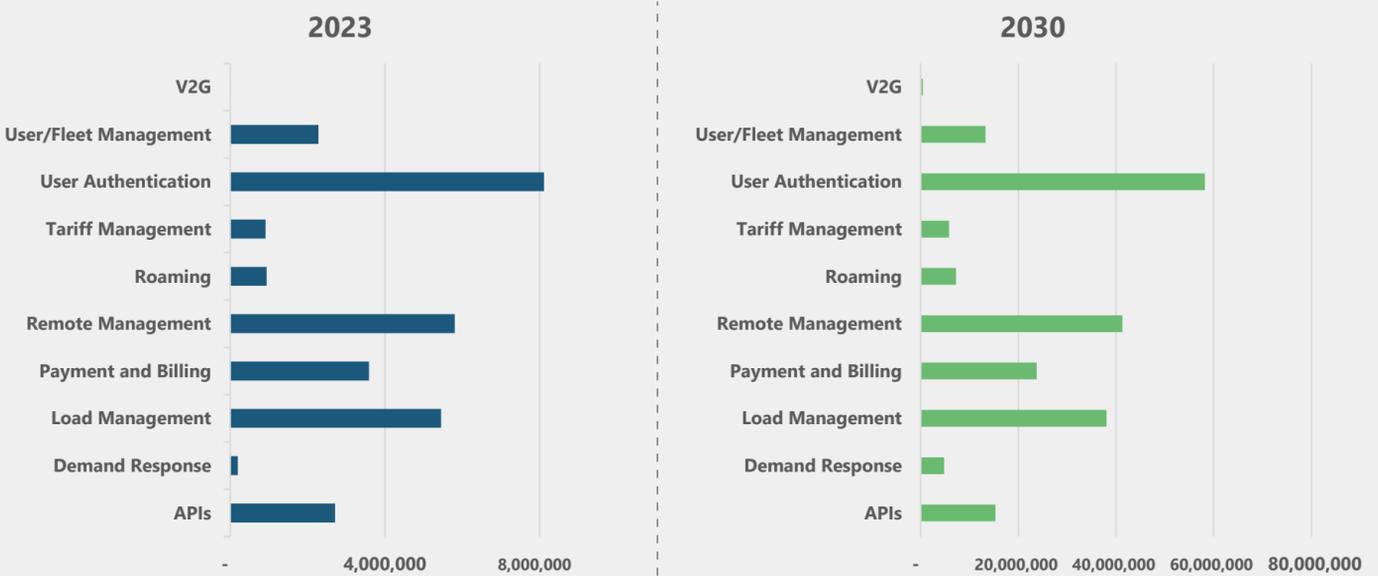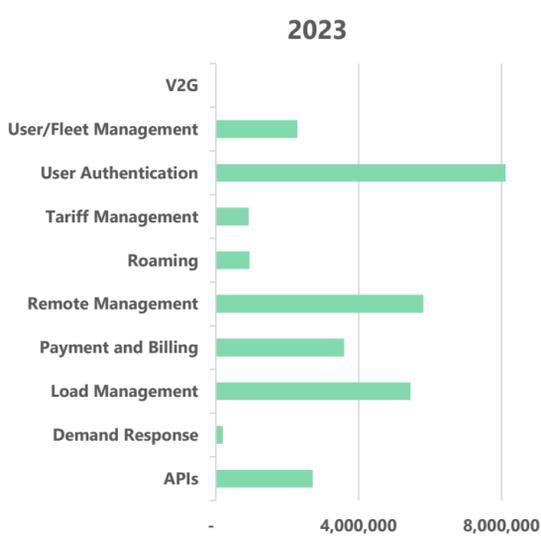# EVCI Software Technology: Regional Growth and Key Factors Driving The Success of Smart Chargers

Charge Points' Software Progression

Analysis of Software Features in Charge Points Worldwide for 2023 vs. 2030

2023

Feature	(axis: - to 8,000,000)
V2G	
User/Fleet Management	
User Authentication	
Tariff Management	
Roaming	
Remote Management	
Payment and Billing	
Load Management	
Demand Response	
APIs	

2030

Axis: - to 80,000,000 (20,000,000 / 40,000,000 / 60,000,000)

Analysis of Software Features in Charge Points Worldwide for 2023

2023

Axis: - to 8,000,000 (4,000,000)

- User Authentication is the most dominant feature, prevalent in majority of the charge points, where as V2G is an emerging technology with few projects now. V2G is expected to increase in the longer run to regulate the grid constraints as soon as the grids are stable enough to cater with this emerging technology.
- Demand Response feature is another feature that is expected to flourish in future and enable the chargers to be ready pre-hand for any uncertain dynamics.
- Load management, Remote management and Application Programming Interfaces (APIs) are other features present in decent abundance amongst the charge points.

