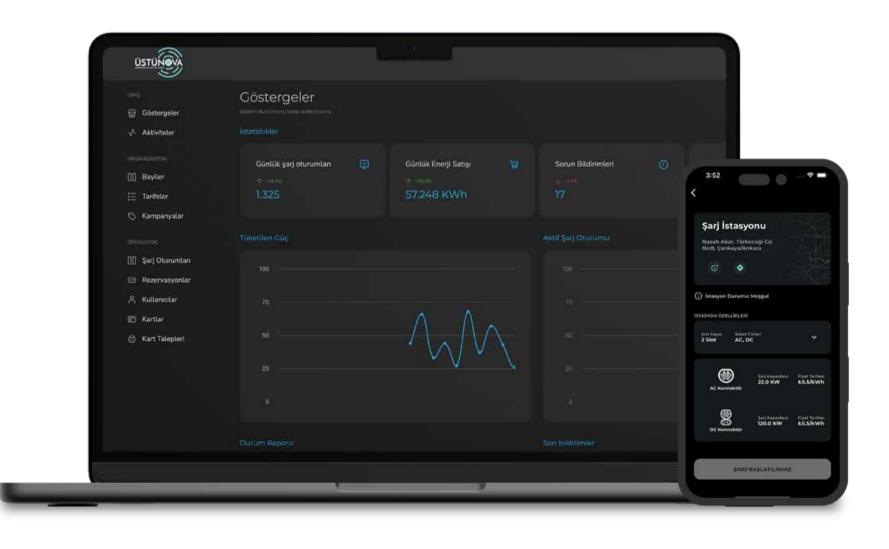


Software Solutions for EV Charging

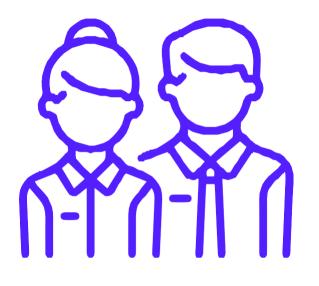


About Us



HEADQUARTER
Ankara University
Teknokent, Ankara,
Turkey

BRANCH
Ulutek Technology
Development Area,
Bursa, Turkey



PERSONEL 60+



CERTIFICATES
ISO 9001
ISO/IEC 27001
TEMPEST
NATO/National Facility Security
ASELSAN Approved Design
ASELSAN Strategic
Partnership





