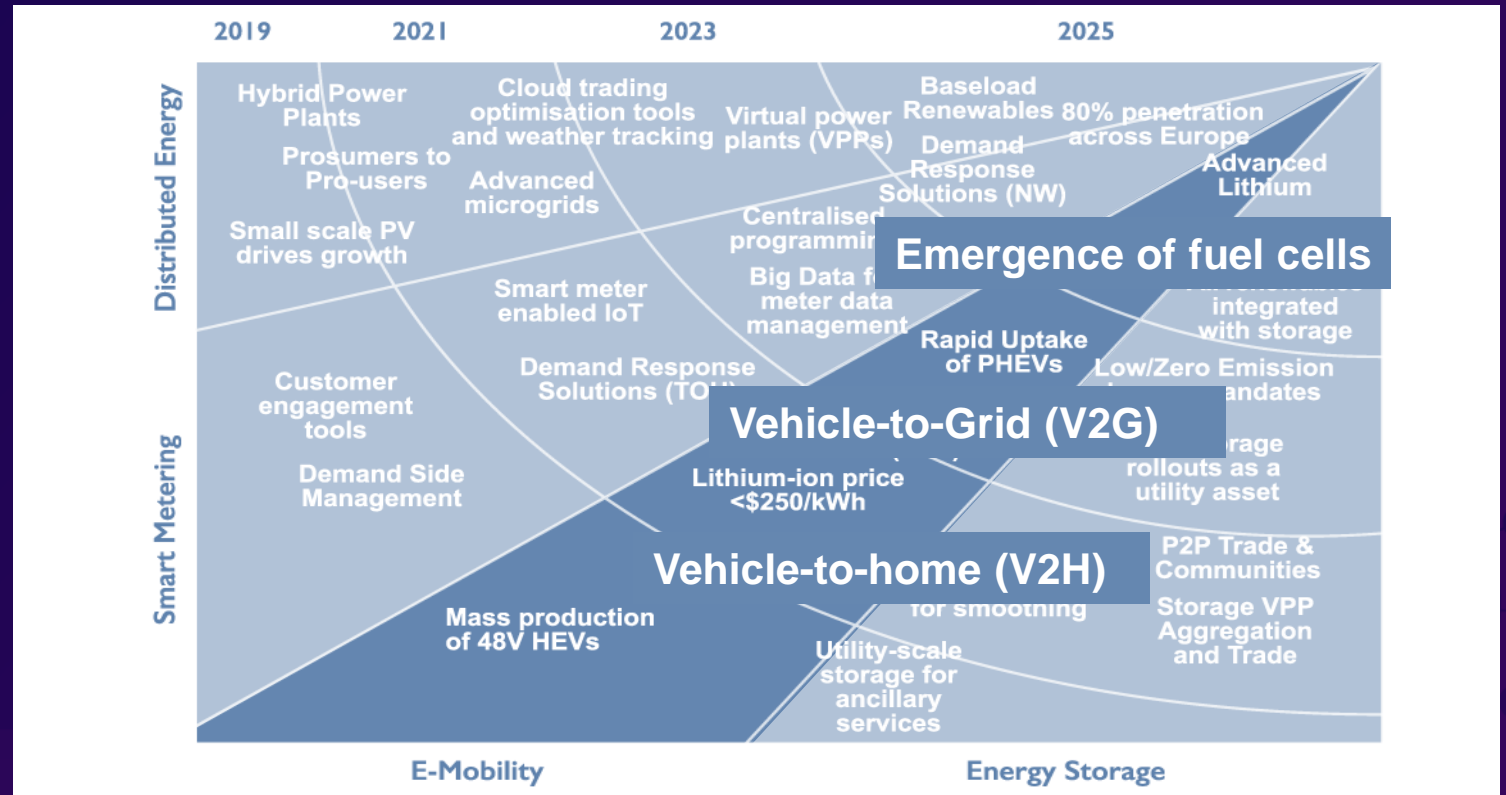
Ruggedized outdoor display

- IP65 front protection
- -20C~60C operation temperature
- Anti-glare, Anti-UV AG coating
- Vandal-proof, glove compatible touch screen

Application Story



Future Overview



What we may expect in near future:

1. V2H
2. V2G
3. Fuel cell

Upcoming future demand:

1. Intelligent EV charger
2. Interconnectivity (V2X)
3. Grid security

Contact Us

