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INTELLIGENT CLOUD PLATFORM FOR CHARGING OPERATION & ENERGY MANAGEMENT

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BRANDING STRATEGY

Charging network Microgrid

Mobile Energy Network
Charging Network - Smart Microgrid

Upgrade of the entire industrial chain: from EV charging to electricity ***generation, storage,management, consumption and trading***

Electricity generation

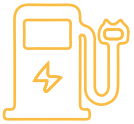
Distributed PV
station & PV car shed

Electricity storage

Power plant side
and user side ESS
Shared EDD EV

Electricity management

Smart energy management system Pilot deck of energy management



Electricity consumption

High efficient charging network Load management Integrated smart energy network

Electricity trading

User side responding
Green electricity trading

INTELLIGENT CHARGING NETWORK

THE DEVELOPMENT STAGE OF THE CHARGING OPERATION, AND THE PLATFORM CAPABILITIES REQUIRED

The differences in investment models, the evolution of the electricity market, the changes in the competitive situation, and the operation of charging stations have begun to exceed the level that can be controlled and promoted by manual and simple systems.

01.

Basic charging operation

Station management
Asset management
Equipment monitoring
Scan QR code to charge
Voucher & Coupon
Swipe a card to charge
Settlement and invoice

02.

Diversified operation growth

Enrich operational activities and cooperation in different industries
Multi type coupon Membership system, points system Community operation Online customer service
Charging of fleet and government and enterprise customers
Interconnection of traffic platform, Oems Integrated energy, green electricity incentive,brand image

03.

Smart operation

Charging safety protection
Big data product: Construction site selection Intelligent operation and maintenance
User portrait and AI marketing
Power station operation analysis
AI diagnosis for power station operation Smart pricing
Userside responding 、 Energy operation

ONE STOP SOLUTION OF INTELLIGENT OPERATION

Full life cycle asset management solutions based on big data and AI technology

Planning site selection

Charging network planning and analysis platform

Safe operation and efficient operation

Charging safety, Information safety, Data safety
Asset management platform
Enterprise level charging operation platform
One stop marketing platform
Charger owner plan
Integration of business and finance

Integrated energy

PV, energy storage, charging, discharge
Virtual power plant
Power trading forecast
City level pilot deck of energy management

Intelligent Operation

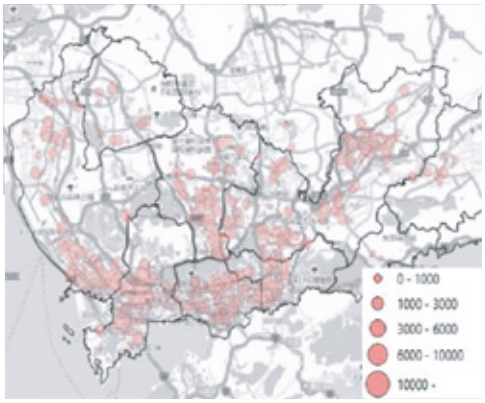
Intelligent pricing
Intelligent marketing
Intelligent charging station
GTO

Intelligent O&M

Digital O&M platform
On site service cloud
Mobile tools for engineers

CASE 1: DIGITALIZATION OF LOCATION SELECTION

Potential charging requirement map



EV charging supply map (based on charging historical data)

Big data platform

Database

- Number of EV and distribution
- Nationwide charger distributon
- High relevant POI of charging
- Uber/fleet drivers' moving track working area
- Comments on APP, location searching history
- EV related facilities (EV retail shop, repairing center, service center, ect.)