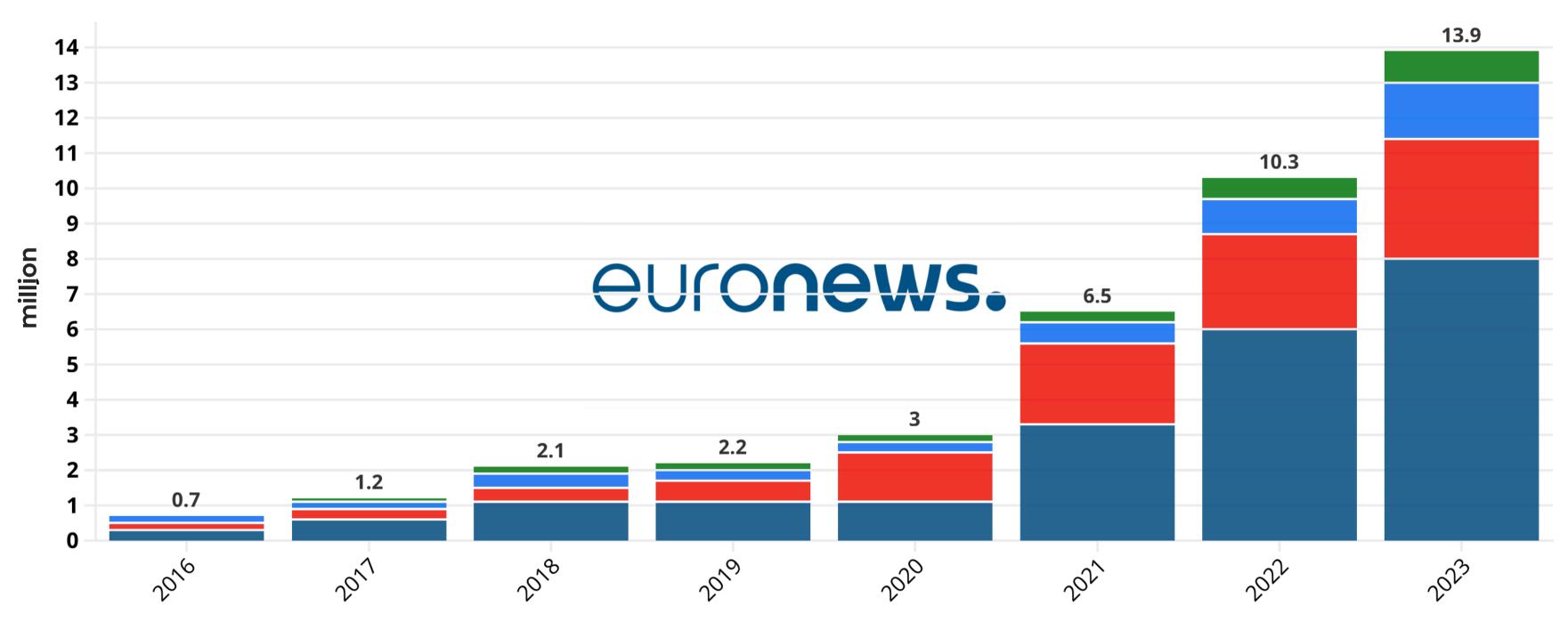
Objectives

- Clean Energy
- System and Software Solutions
- Technologic Leadership



number of electric car sales



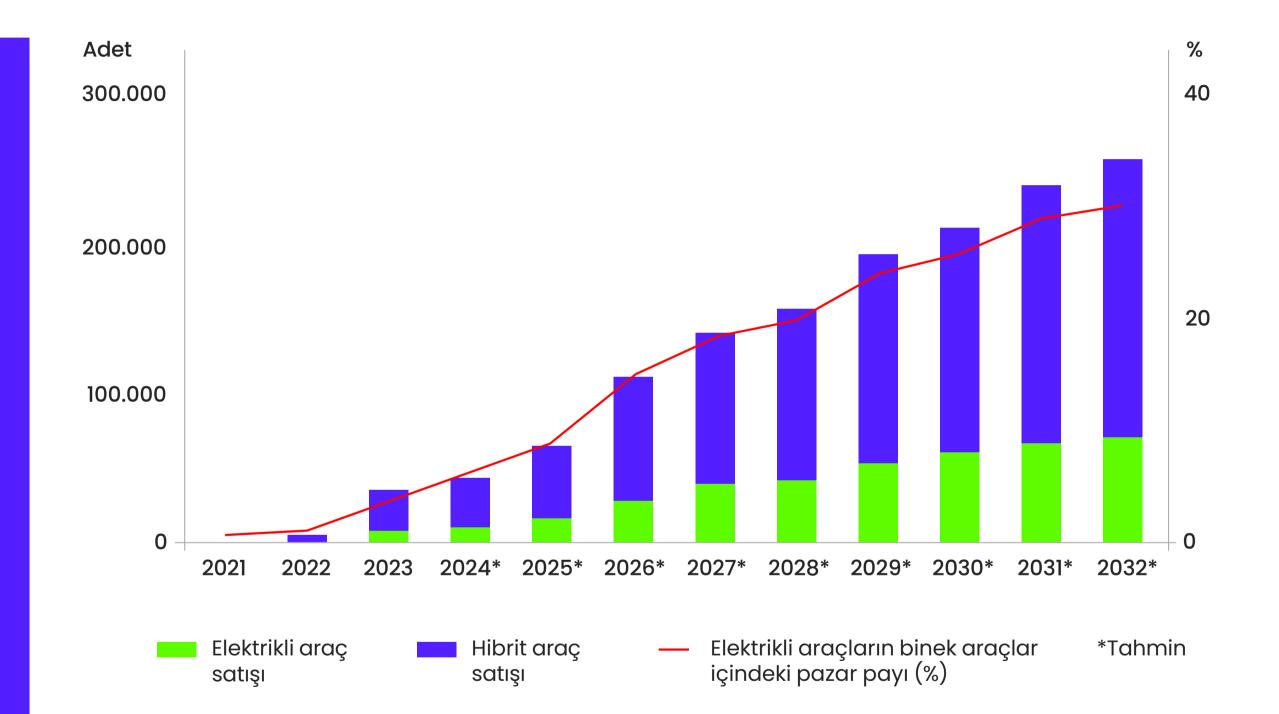


Source: IEA • (*2023, tahmini veri)



Electric vehicle sales are expected to grow by an average of 60.8 percent annually in Turkey

Electric passenger vehicle sales are expected to grow by an average of 60.8 percent annually until 2032, and the market share of these vehicles in passenger vehicles is expected to reach 30.4 percent in Turkey.