Revenue 2023 (Millions USD)

■ Workplace ■ Depot ■ Destination ■ En-Route ■ Residential
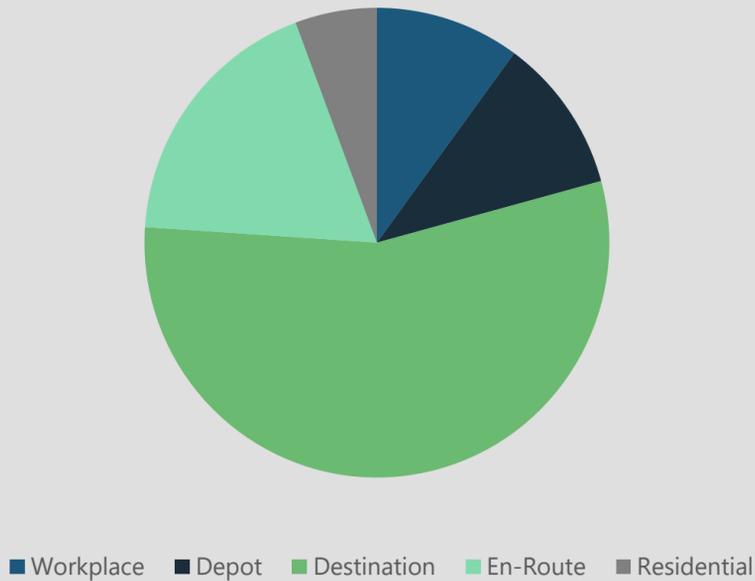
Key Development Factors

Dominance of Features and Factors Transitioning Towards Smart Chargers

The market for smart electric vehicle chargers is expected to grow significantly in the next decade. This is due to the increasing popularity of electric vehicles and the need for more efficient and intelligent charging solutions. Smart chargers offer advantages over traditional chargers, including real-time monitoring, remote accessibility, and integrated payment systems.
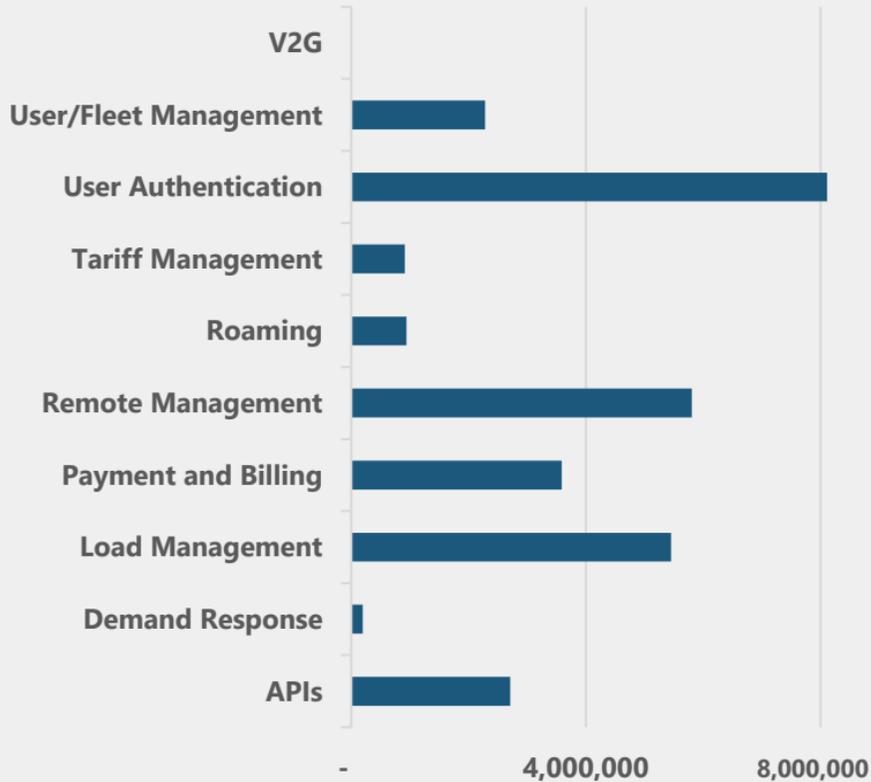
The software market for smart EV chargers is also expected to grow significantly. This is due to the fact that smart chargers require a lot of software to function. The UK is one of the first countries to mandate the exclusive deployment of smart chargers.