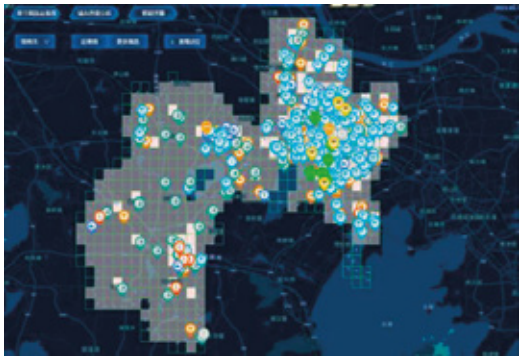
AI Location suggestion

SMART STATION SELECTION SYSTEM

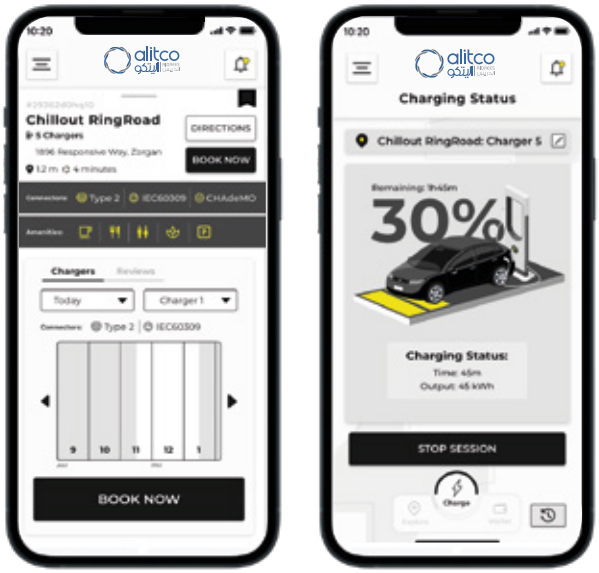
For CPO & Fleet

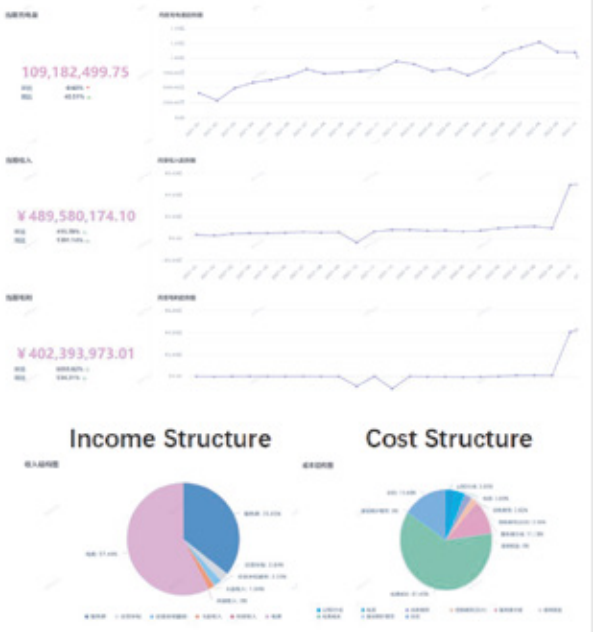
System function

- Heat map of charging potential of cities
- Station location distribution (continuous update)
- Recommend the best site of urban backbone network power station
- Evaluation of constructing a station in a custom location



CASE 2 : INTELLIGENT OPERATION
ALITCO CPO APP





CASE 2 : INTELLIGENT OPERATION ON SITE MONITORING

CORE ABILITY

- Occupation sensor and Reminder
- New user recognition Notice
- Fire/smoke detection
- Crowding level detection
- Rubbish barrier detection
- Abnormal human stay detection

ADVANTAGE

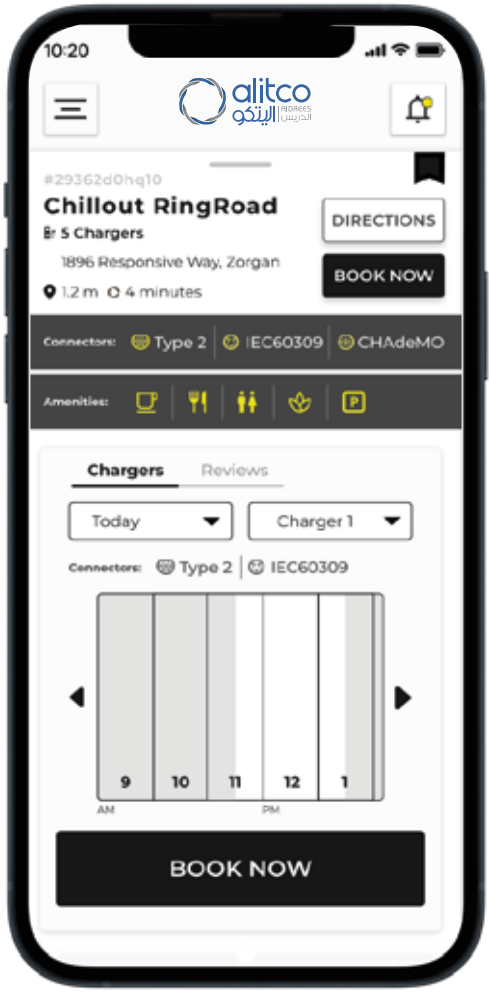
- Low cost one CCTV cover 5 6 parking lots
- Full scale monitoring
- On site voice broadcasting
- Admin message physical barriers, etc.

CASE 2 : INTELLIGENT OPERATION STATION DIAGNOSIS

Digital charging station diagnosis

Mobile version for CPO

The big data model of more than 20,000 charging stations establishes diagnostic models of different insight dimensions for different scenarios and types of charging stations, which not only helps operators see the data results, but also enables them to gain insight into the root causes and find the precise and improved operational growth path



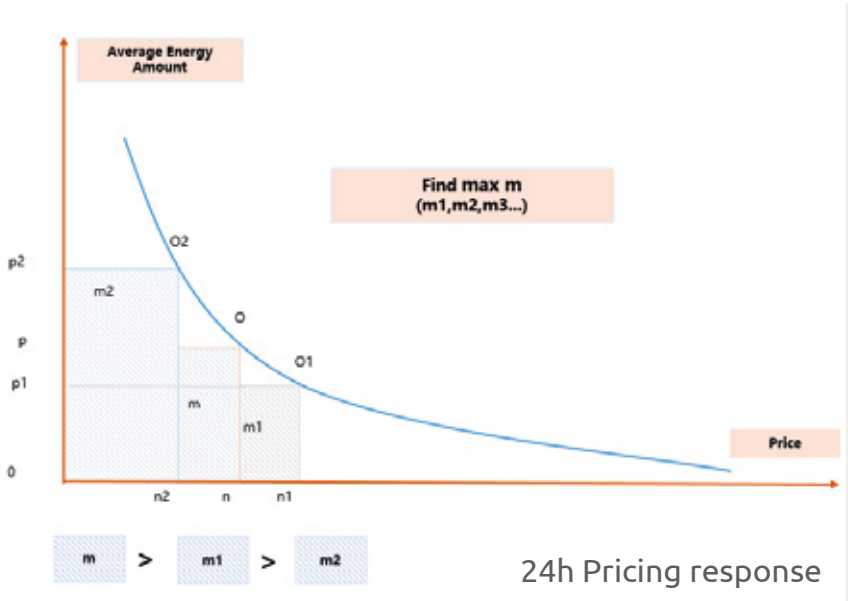
CASE 2 : INTELLIGENT OPERATION AI SUGGEST ON PRICING

Station Profile

Static :Charger number Power support
Dynamic :Fee rate changing
Demand :Station use rate