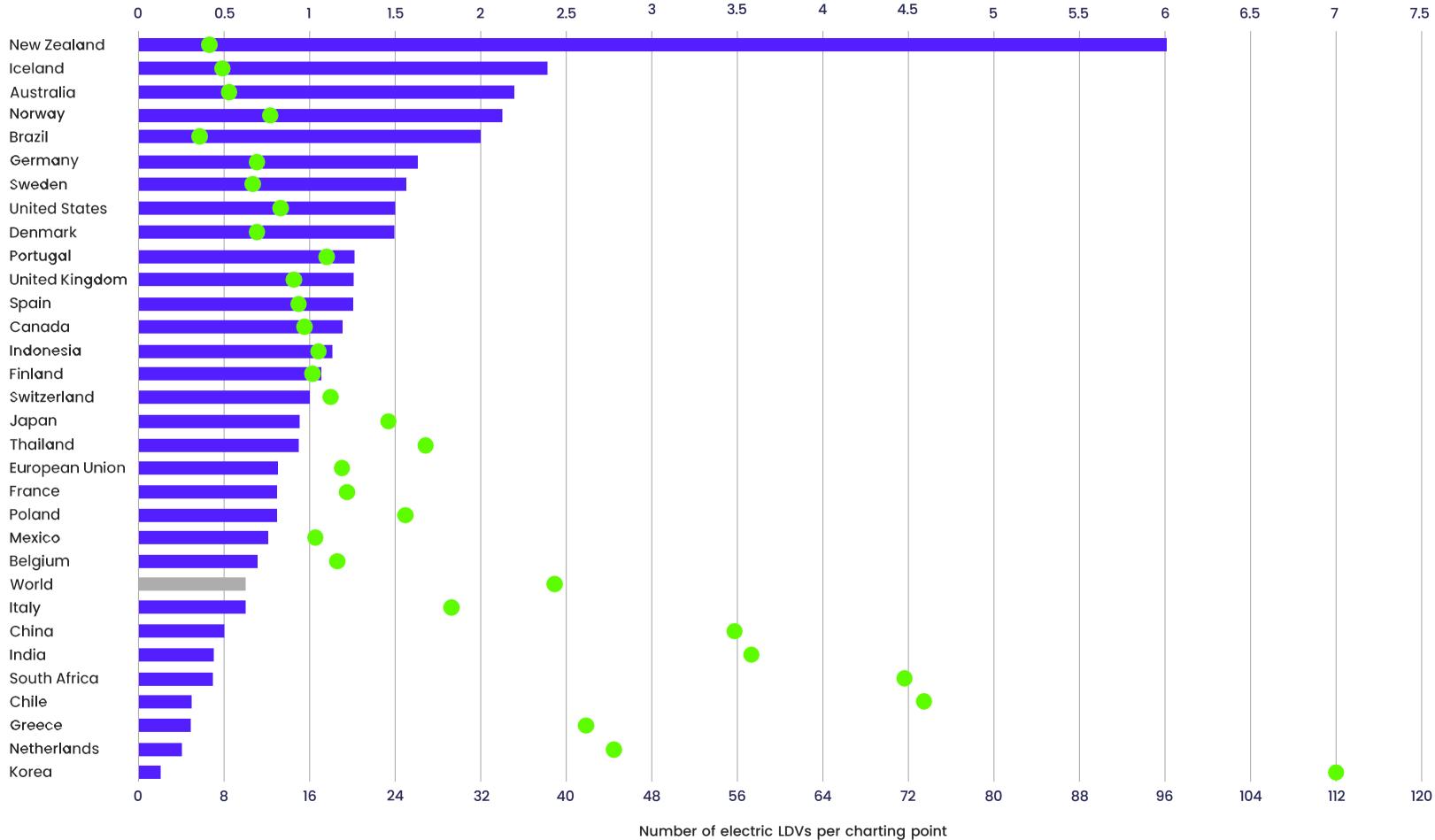
Stations Number of Electric

ELECTRIC VEHICLE SALES IN TURKEY

Year / Sales Number	2015	2016	2017	2018	2019	2020	2021	2022		2023	
Electric vehicle	110	44	77	155	222	844	2.846	7.733	Market share 1,50%	48.883	Market share: 6,50%
Hybrid vehicle	974	1.038	4.505	3.899	11.974	22.272	49.493	64.387	Market share 10,90%	78.387	Market share: 10,50%
Total							592.660		749.501		

- Number of Operators with EPDK Charging Network Operating License 157
- Number of Operators with EPDK Charging Network Operating License 4.221 units
- Number of Electric Vehicle Charging Points (sockets) 8,861 units (AC 6,633 units, DC 2,228 units)
- As of October 2023 Approximate number of electric vehicles in use 60,000
- Approximately 1 DC charging point per 27 vehicles / 1 charging point per 7 vehicles

