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Electric Vehicle Charging Solutions

EV Charging Network
Assessment of August 2025 in Türkiye (*The 13th edition)*

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Overview

The electric vehicle (EV) charging infrastructure in Türkiye is **expanding rapidly** to accommodate the growing adoption of EVs.

This report comprehensively analyzes **key metrics** related to EV charging stations, the number of sockets, power capacity, sectoral distribution, the number of sold EVs, and growth trends over the past year. **In addition**, it provides detailed insights into the monthly electricity consumption data of charging operators and the overall electricity consumption trends by month, offering a holistic view of how energy demand in the EV charging sector is evolving.

The data presented aims to **benchmark** the state of the EV charging network, compare key milestones, and project future **growth**.

For more information, you can visit our "Data Sharing Platform"

https://data-sharing-web-app.evcify.com

Executive Summary

- **Demand Surge:** The July 2025 report highlights a record-breaking surge in EV charging demand: more than **45 million kWh** consumed in a single month.
- **Infrastructure Growth:**
  - By August 2025, the total number of sockets reached **34,222**:
    - **19,639** AC sockets
    - **14,583** DC sockets
  - During August alone, **1,505 new sockets** were added.
  - Boğaziçi Elektrik Dağıtım A.Ş. leads with the **highest** number of installed sockets (**6,293**).
  - Uludağ Elektrik Dağıtım A.Ş. holds the **largest** installed power capacity (**317,837.1 kW**).
- **Consumption Split (July 2025):**
  - **DC charging accounted for 87%** of total electricity consumption.
  - **AC charging accounted for 13%.**

→ Demonstrating the dominance of fast and ultra-fast charging in shaping the market.

Executive Summary

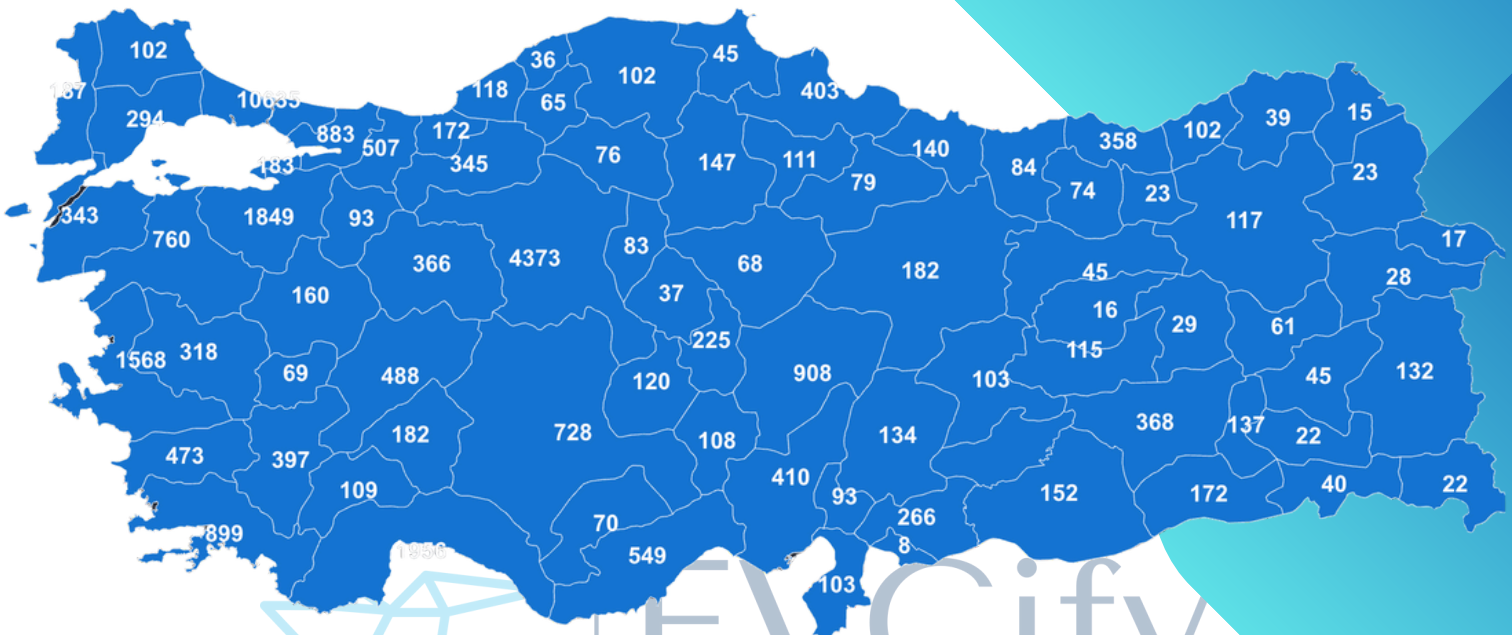
- **Efficiency by Technology:**
  - Slow Socket (≤22kW): **14 EVs per socket**, **1.31 kW/EV**
  - Fast Socket (>22kW, ≤150kW): **34 EVs per socket**, **2.72 kW/EV**
  - Ultra-Fast Socket (>150kW): **45 EVs per socket**, **4.63 kW/EV**

  → Underlining the strategic importance of **high-power infrastructure**.
- **Market Penetration (TÜİK):**
  - EV sales in July 2025: **23,623 units**
  - Cumulative Jan–Jul 2025 sales: **105,757 units**
  - Total EV stock in Turkey: **289,582 vehicles**
- **Operator Concentration:**
  - In July 2025, **the Top 10 CPOs consumed 35,105 MWh**, representing **76.96%** of total demand.

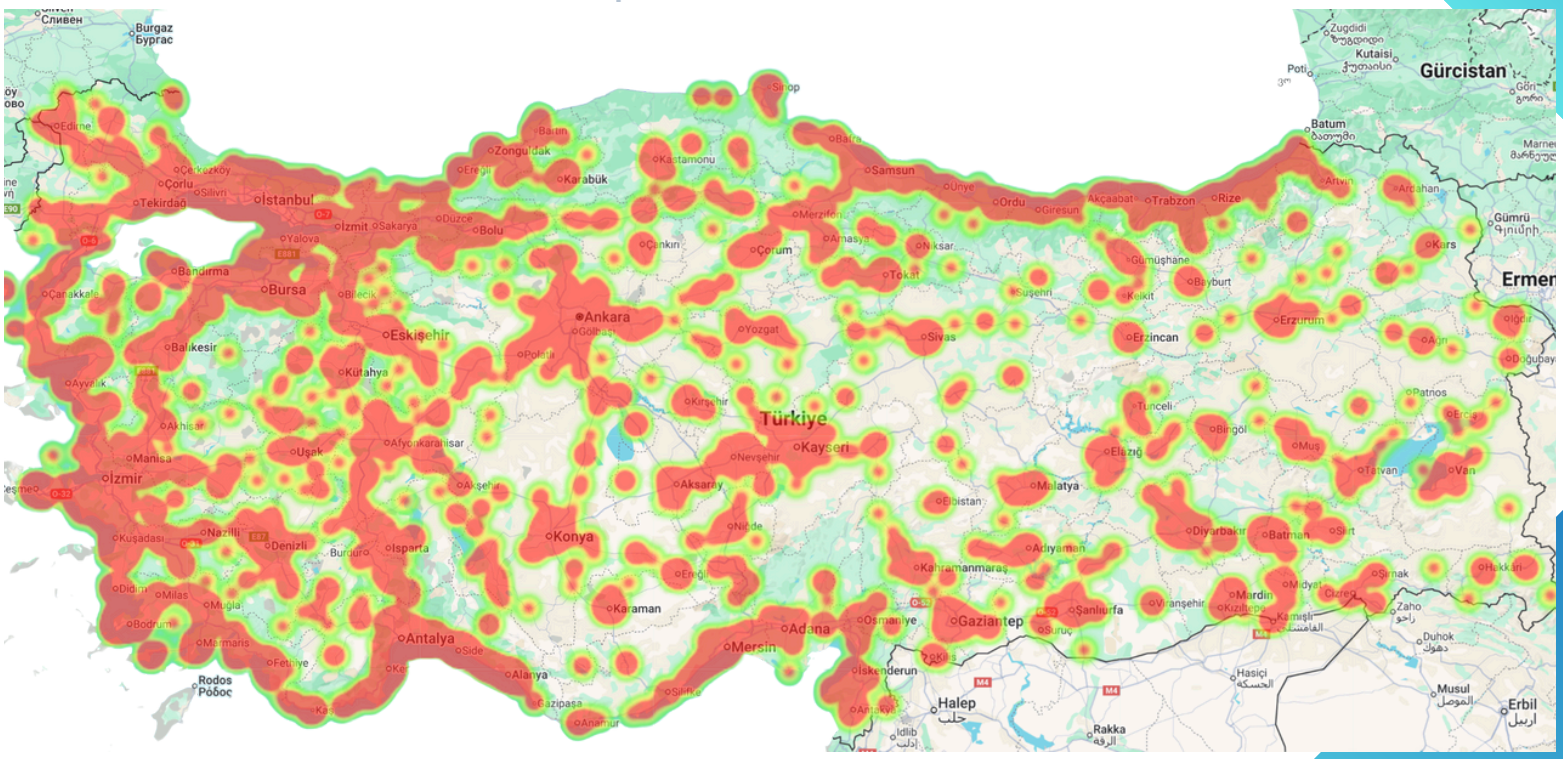
  → The market is **highly concentrated among leading operators**, signaling ongoing consolidation.
- **Regional Concentration:**
  - In July 2025, the **Top 10 provinces** consumed **29,784 MWh**, covering **65.26%** of total demand.

  → EV charging demand is still **heavily concentrated in metropolitan areas**, highlighting growth potential in secondary regions.