Environment

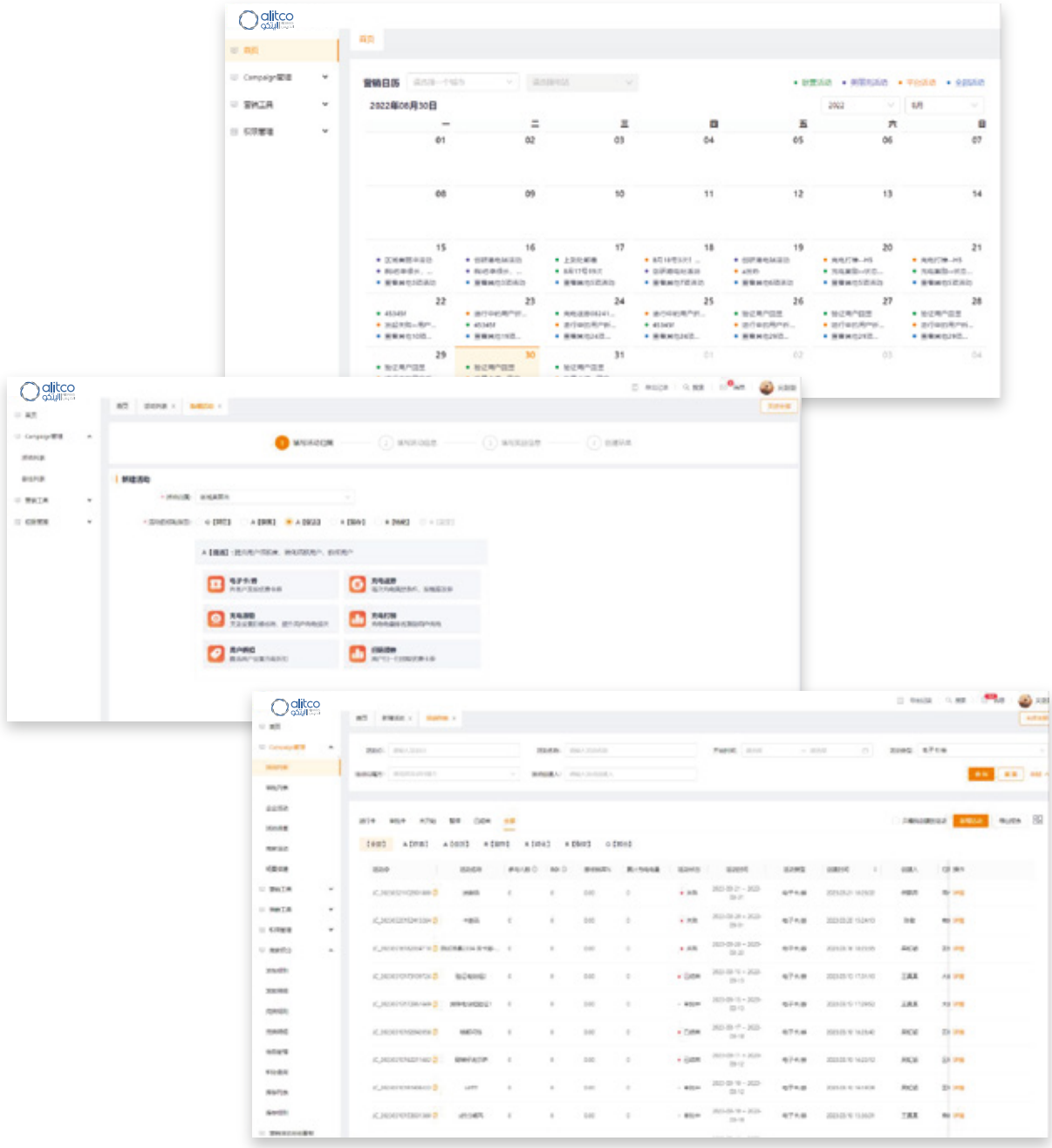
Time : day of week , hour of day
Location : City, area, zone
Real : time Temporary event 、 Weather