kW of public charging per electric LDVs

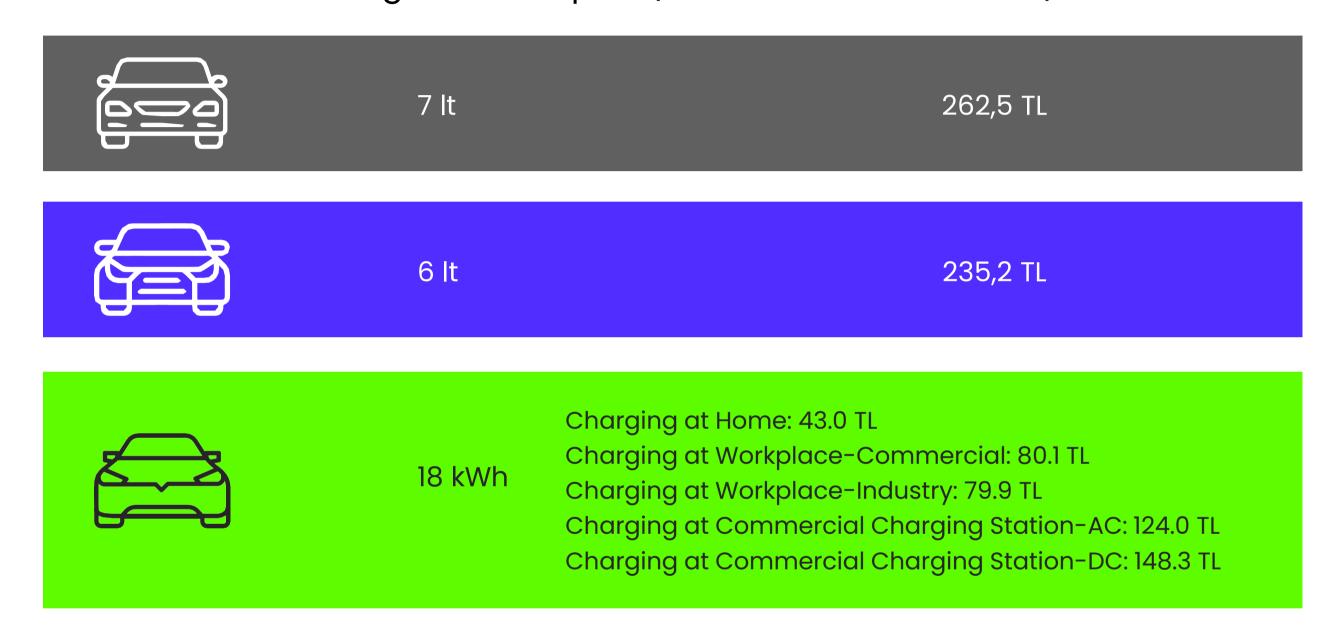


^{*} IEA (Internation Energy Agency) Mor - EV / EVSE Yeşil - kW / EV

costs

Electric, Gasoline and Diesel Vehicle Comparative Travel Costs

Average Consumption/100 km Travel Cost/100 km



Residential, commercial, and industrial low-voltage single-term tariff prices have been used as a basis.

Commercial charging station AC (slow charging) average price: 6.89 TL/kWh Commercial charging station DC (fast charging) average price: 8.24 TL/kWh Gasoline: 37.5 TL/literDiesel: 39.2 TL/liter

Prices include VAT.10.10.2023

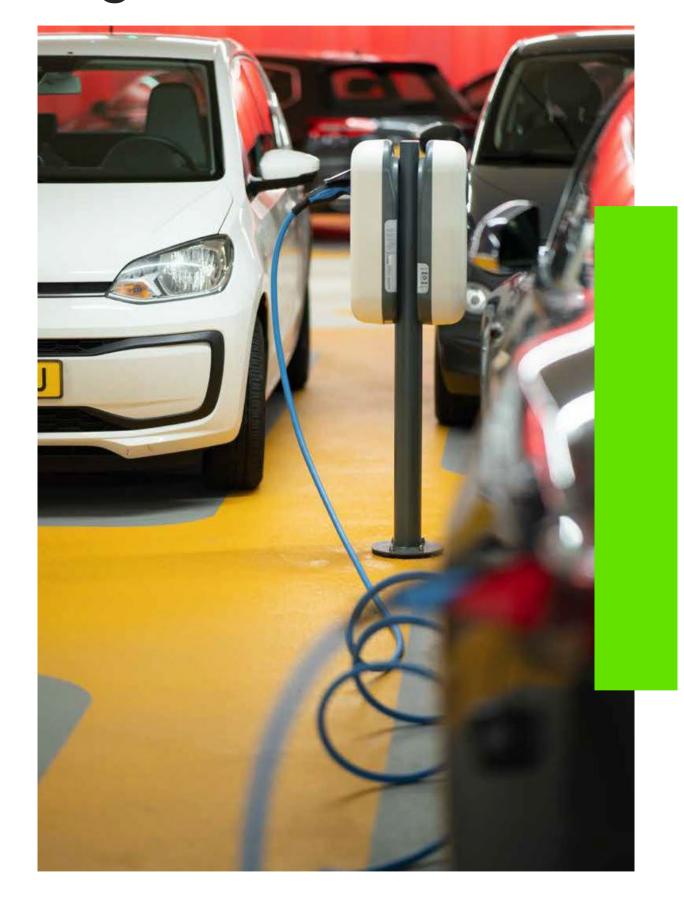


Electric Vehicle Charging Station Network Licensing

and Installation Process

The demand for Electric Vehicle Charging Stations is increasing day by day. Companies operating in this sector are required to comply with the installation conditions set by the Energy Market Regulatory Authority (EPDK).

- Application for EPDK Charging Network Operating License
- Location Determination Search
- Equipment Procurement AC / DC
- Software Selection and Customization
 - Mobile and Web-Based Customization - Corporate Identity Third-Party Integrations
- Infrastructure Preparation and Installation
- EPDK Approvals





Electric Vehicle Charging Station Network Operation Process

Business and Operations Management

Monitoring and Management Reports
Data Sharing with EPDK / GiB
Call Center Management
Fault Detection and Solutions
Enerji Consumption Analysis
User Analysis

Maintenance Management
Periodic Maintenance Planning
Workforce Planning
Reporting





How Do We Succed?