Smart chargers are becoming increasingly popular in destination locations, such as businesses and public places. This is because these locations can benefit from the advanced software features that smart chargers offer, such as mobile app integration, optimized scheduling, and flexible payments.
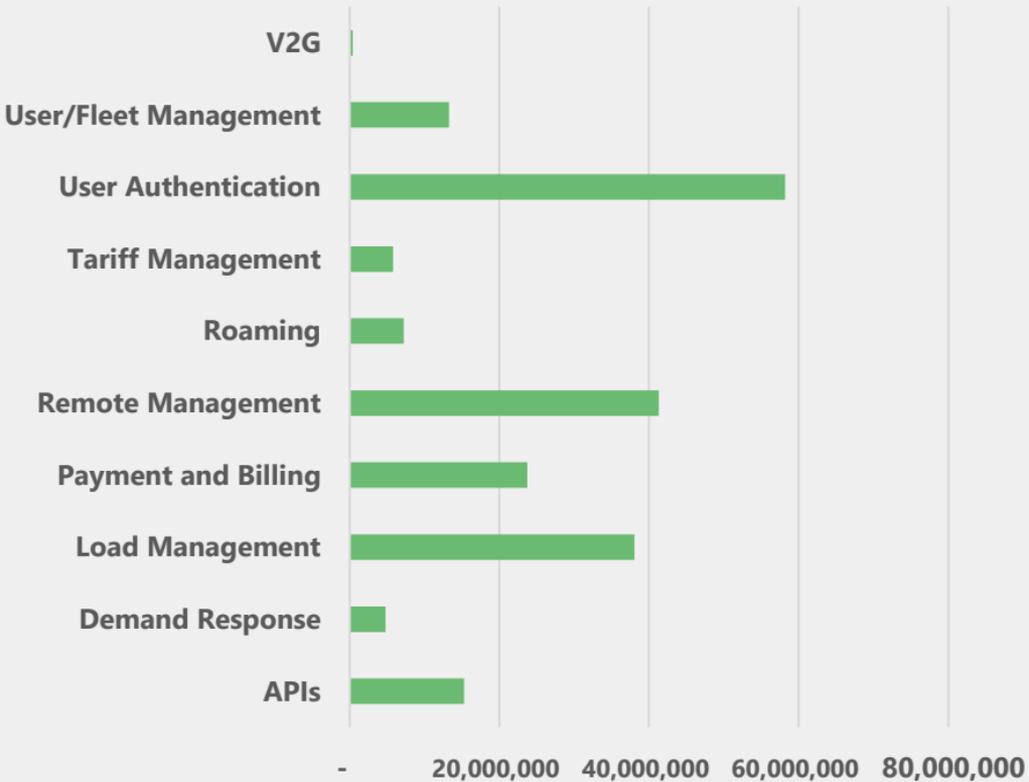
Workplace and route locations, such as highways and gas stations, are also expected to see an increase in the use of smart chargers. This is because these locations can benefit from the advanced software features that smart chargers offer, such as load management and remote management.

In the future, we can expect to see more smart chargers being installed in homes. This is because smart chargers offer a number of advantages over traditional chargers, such as demand response and load management. Vehicle-to-Grid (V2G) and Vehicle-to-Home (V2H) smart EV chargers allow electric vehicles to be used as mobile energy storage units. This means that electric vehicles can be used to power homes during peak demand or outages.