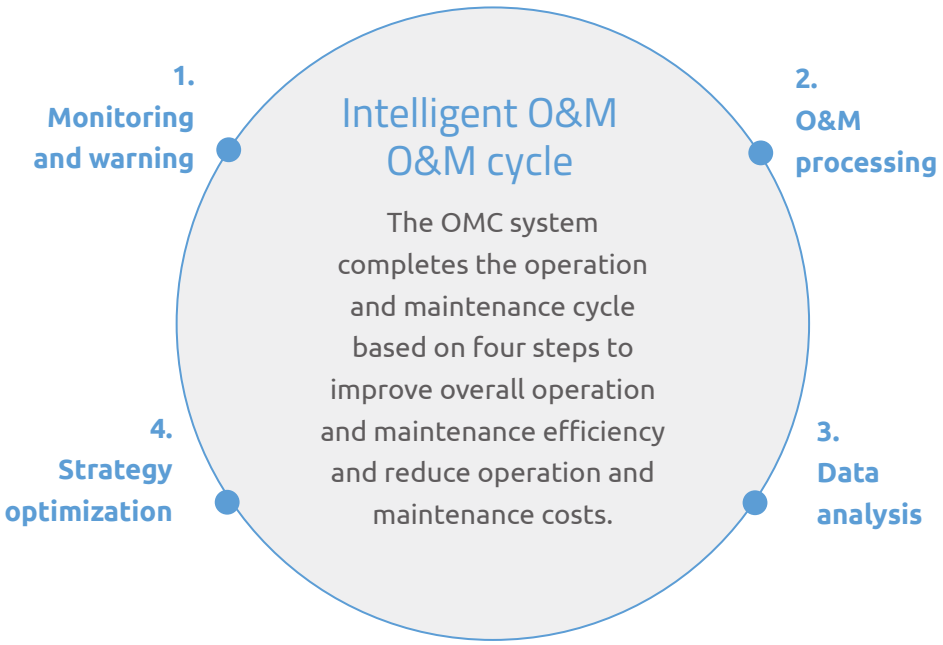
24h Pricing response

USER PORTRAIT AND AI MARKETING

Use massive data to build user portraits, implement differentiated marketing plans for different types of users through intelligent marketing models and established strategy data intelligent algorithms, and achieve operational activity improvement and GMV g rowth.



INTELLIGENT O&M SYSTEM FOR CPO & O&M SERVICE PROVIDER



Intelligent O&M management

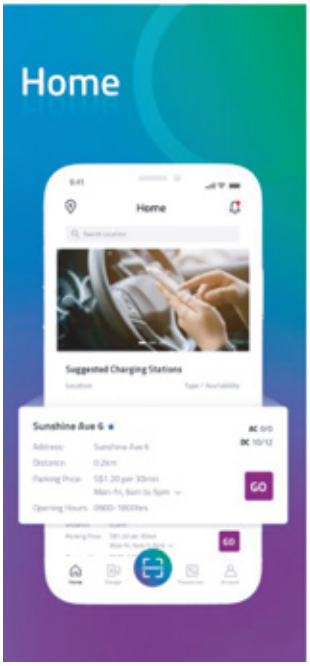
Platform event monitoring, automatic classification, O&M emergency division, intelligent distribution of work order, O&M life cycle monitoring.

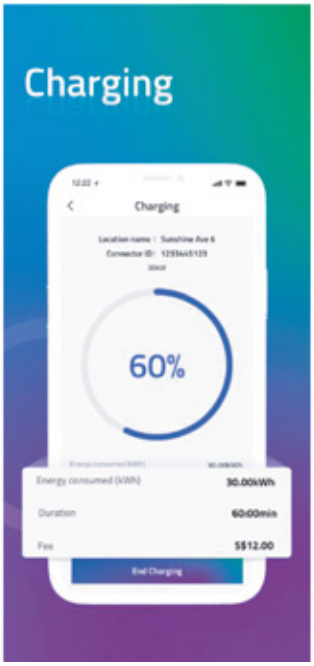
Intelligent monitoring

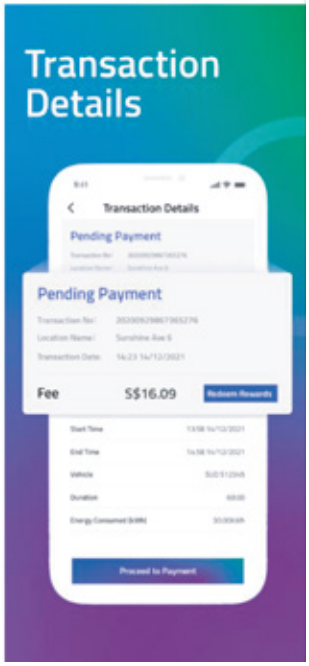
Platform event monitoring, automatic classification, O&M emergency division, intelligent distribution of work order, O&M life cycle monitoring.

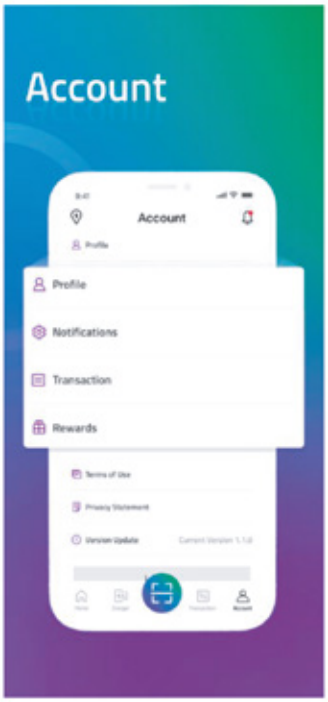
- Module output voltage and current
- Module internal temperature
- Module category and S/N number
- Module failure time and failure code
- Total module running time