Field Experience - Continuous Development - Technological Leadership

10+ EXPERIENCE

With over 10 years of high-tech experience, we have undertaken projects with almost zero tolerance values.

60+ EKİP

We work for absolute efficiency with our team of software and electronics engineers.

%100 HARDWARE

Our Electric Vehicle Charging Management Platform is compatible with all charging devices that support OCPP 1.6.

500+ CHARGING POINTS

It has been developed with an architecture capable of serving all charging points, which are increasing day by day in our country.





Siber Güvenlik



Modüler Yapı



Güçlü Mimari



Ölçeklenebilir Sistem

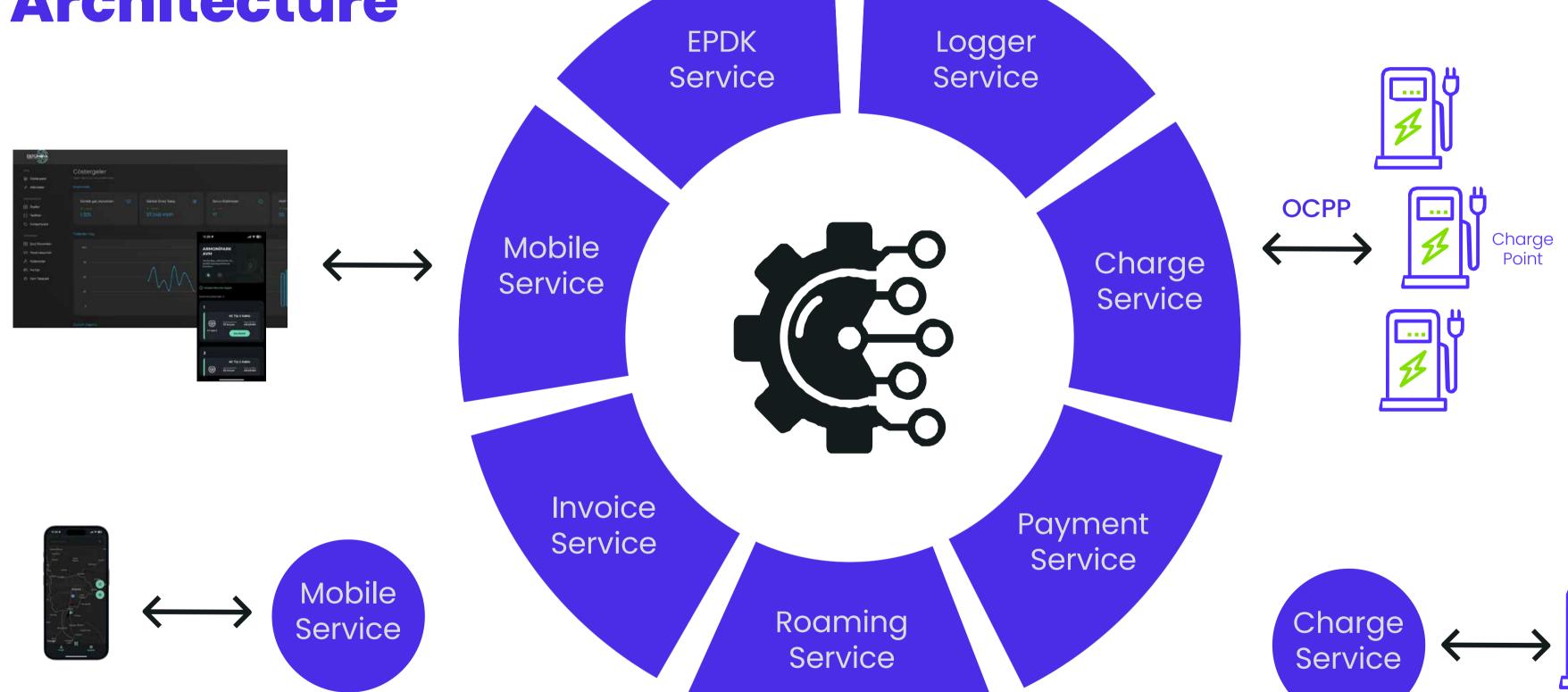


Esnek Arayüz





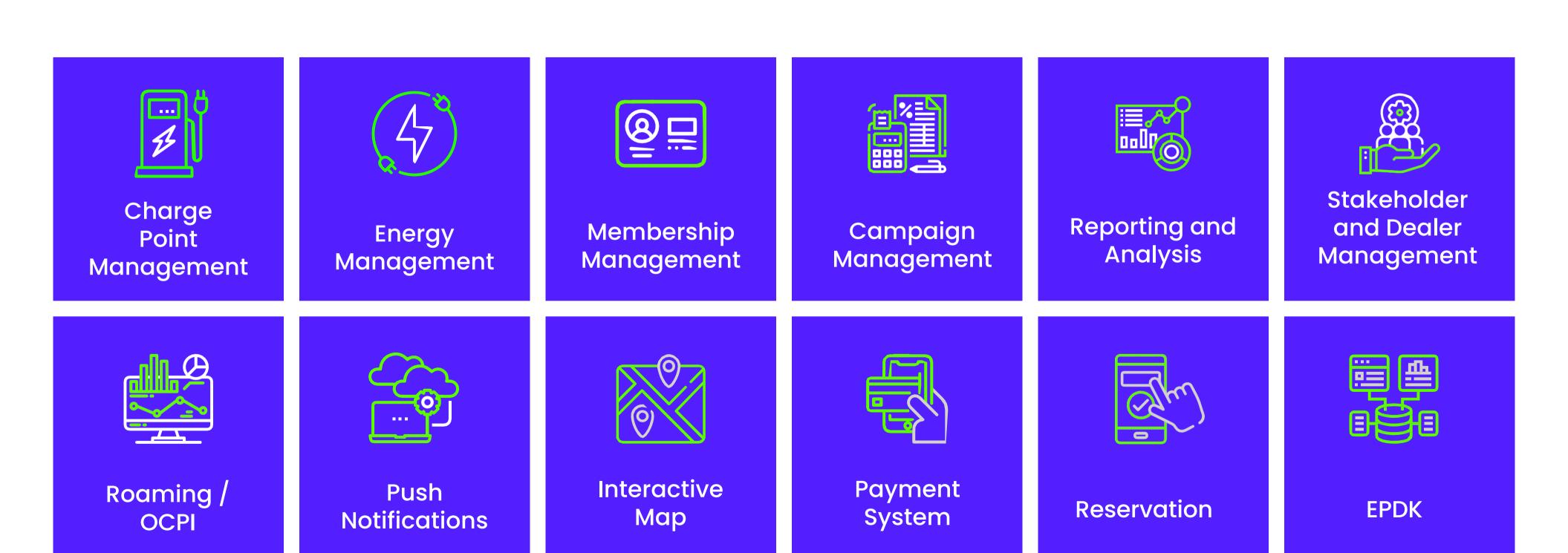
System Architecture



Charge Point

A Snapshot of electr-INN

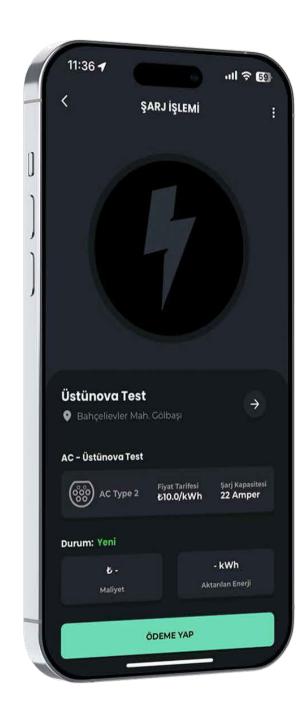
A summary of electr-INN in one page

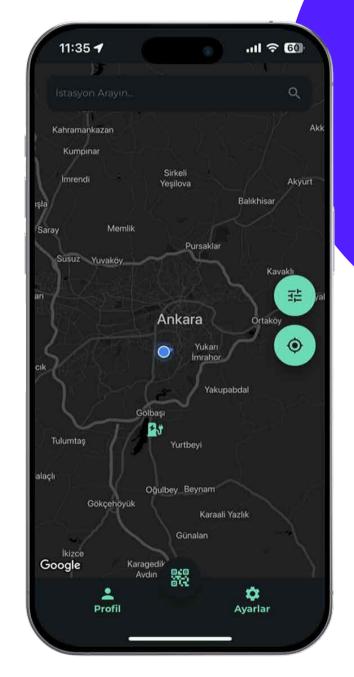