Map & HeatMap



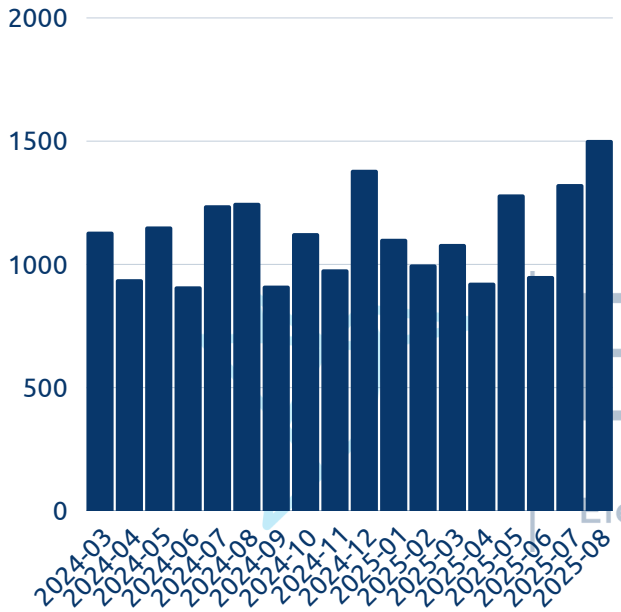
Number of Total AC/DC Sockets



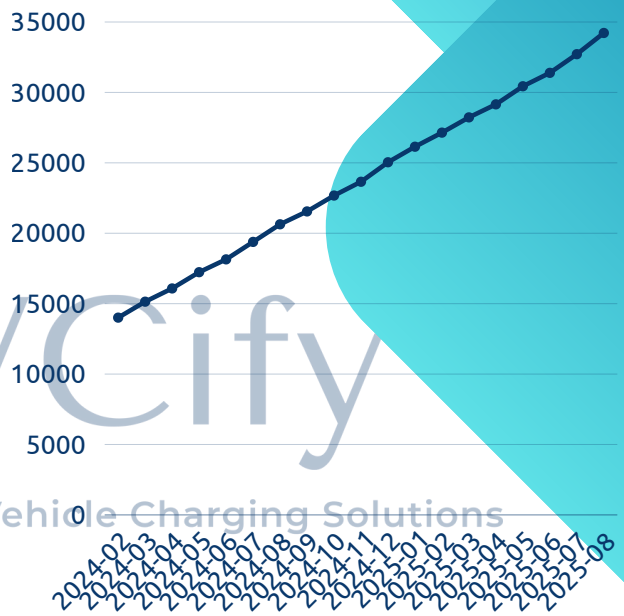
Heatmap

Number of Sockets in Türkiye

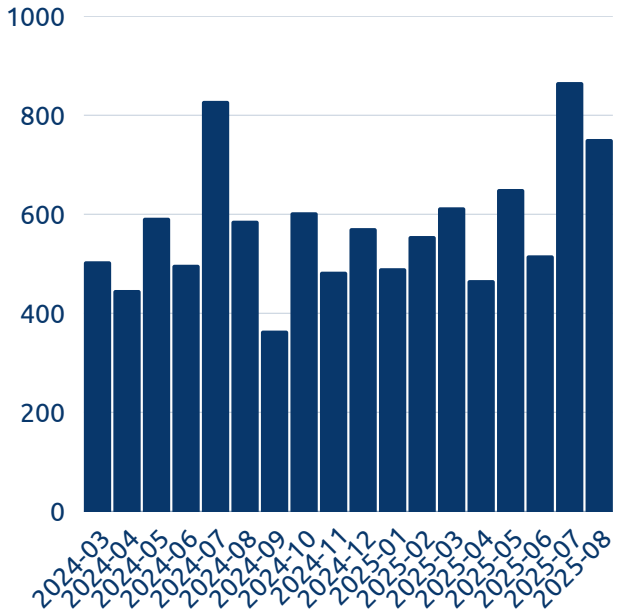
Total Socket Power (GW)	Total Number of Sockets	Total Number of AC Sockets	Total Number of DC Sockets
2.506	34.222	19.639	14.583



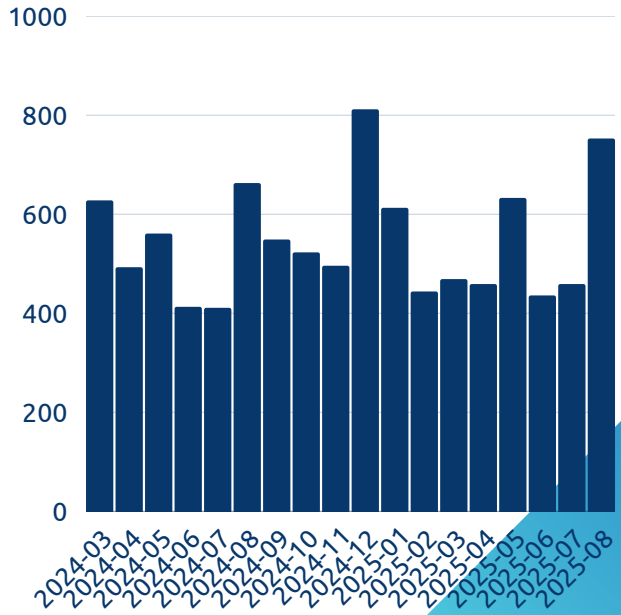
Number of Total Sockets



Cumulative Number of Total Sockets



Number of AC Sockets

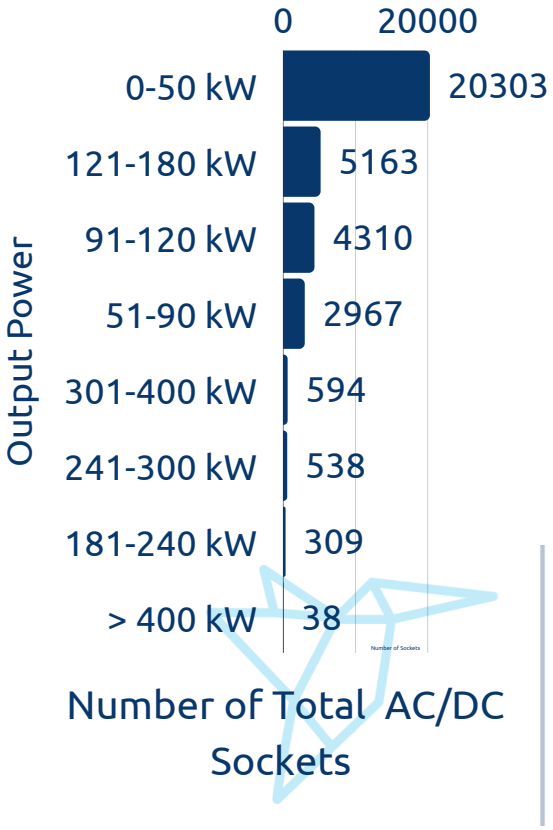


Number of DC Sockets

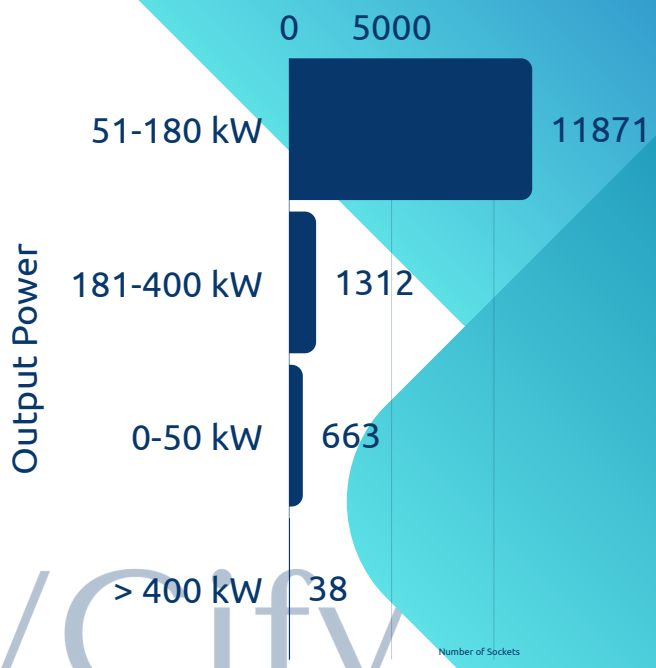
Source:

1. **EMRA, Energy Market Regulatory Authority**

Range of Sockets by Power in Türkiye



Number of Total AC/DC Sockets



DC Sockets by Range

	Slow Socket (<= 22kW)	Fast Socket (> 22kW, <=150kW)	Ultra Fast Socket (>150kW)
Number of EVs per Socket	**14**	**34**	**45**
Output Power (kW) per EV	**1.31**	**2.72**	**4.63**

Number of Sockets & Output Power per EV

Source:
1. **EMRA, Energy Market Regulatory Authority**

EV Charging Infrastructure Annual Change

	August 2024	August 2025	Annual Change (%)
Total Socket Power (GW)	1.35	2.51	86%
Total AC Socket Power (GW)	0.25	0.38	58%
Total DC Socket Power (GW)	1.09	2.13	95,4
Total Number of Sockets	20.636	34.222	65,8%
Total Number of AC Sockets	12.699	19.639	56%
Total Number of DC Sockets	7.937	14.583	83,7%