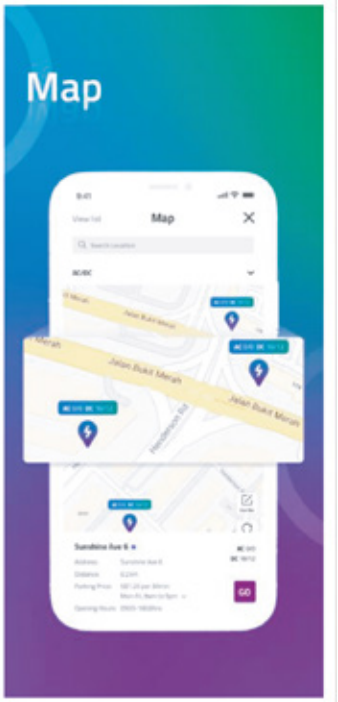
CHARGING APP
FOR EV USER



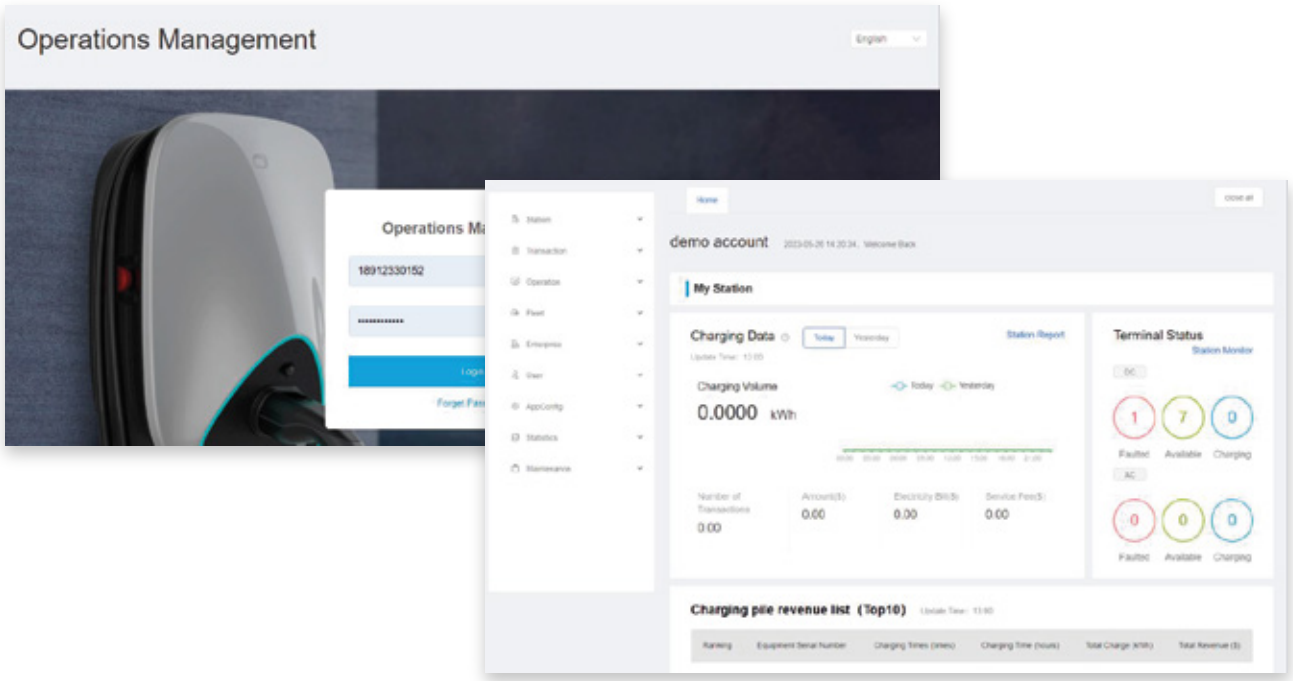


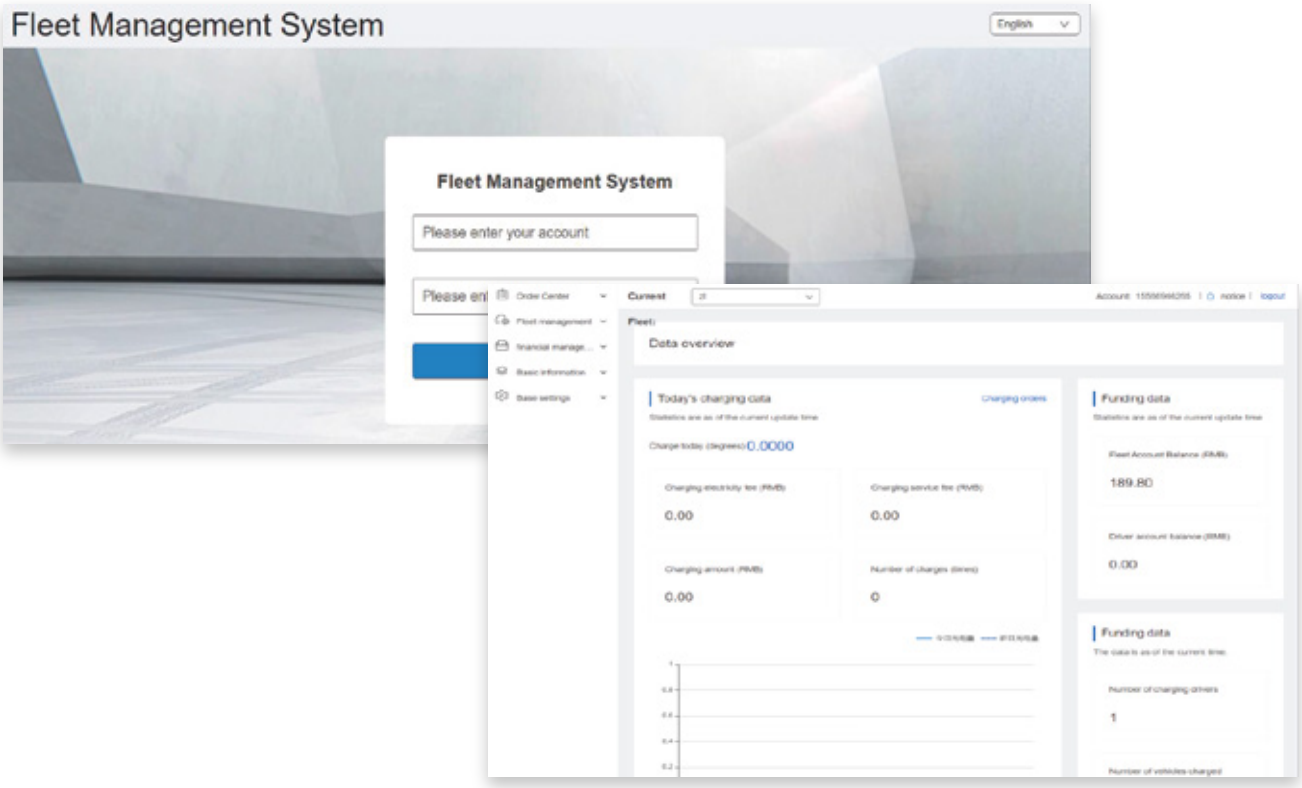






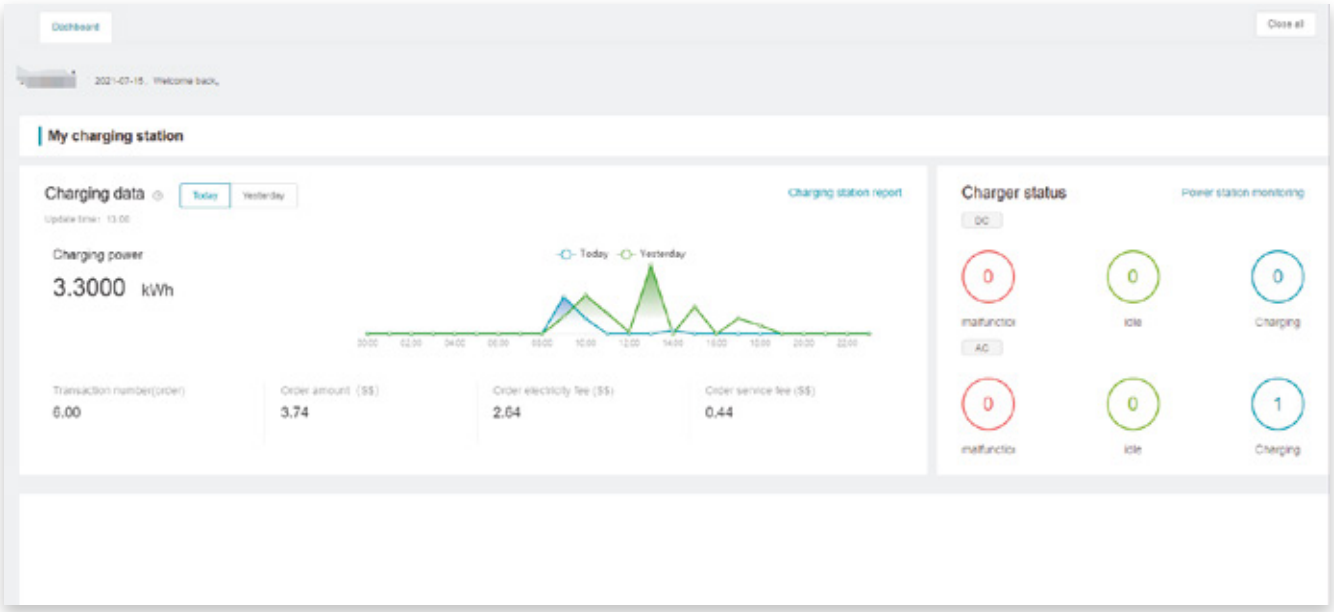
CSMS
FOR CPO & FLEET





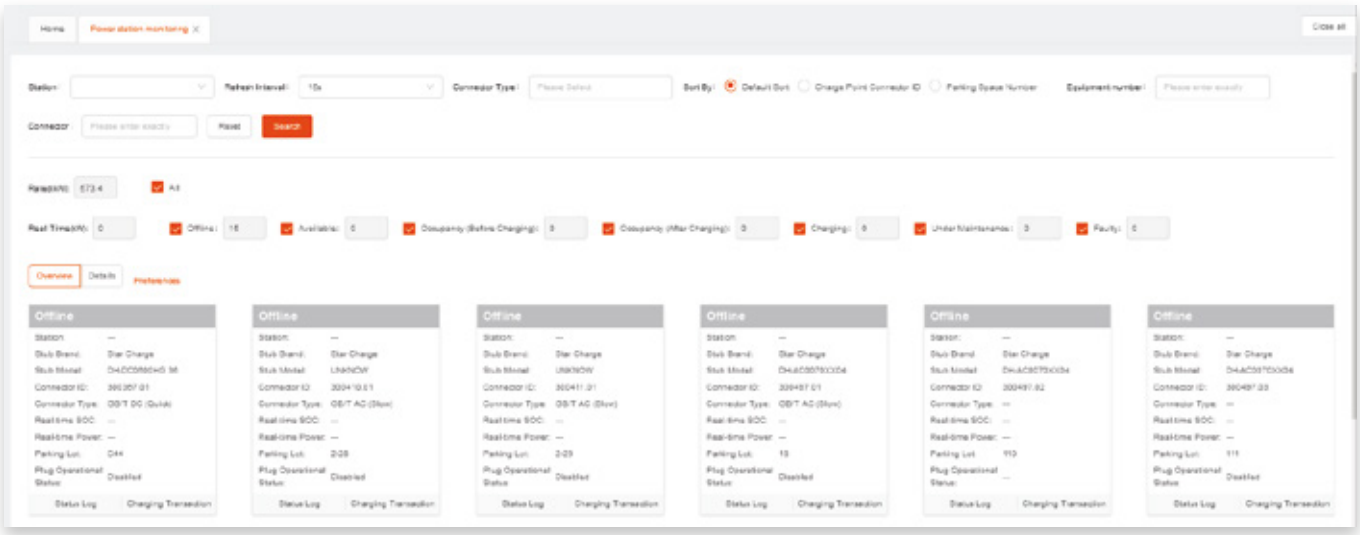
Dashboard

- Collect data and generate a highly integrated dashboard