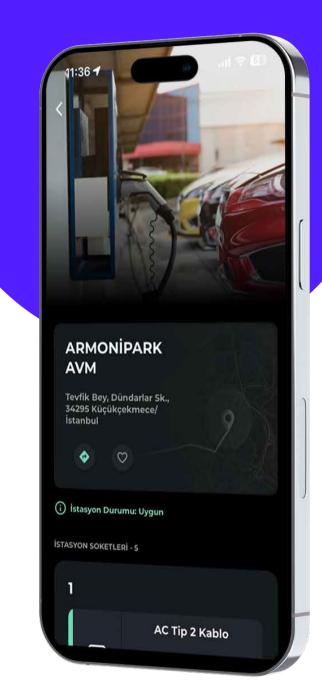
electr-INN MOBILE APP

iOS and Android

- Instant Display on Map
- Status of Charging Points
- Charging start with RFID Card and Mobile App
- Ön Ödeme / Anında Ödeme / Sonradan Ödeme
- Credit Card Storage
- Reservation
- Past Charging Transactions
- Access to Invoices
- Suggestion & Problem Reporting
- White-Label

















electr-INN CHARGING MANAGEMENT SYSTEM



- Management of Charging Points (Remote & Web Based)
- Monitoring, recording and reporting of all Charging Process
- Energy Consumption Flexible Calculation
- Payment and e-invoice Management
- User and Membership Management
- Flexible Authorization
- Campaign & Discount Management
- Automatic Problem Detection
- Integrations EPDK / GİB / Payment / E-Invoice / SMS
- Reporting and Analysis (Daily, Monthly, Annually)
- Detailed Movement (Log) Records
- Roaming API OCPI
- Call Module Integration