Benchmark Number of Sockets /Ouptut Power by Years

Source:
1. EMRA, Energy Market Regulatory Authority

Number of EVs in Türkiye

TÜİK, Turkish Statistical Institute

289.582

Total Number of EVs

105.757

January-July 2025 EVs

23.623

July 2025 EVs

8,5

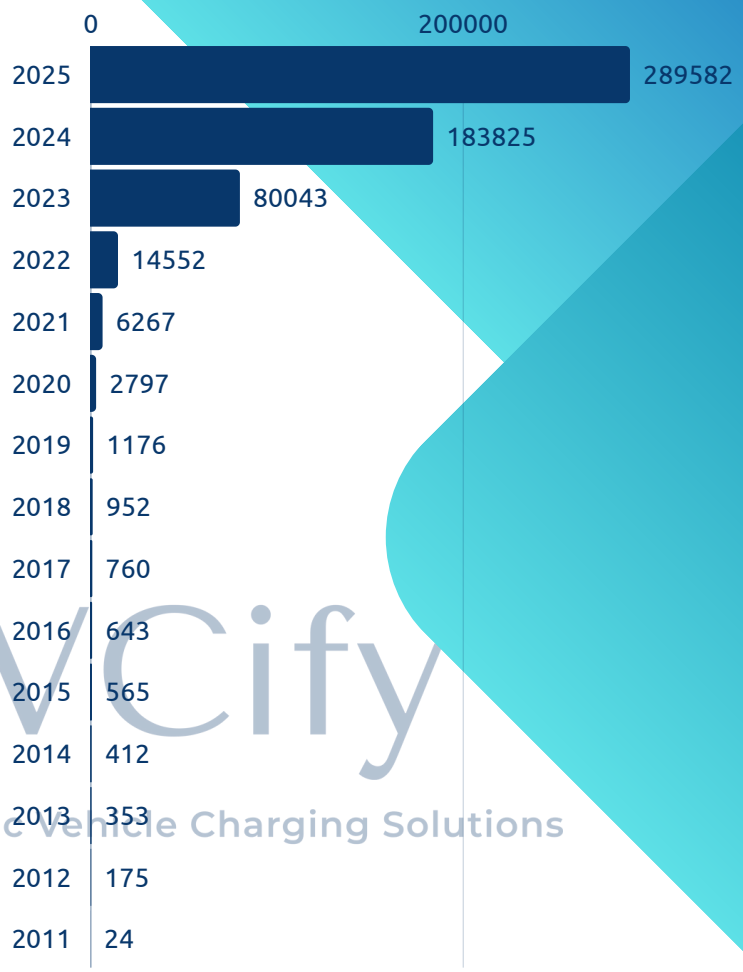
Number of EVs per Total Socket

15

Number of EVs per AC Socket

19,9

Number of EVs per DC Socket



Number of EVs by Years

July				January-July			
2024		2025		2024		2025	
Number	Market Share%	Number	Market Share%	Number	Market Share%	Number	Market Share%
8.565	**7,9**	**23.623**	**22,2**	**51.227**	**8,3**	**105.757**	**17,2**

Benchmark Number of EVs by Years

Source:

1. **Tüik, Turkish Statistical Institute**
2. **PEV is not included**

Number of EVs in Türkiye

ODMD-Automotive Distributors & Mobility Association

292.470

Total Number of EVs

85.894

January-July 2025 EVs

25.828

July 2025 EVs

8,6

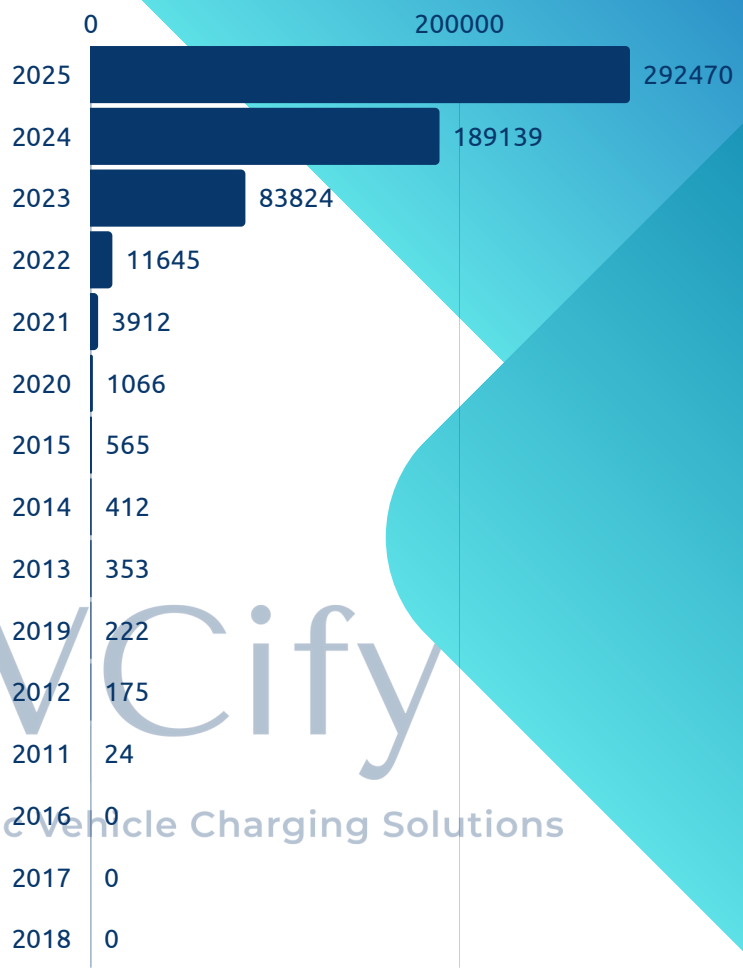
Number of EVs per Total Socket

15

Number of EVs per AC Socket

20,1

Number of EVs per DC Socket



Number of EVs by Years

July				January-July			
2024		2025		2024		2025	
Number	Market Share%	Number	Market Share%	Number	Market Share%	Number	Market Share%
5.937	**8,1**	**17.437**	**20,7**	**45.342**	**8,5**	**103.310**	**18,1**

Benchmark Number of EVs by Years

Source:

1. **ODMD-Automotive Distributors & Mobility Association**

Charging Service Data

July 2025 (AC vs DC)

Metric	AC	DC	Share (AC)	Share (DC)
Total Electricity Consumption (kWh)	5,893,266	39,712,543	12.92%	87.08%
Total Charging Time (minutes)	57,003,240	55,421,760	50.70%	49.30%
Total Charging Sessions	717,984	1,524,395	32.02%	67.98%
Consumption per Session (kWh/session)	8.21	26.05	–	–
Time per Session (minutes/session)	79.39	36.36	–	–

Source:

1. **EMRA, Energy Market Regulatory Authority**

Electricity Consumption (MWh)

Monthly, 2025

	January	June	Monthly Change (%)
Total Charging Sessions	1.034.827	2.242.379	116,7%
Total Electricity Consumption (kWh)	19.198.504	45.605.809	137,6%
Charging Consumption per Session (kWh/session)	18,55	20,34	9,7%
Total Charging Time (hours)	999.567	1.873.750	87,5%
Charging Time per Session (hours/session)	0,97	0,84	13,4%

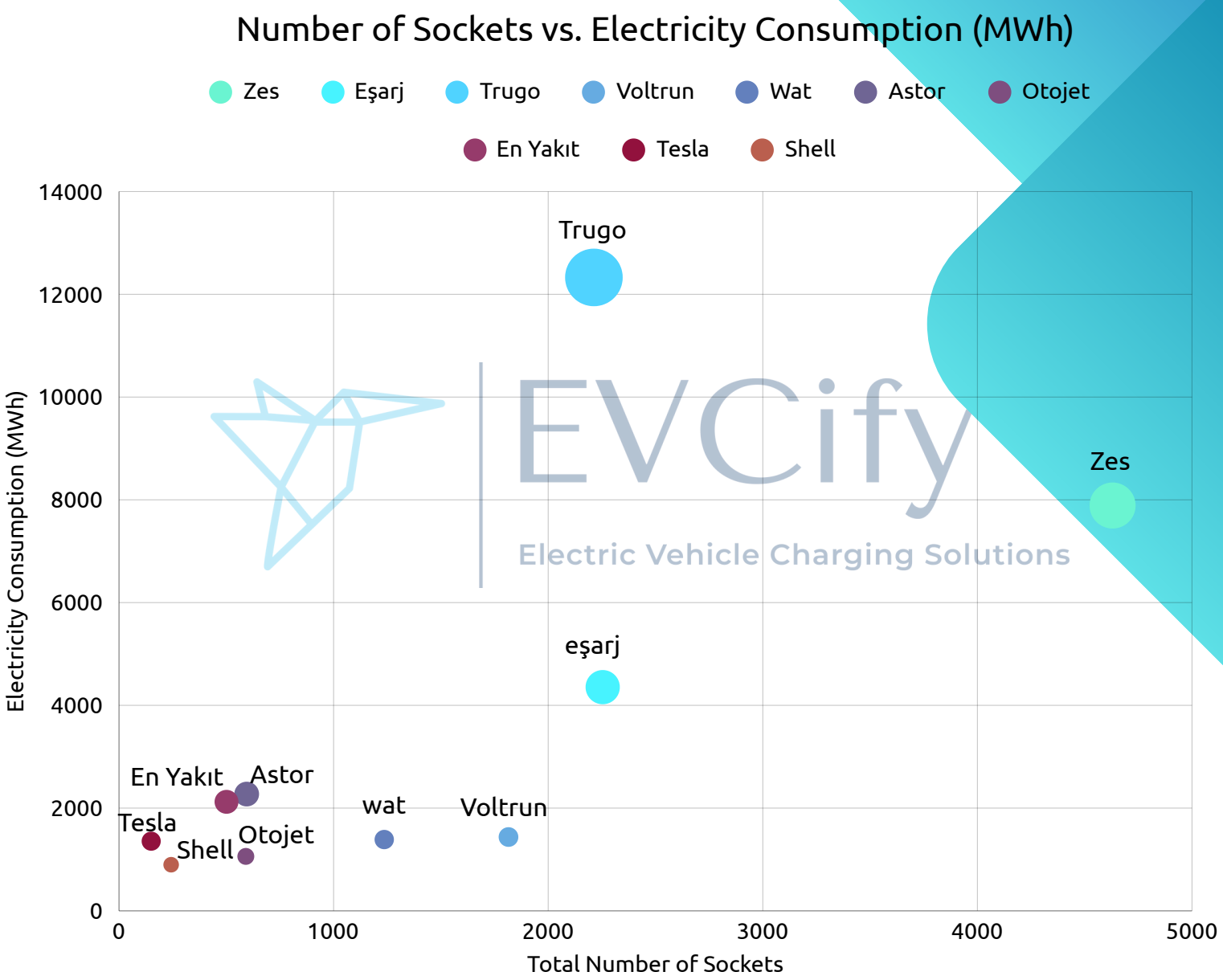
Monthly Charging Sessions and Consumption Comparison

Source:

1. **EMRA, Energy Market Regulatory Authority**

Electricity Consumption (MWh)

Scatter Plot Graph for July



Source:

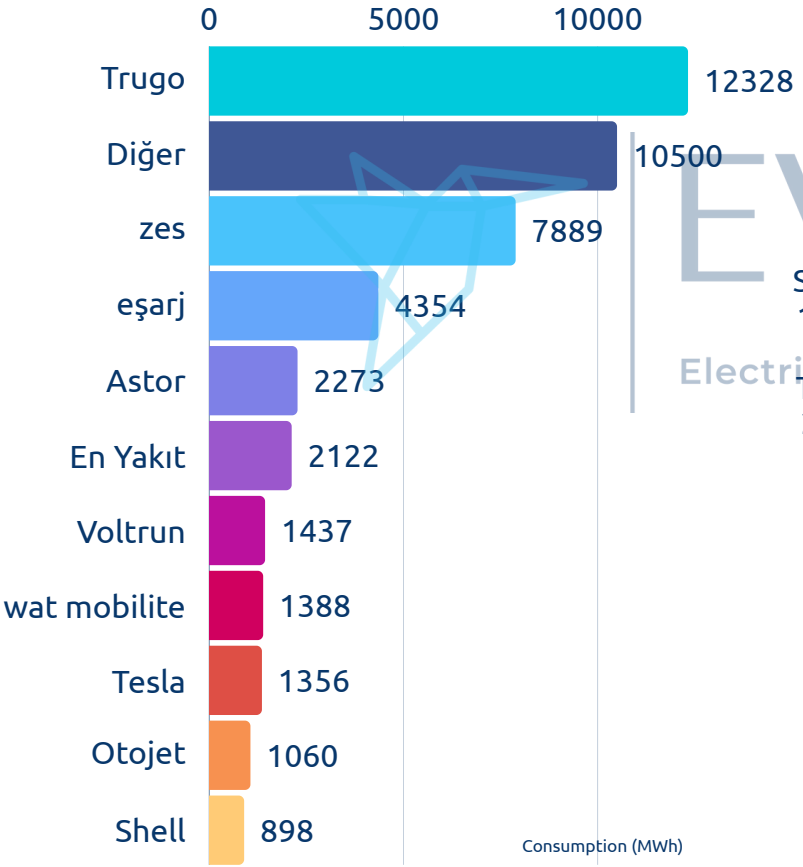
1. **EMRA, Energy Market Regulatory Authority**

Electricity Consumption (MWh) & Share (%) by CPOs

for July

35.105 MWh

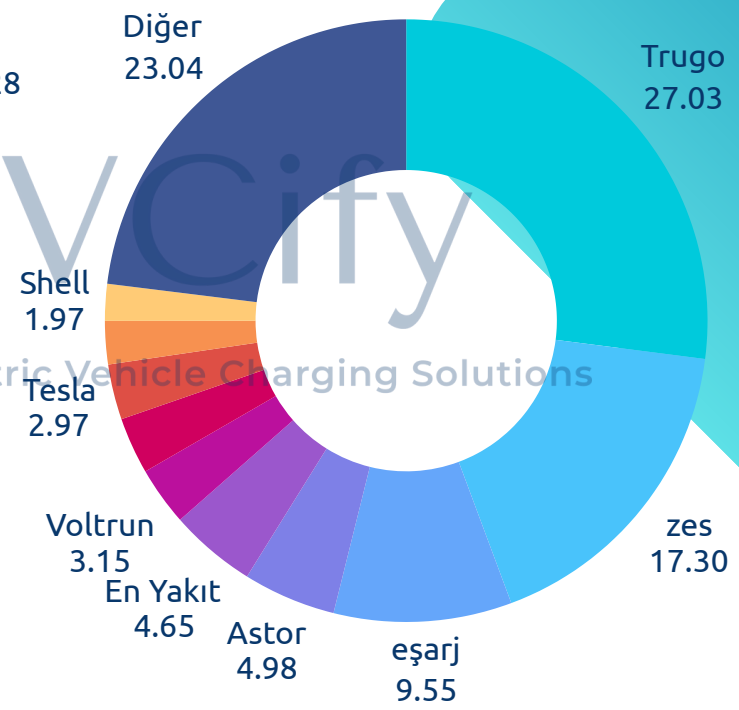
Top 10 CPOs
Total Consumption (MWh)



Total Electricity Consumption (MWh) by CPOs

76,96%

Top 10 CPOs
Total Consumption Share



Total Consumption Share (%) by CPOs

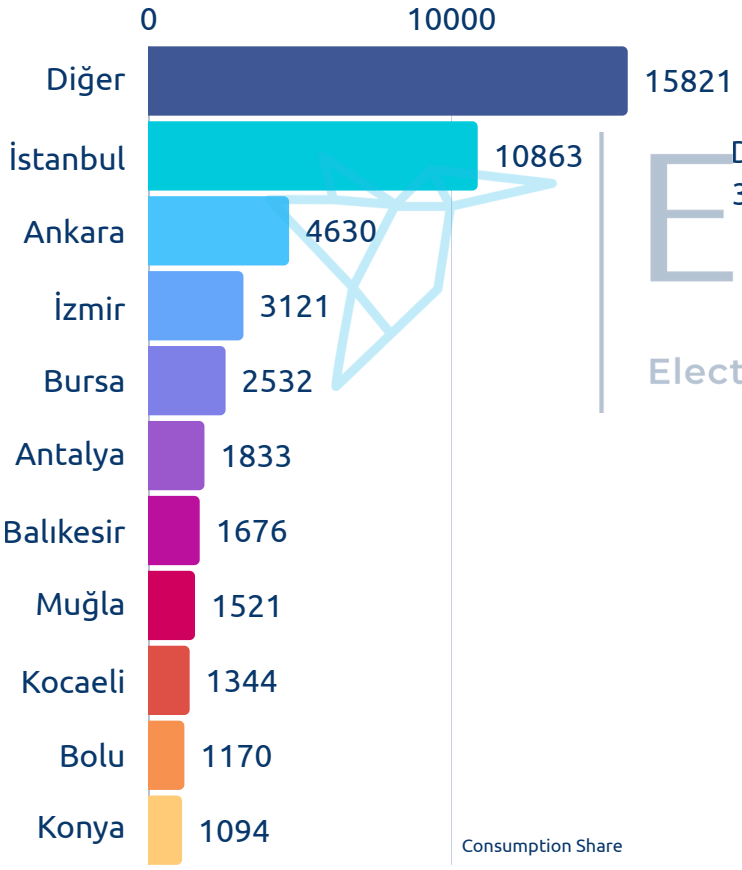
Source:
1. **EMRA, Energy Market Regulatory Authority**

Electricity Consumption (MWh) & Share (%) by Cities

for July

29.784 MWh

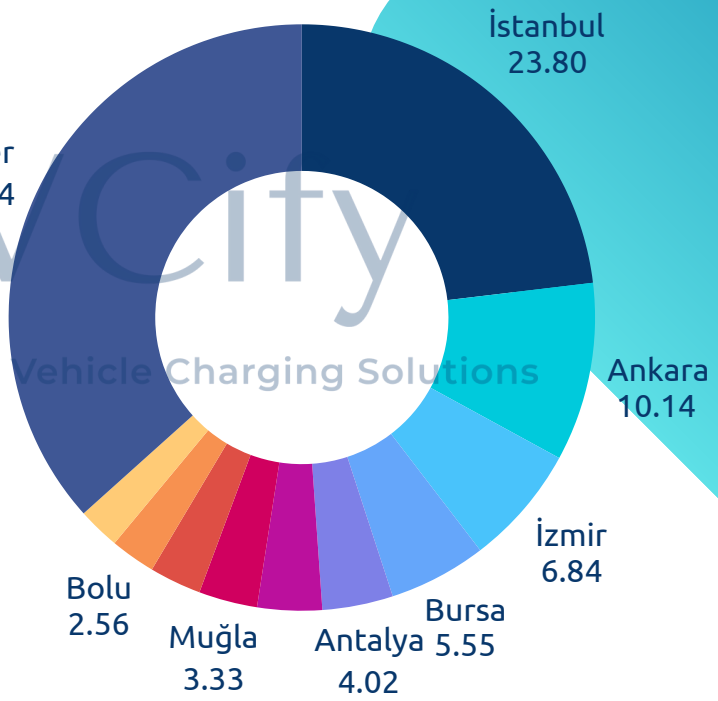
Top 10 Cities
Total Consumption (MWh)



Consumption Share (%) by Cities

65,26%

Top 10 Cities
Total Consumption Share



Consumption Share (%) by Cities

Source:
1. **EMRA, Energy Market Regulatory Authority**

Monthly Consumption Data (kWh)

Between January and July, 2025

Month	Total Charging Sessions	Total Electricity Consumption (kWh)	Charging Consumption per Session (kWh/session)
January	1.034.827	19.198.504	18,55
February	1.000.155	18.686.969	18,68
March	1.190.024	21.442.938	18,02
April	1.143.170	28.502.791	24,93
May	1.549.854	29.243.716	18,87
June	1.920.138	37.648.050	19,61
July	2.242.379	45.605.809	20,3

Source:

1. **EMRA, Energy Market Regulatory Authority**

Monthly Charging Service Data

Between January and July, 2025

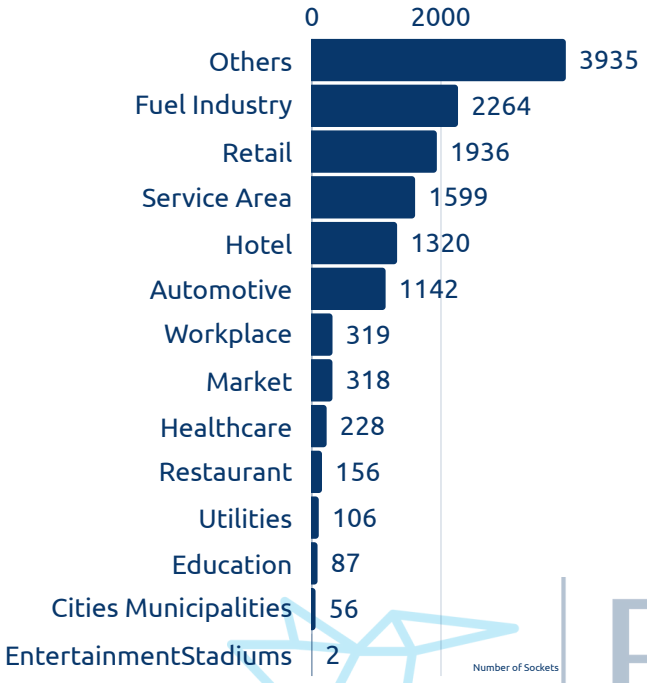
Month	Total Charging Sessions	Total Charging Time (hours)	Charging Time per Session (hours/session)
January	1.034.827	999.567	0,97
February	1.000.155	1.013.068	1,01
March	1.190.024	1.115.747	0,94
April	1.143.170	1.338.556	1,17
May	1.549.854	1.394.648	0,90
June	1.920.138	1.539.391	0,80
July	2.242.379	1.873.750	0,84