- Fast operation buttons
- Daily and monthly report



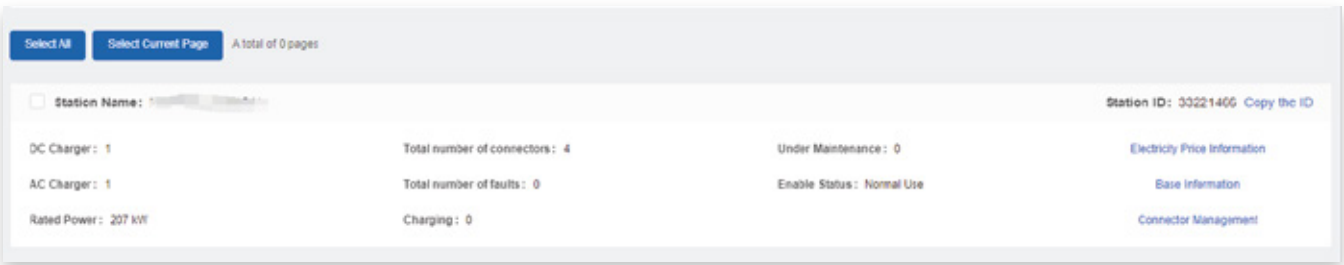
REAL
TIME MONITORING

From monitoring interface, operator is available to monitor detailed information of each charging connector, and CSMS support brief & detailed mode for different scenarios.



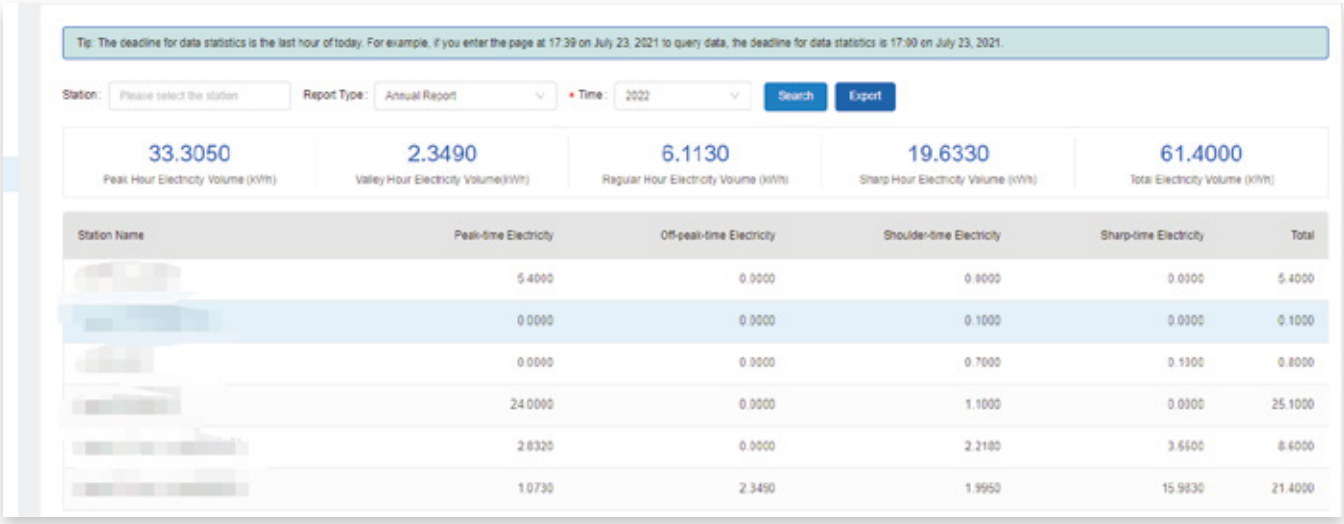
STATION MANAGEMENT

- Station map mode to view the number of sites in the area and their real time status
- Manage station information and status, check the charging orders
- Check the equipment list and real time status
- Set up separate charging rules or tariff strategies for different stations/charger groups