2023

Category	Value (approx.)
V2G	—
User/Fleet Management	
User Authentication	
Tariff Management	
Roaming	
Remote Management	
Payment and Billing	
Load Management	
Demand Response	
APIs	

Axis labels: -, 4,000,000, 8,000,000

2030

Category	Value

Horizontal bar chart titled "2030" with the following categories (top to bottom): V2G, User/Fleet Management, User Authentication, Tariff Management, Roaming, Remote Management, Payment and Billing, Load Management, Demand Response, APIs. The x-axis ranges from - to 80,000,000 in increments of 20,000,000.

2023

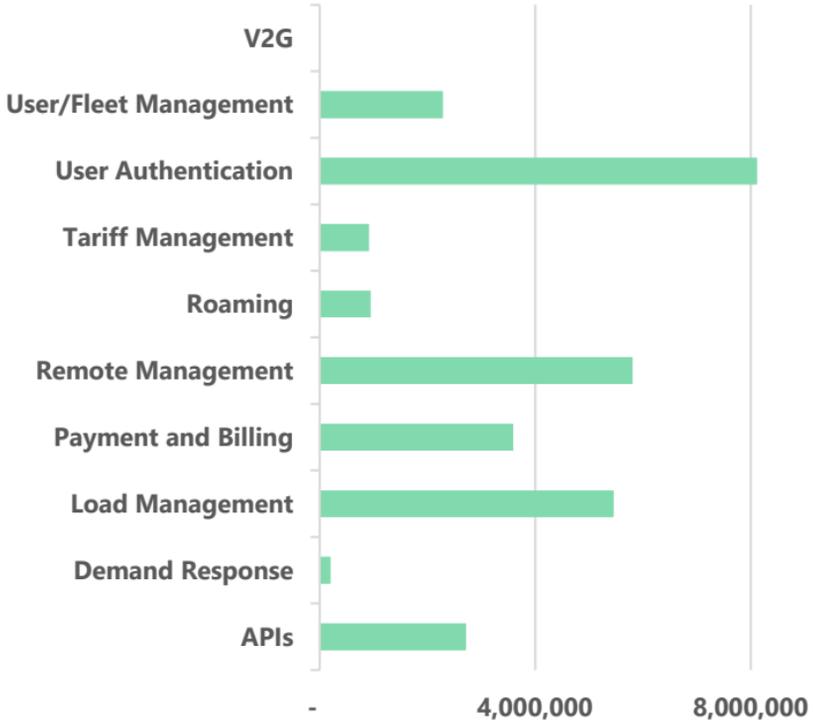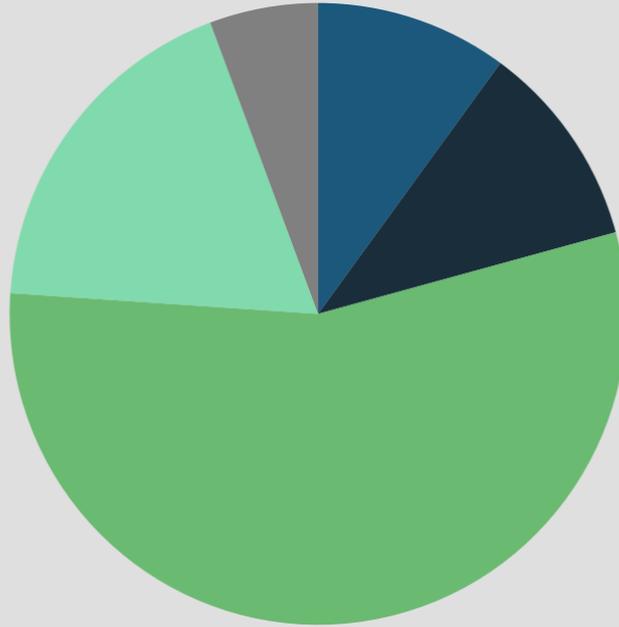| Category	Value
V2G	
User/Fleet Management	
User Authentication	
Tariff Management	
Roaming	
Remote Management	
Payment and Billing	
Load Management	
Demand Response	
APIs	

Horizontal axis: - , 4,000,000 , 8,000,000

Revenue 2023 (Millions USD)

Workplace ■ Depot ■ Destination ■ En-Route ■ Residential