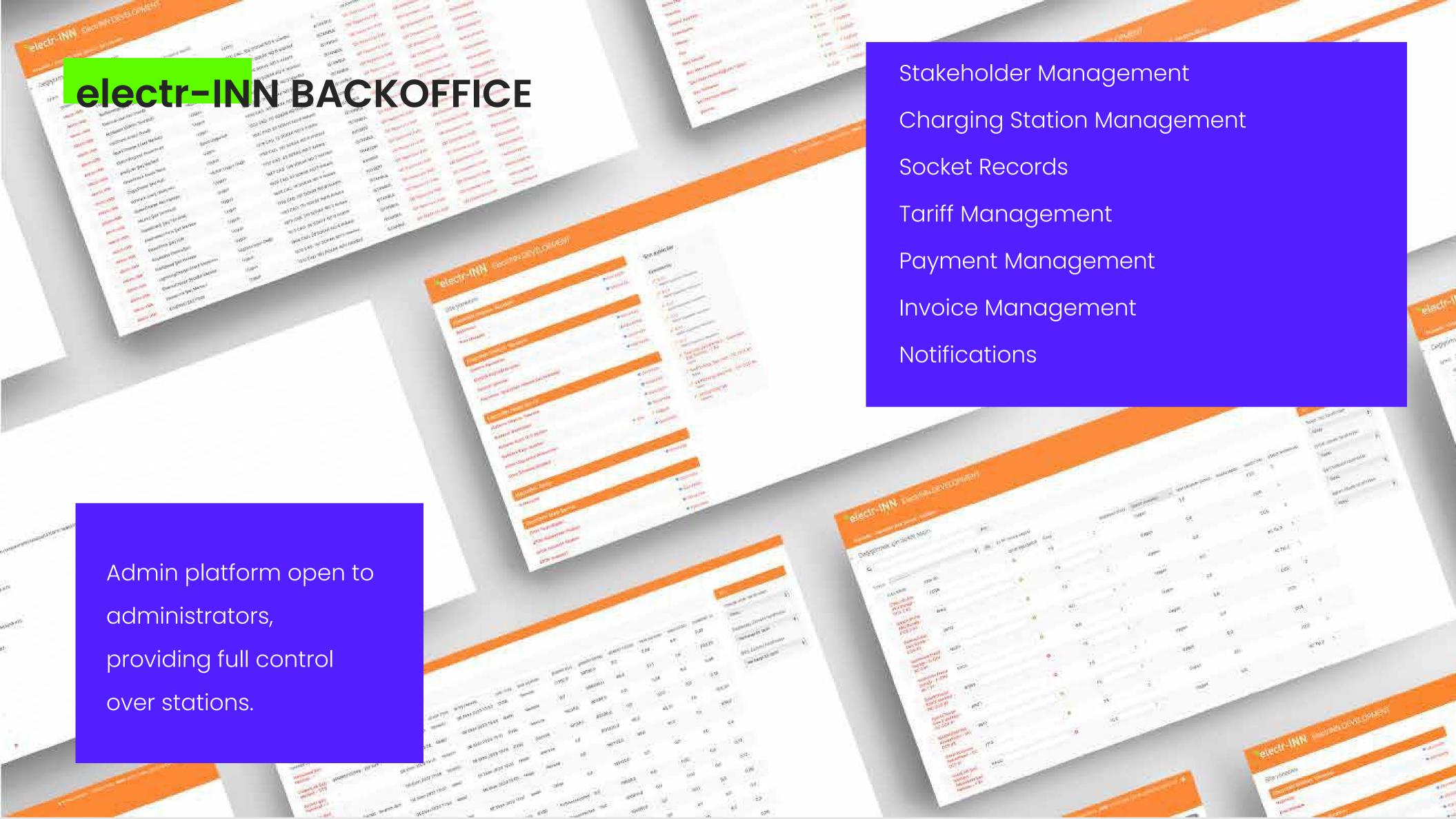
electr-INN Charging Management System
Modules