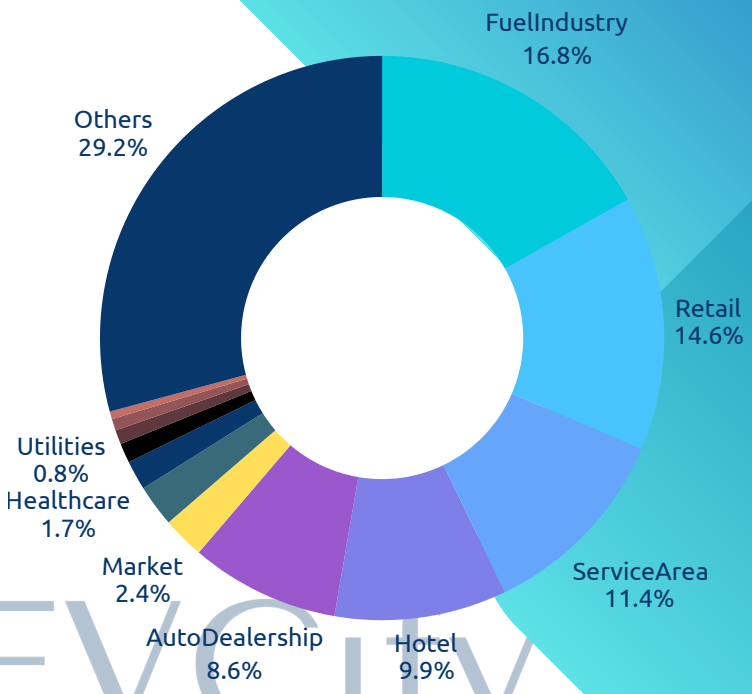
Source:

1. **EMRA, Energy Market Regulatory Authority**

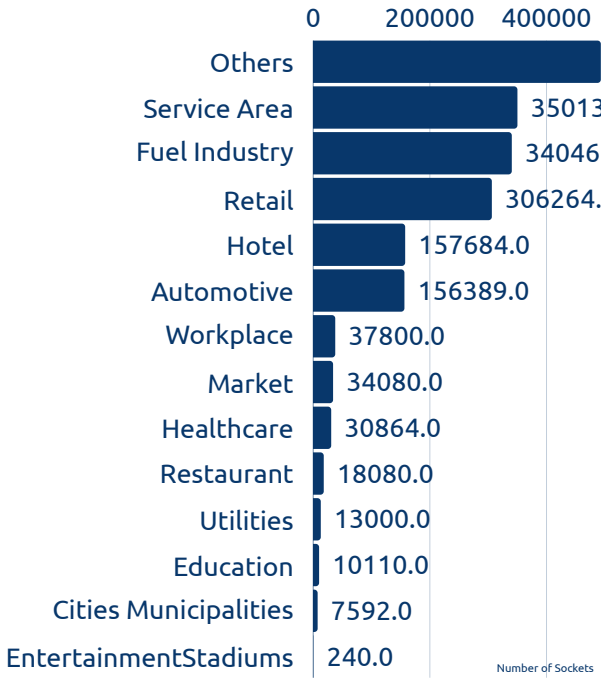
Installed DC Sockets By Sectors

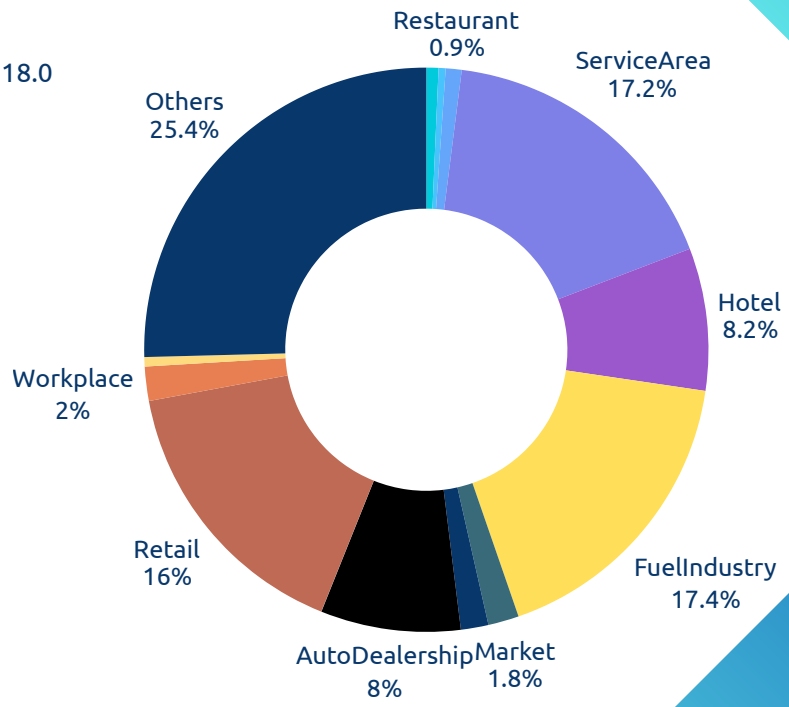
Not updated this month, data is for June





Number of Sockets



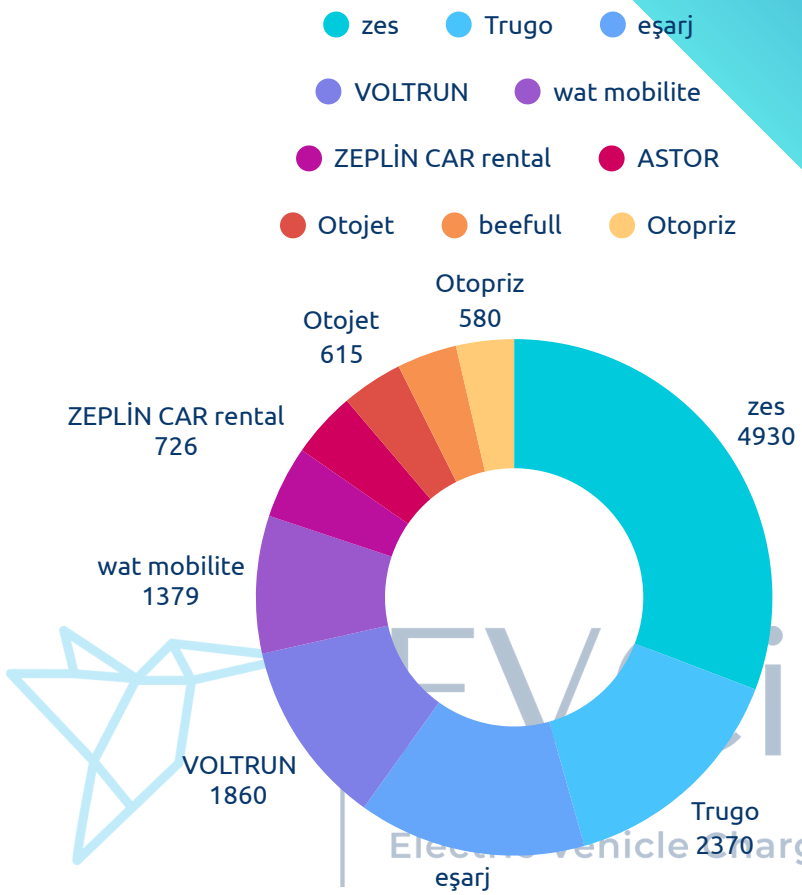


Output Power of Sockets (kW)

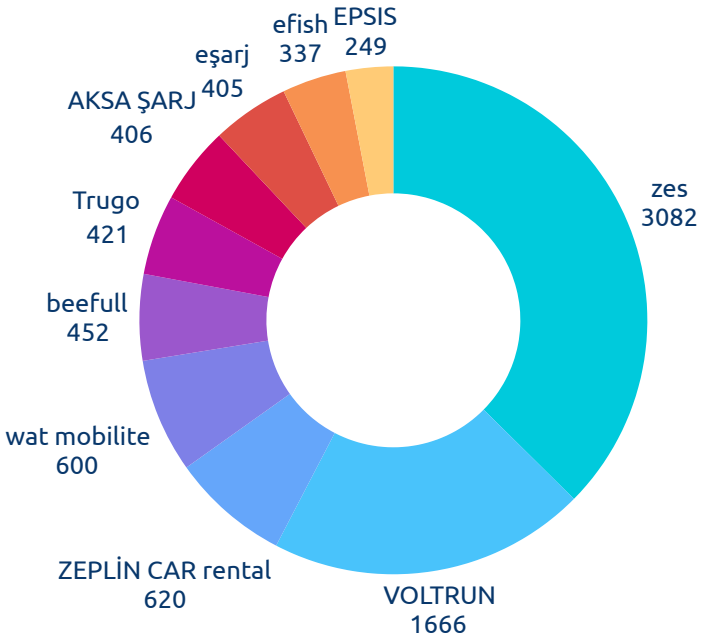
Source:

1. **EMRA, Energy Market Regulatory Authority**

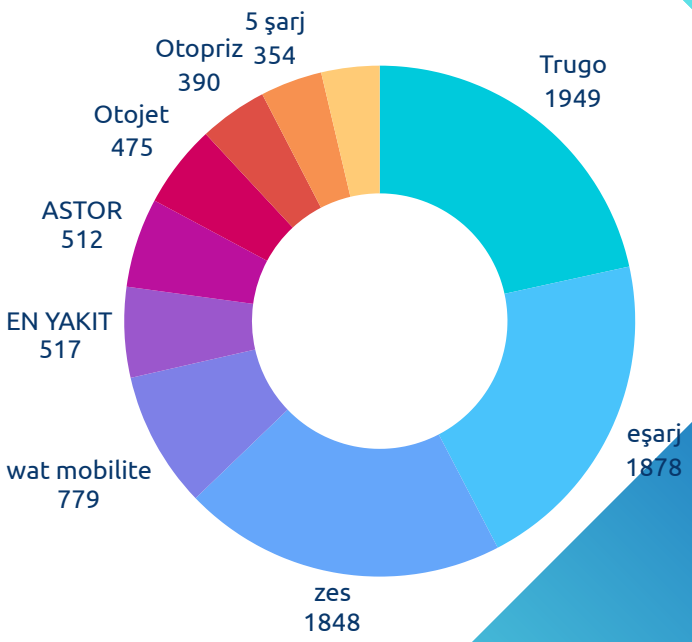
Top 10 CPOs with the Highest Number of Sockets