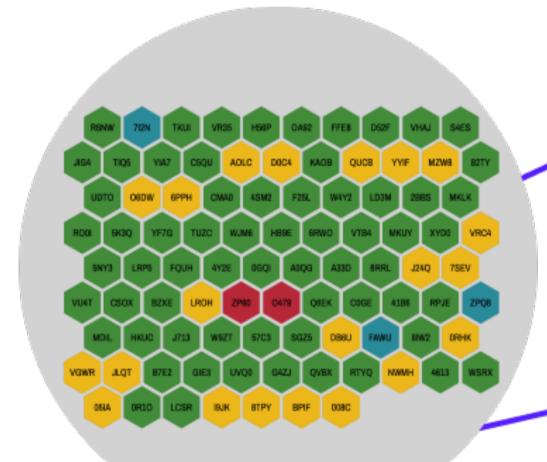


electr-INN STATUS

		*electr-INN	లి Login								
Şarj İstasyonları (Çevrimiçi: 50, Çevrimdışı: 2, Son Güncelleme: 19:00:35)											
rele							Ø				
ğlantı	Son Durum	Kısa Açıklama	Marka - Model - S.N.	Tanımlı CPID	IP Adresi	Son HB Zamanı	Kontrolců				
evrimiçi	23	AK************************************	Autel • MaxiChargerAC • N/A	AE************************************	15*****93	30 Oca 2024 19:00	© Corontale				
evrimiçi		AK*******2]	Autel - MaxiChargerAC - N/A	AE*****2G	5.*****84	30 Ocs 2024 18:59	⊙ Görüntüle				
evrimiçi	R.J	AK************************************	Autel - MaxiChargerAC - N/A	AE*******73	15******77	30 Oca 2024 18:59	⊚ Goruntúle				
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Access to and full control
of all charging areas and
points. Remote monitoring
and control.

electr-INN MONITOR



Active Charging Points

De-active Charging Points

Charging Point in Preparation

Problem on Charging Points

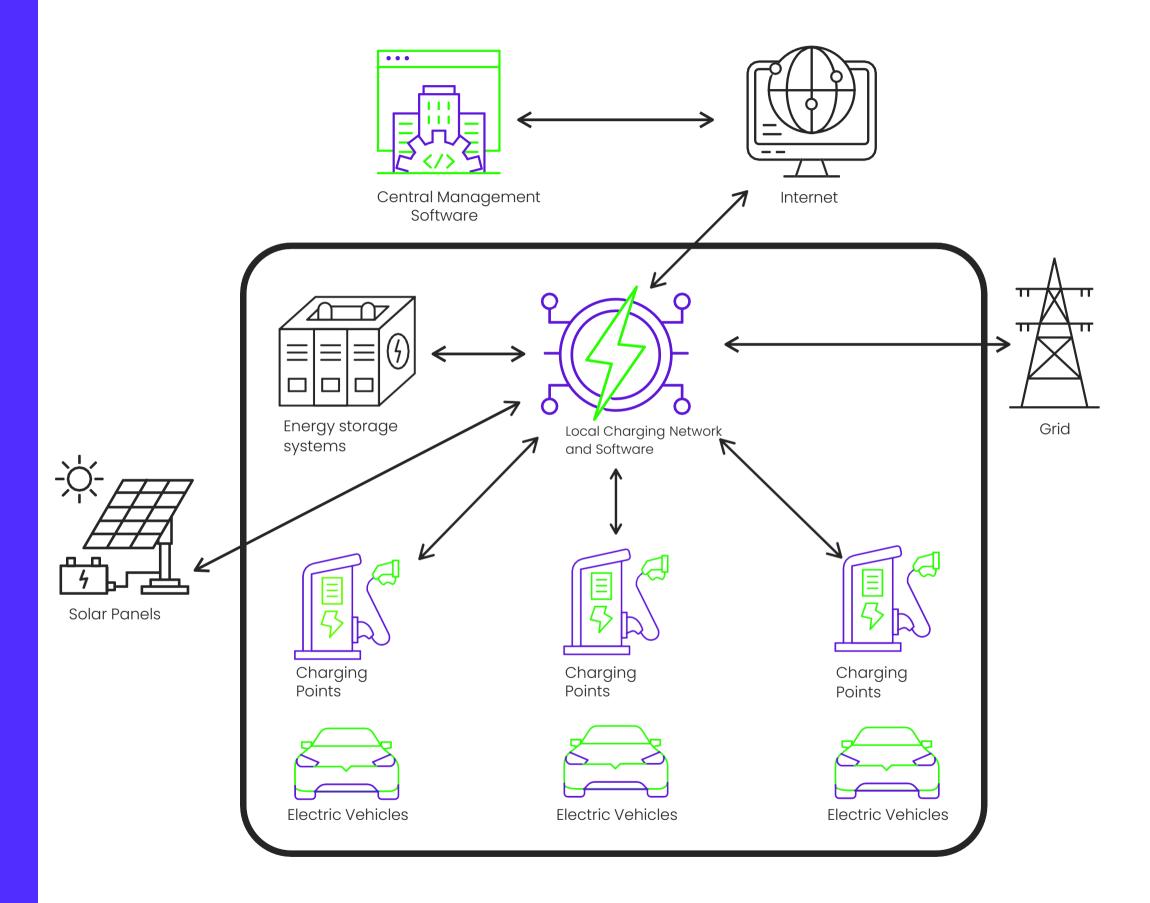
Ability to create instant checks and unique reports.

Smart Energy Management (V2)

It is believed that increasing invesment in smart grids will be part of public-private partnerships on the path to achieving the global target of halving emissions by 2030.

(IDC - International Data Cooperation)

Smart Energy Management is a Cloudbased smart charging software that uses real-time data obtained from the communication between electric vehicles, charging stations and devices, rewewable energy sources, and the grid. It enables efficient and cost-effective charging operations.





Looking for Something Different and Unique?

No problem at all! With electr-INN, every integration is possible, and there's a solution for every need.



THANK YOU!

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