Number of AC/DC Sockets



Number of AC Sockets

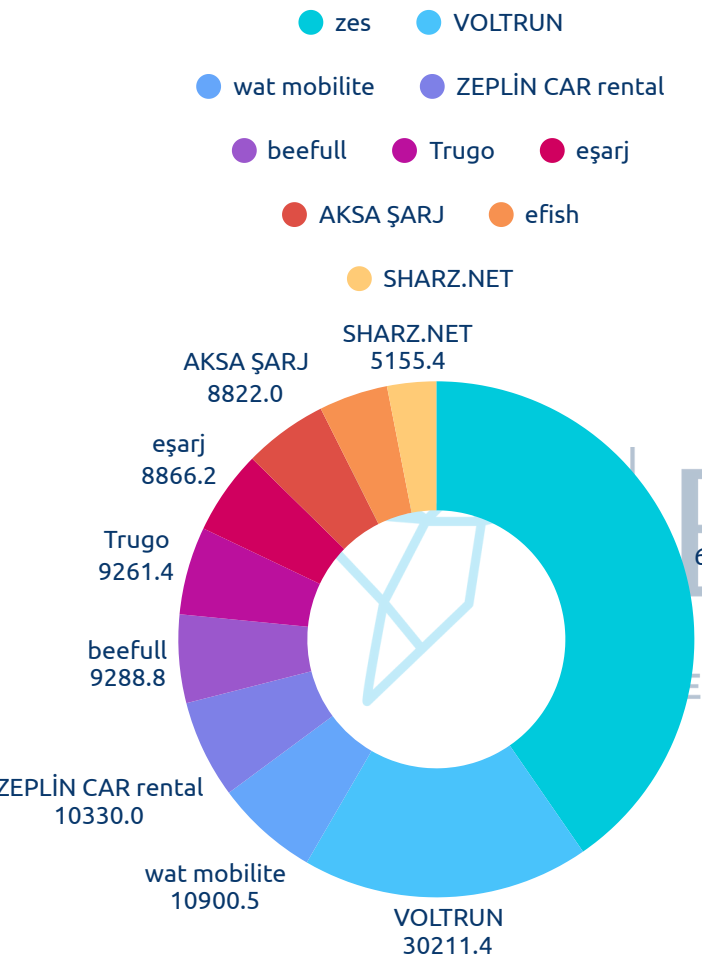


Number of DC Sockets

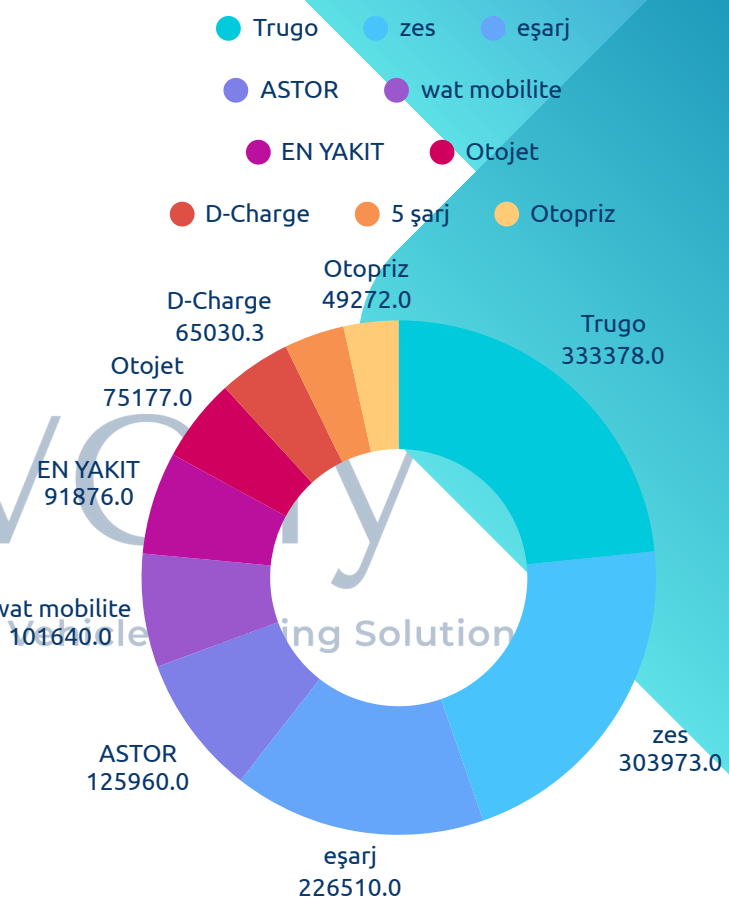
Source:

1. **EMRA, Energy Market Regulatory Authority**

Top 10 CPOs with the Highest Output Power of Sockets



Top 10 CPOs with the Highest Output Power of AC Sockets (kW)

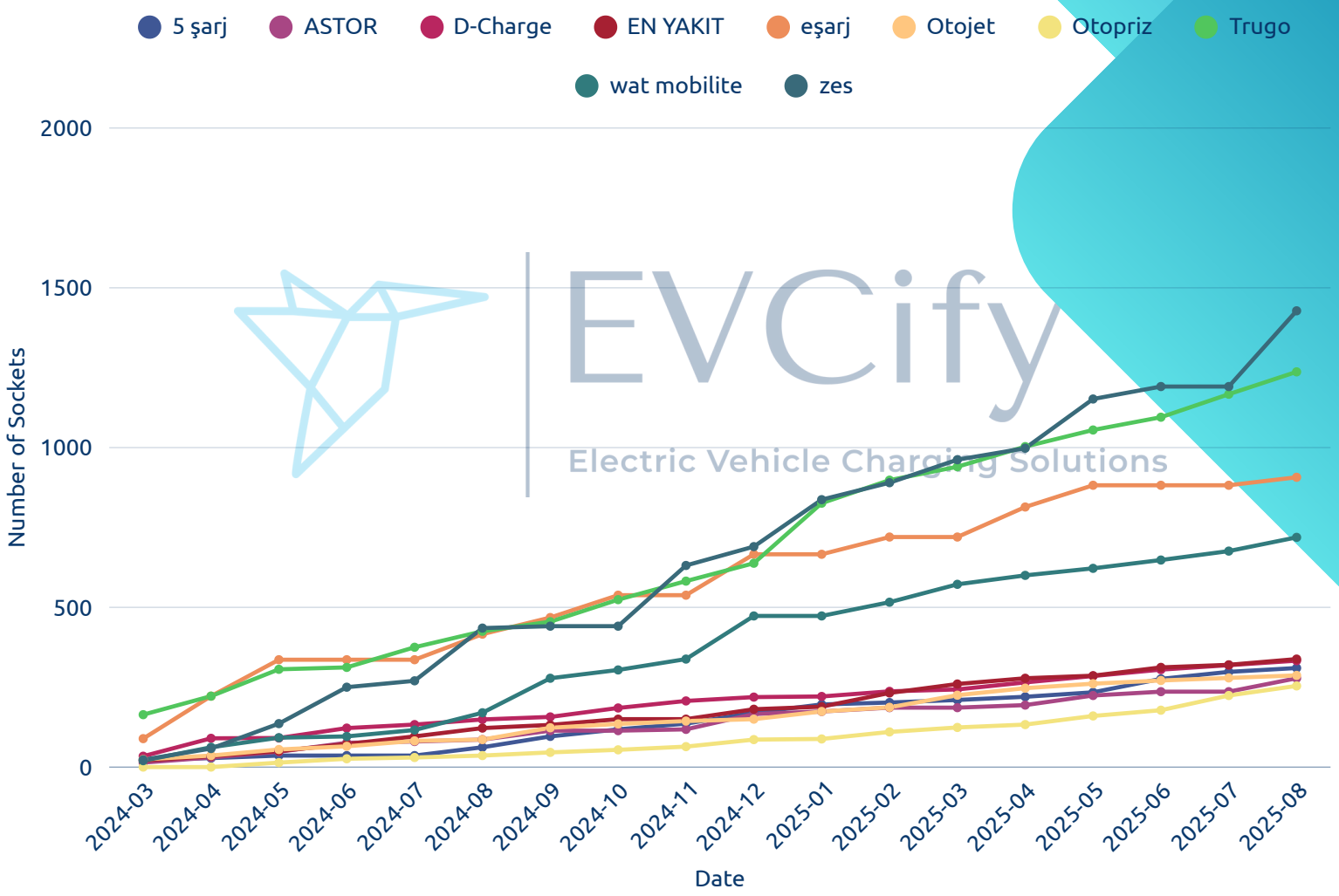


Top 10 CPOs with the Highest Output Power of DC Sockets (kW)

Source:

1. **EMRA, Energy Market Regulatory Authority**

DC Socket Investments of Leader 10 CPOs

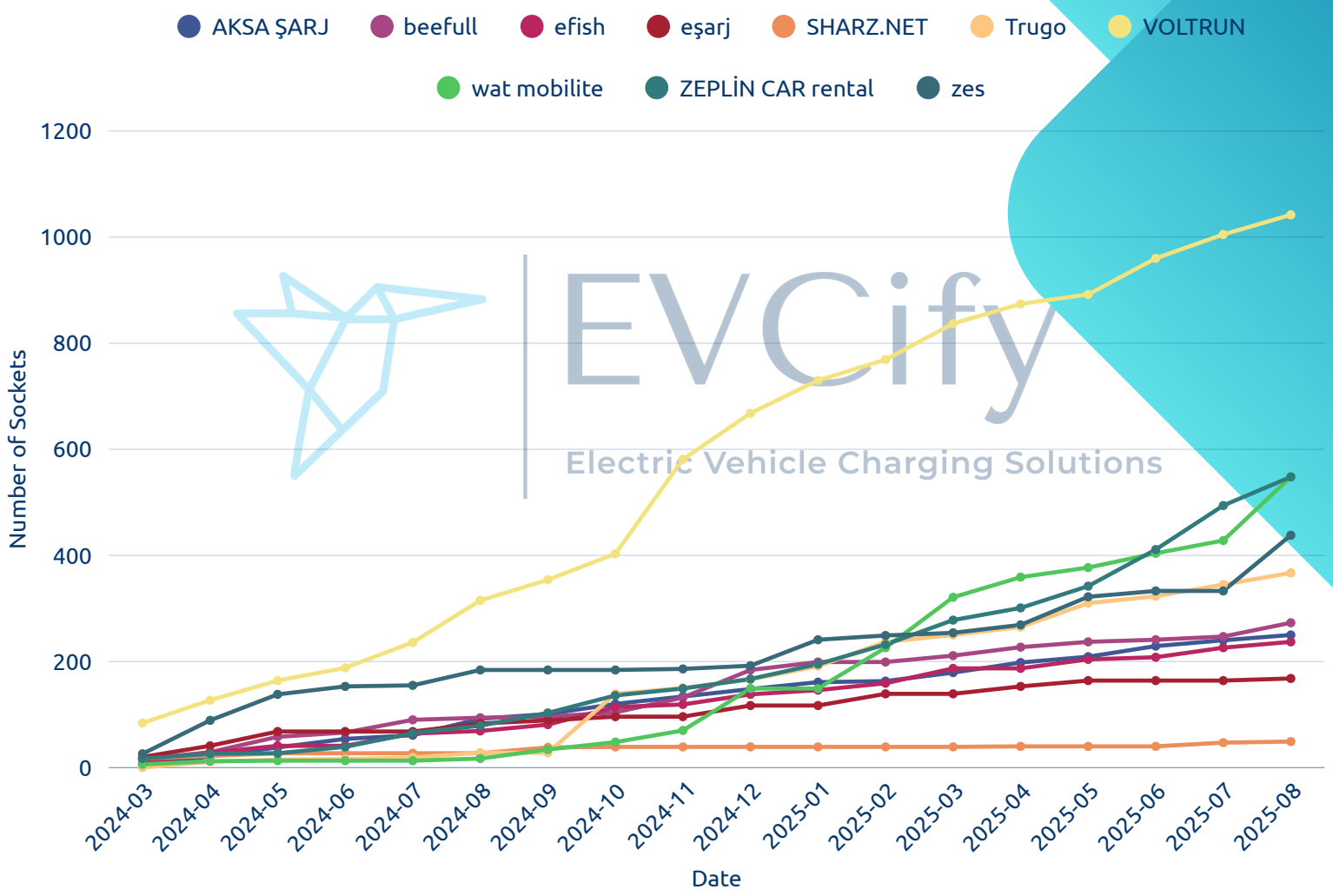


Last 16 months (2024-03-01, 2025-08-31)

Source:

1. **EMRA, Energy Market Regulatory Authority**

AC Socket Investments of Leader 10 CPOs

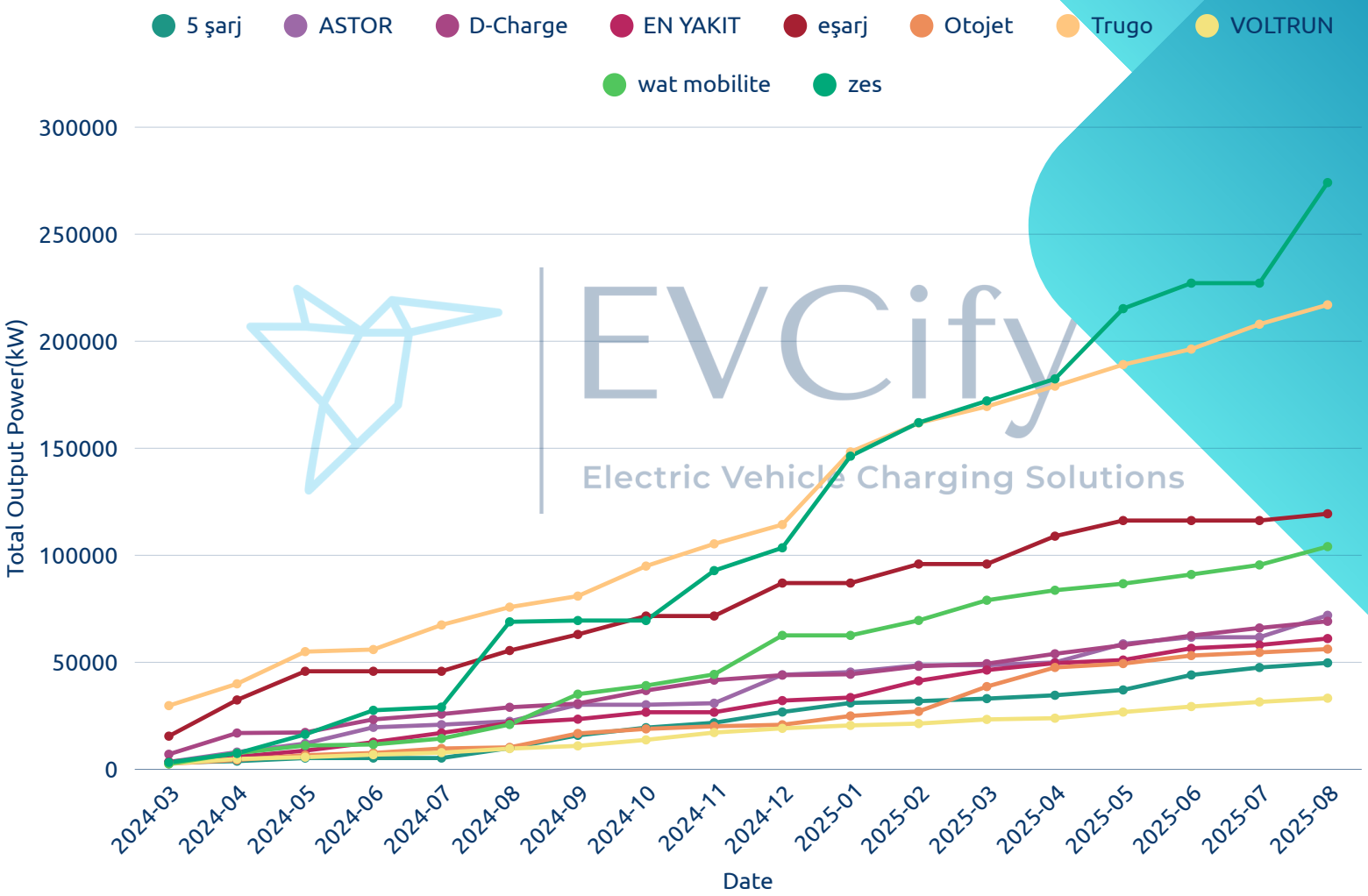


Last 16 months (2024-03-01, 2025-08-31)

Source:

1. **EMRA, Energy Market Regulatory Authority**

Total Output Power(kW) Installed in AC/DC Socket of Leader 10 CPOs

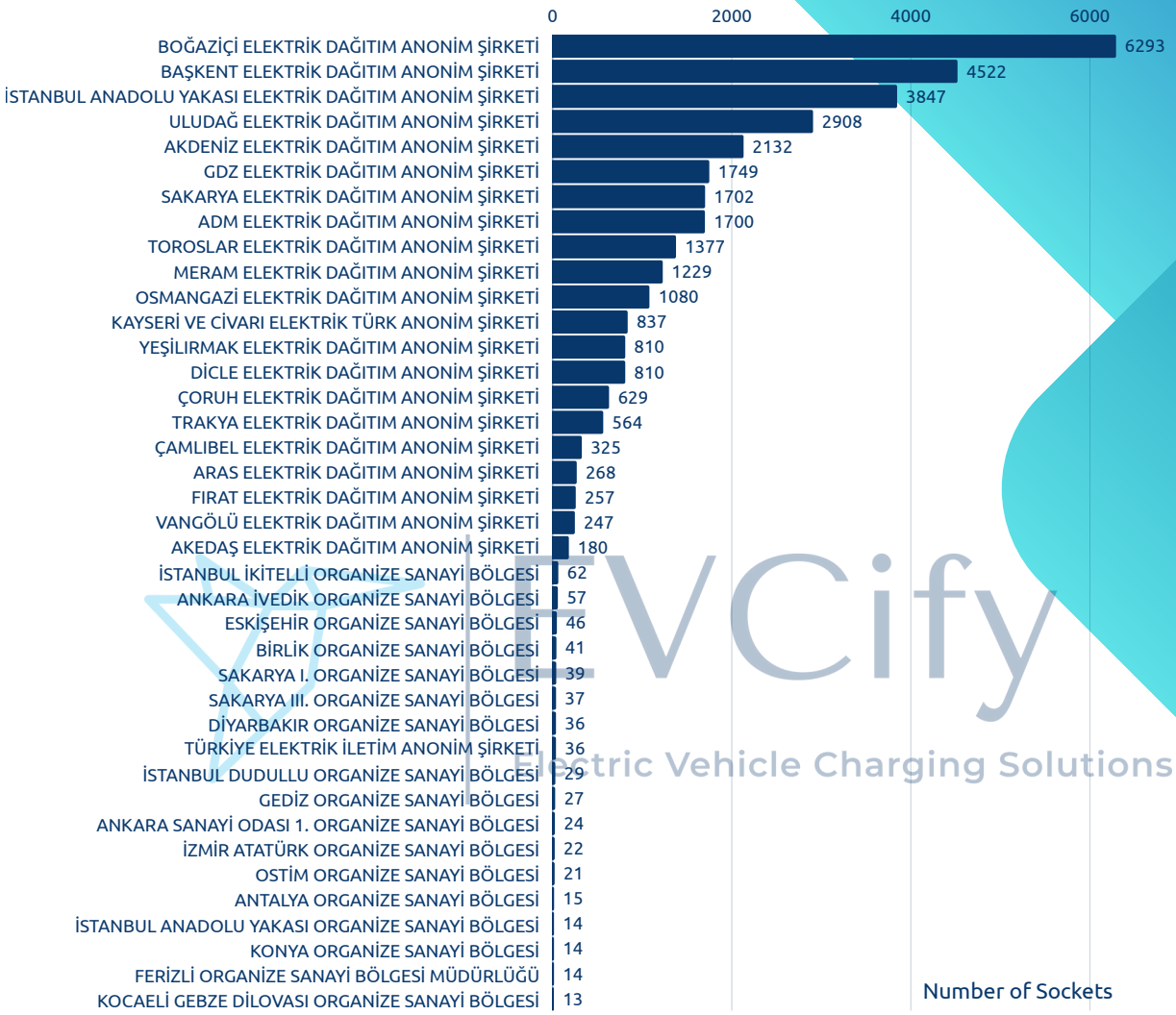


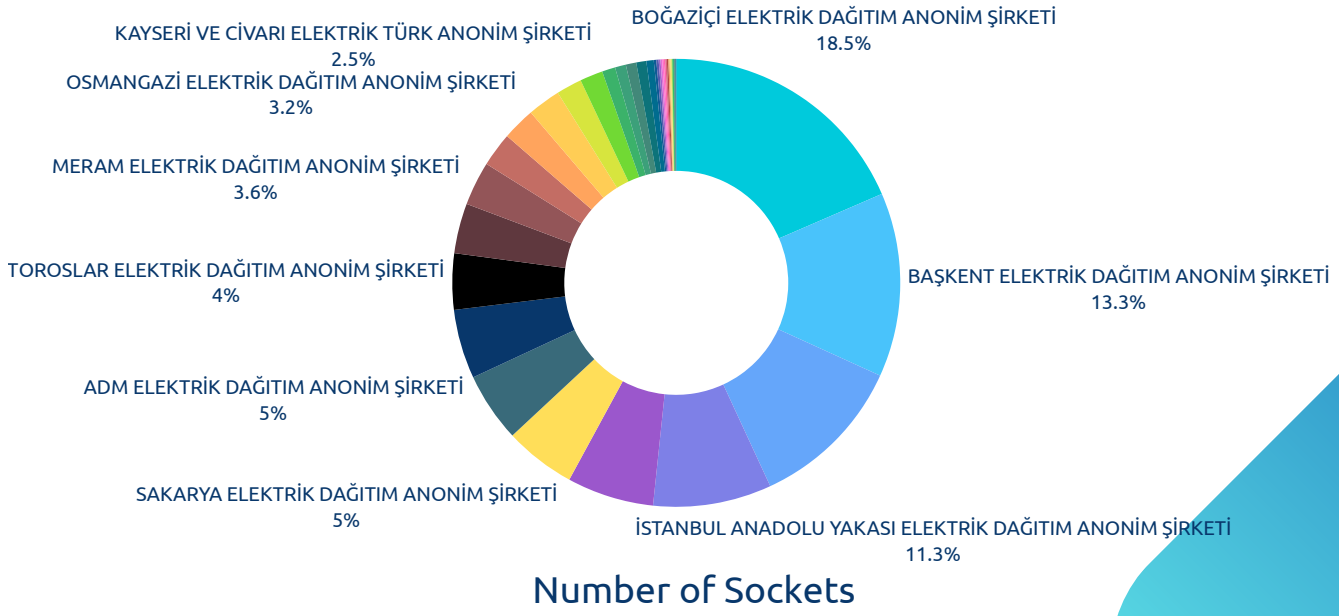
Last 16 months (2024-03-01, 2025-08-31)

Source:

1. **EMRA, Energy Market Regulatory Authority**

Number of Sockets By Electricity Energy Distribution Regions

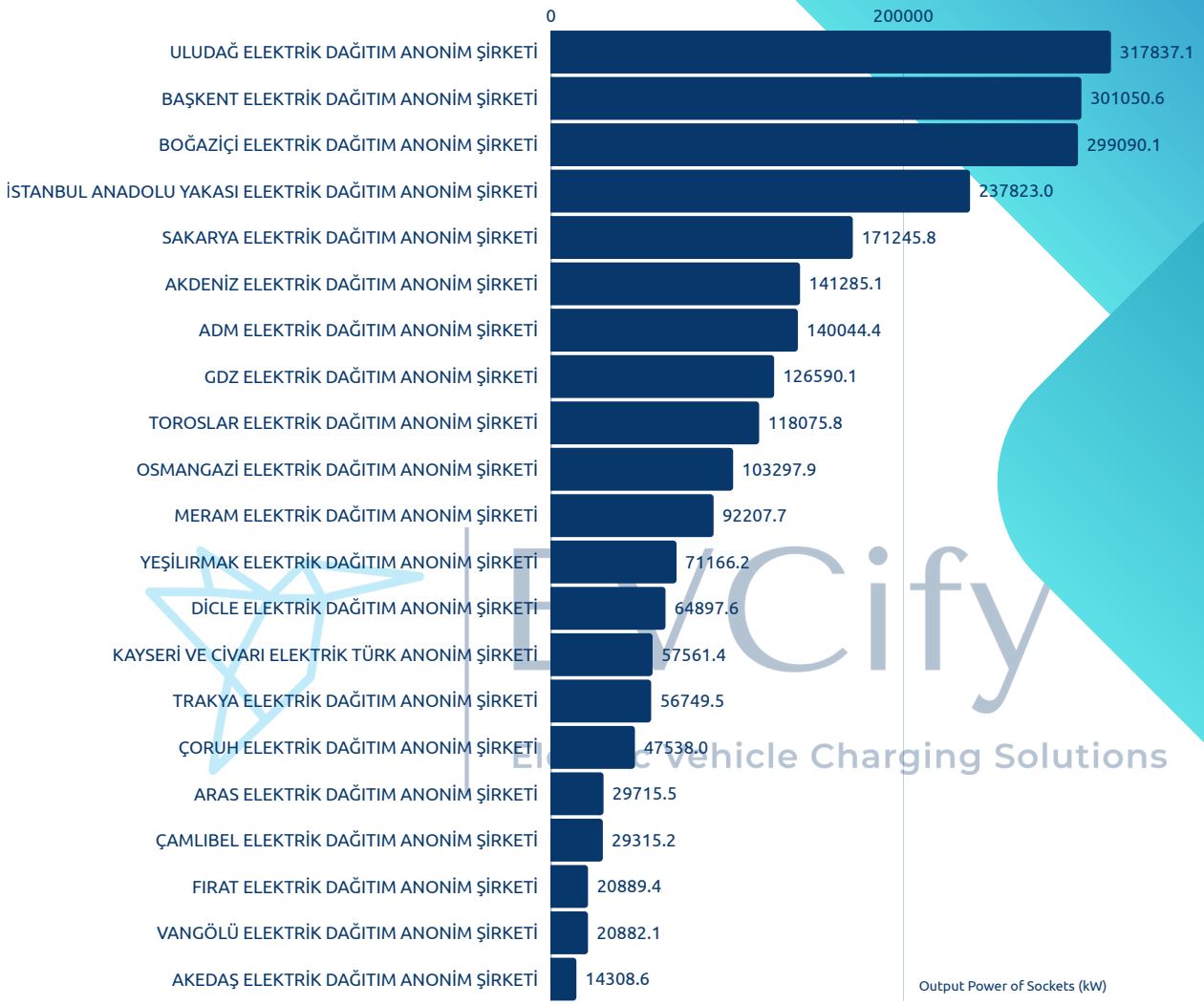


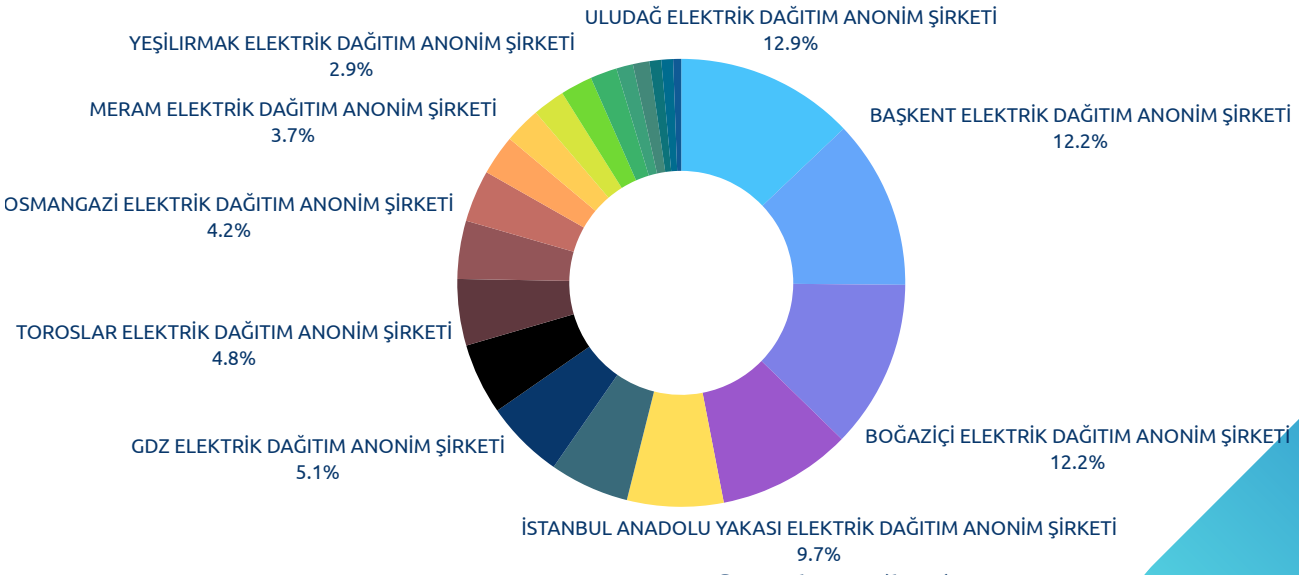


Source:

1. **EMRA, Energy Market Regulatory Authority**

Output Power of Sockets (kW) By Electricity Energy Distr. Regions





Output Power of Sockets (kW)

Source:

1. **EMRA, Energy Market Regulatory Authority**

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