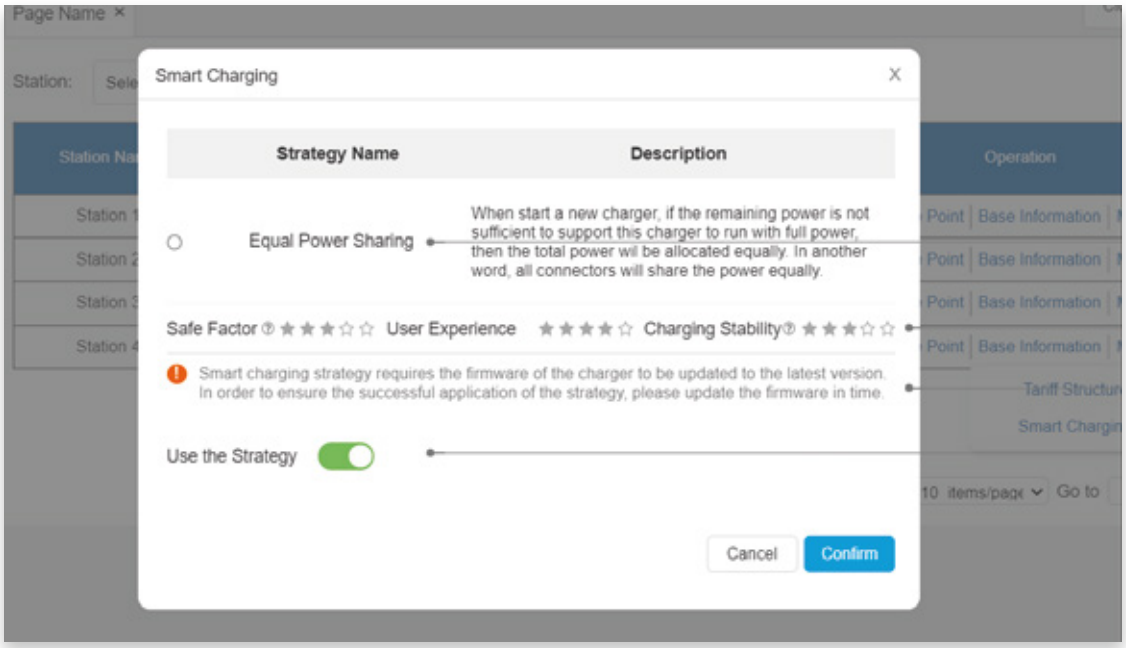
DATA REPORT

From monitoring interface, operator is available to monitor detailed information of each charging connector, and CSMS support brief & detailed mode for different scenarios.



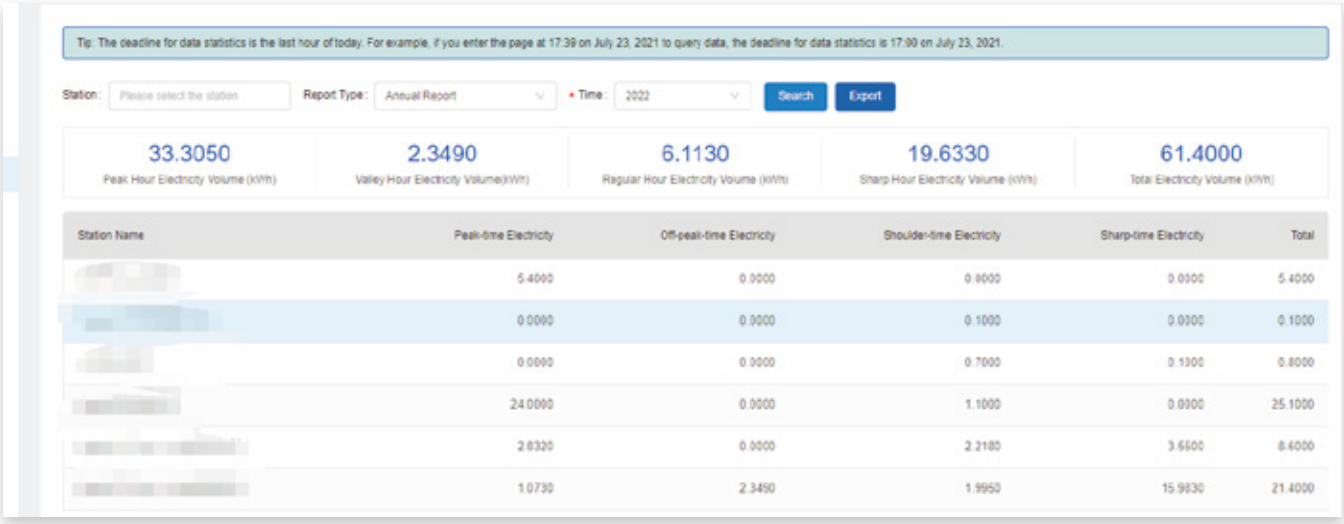
POWER SHAVING (SMART CHARGING)

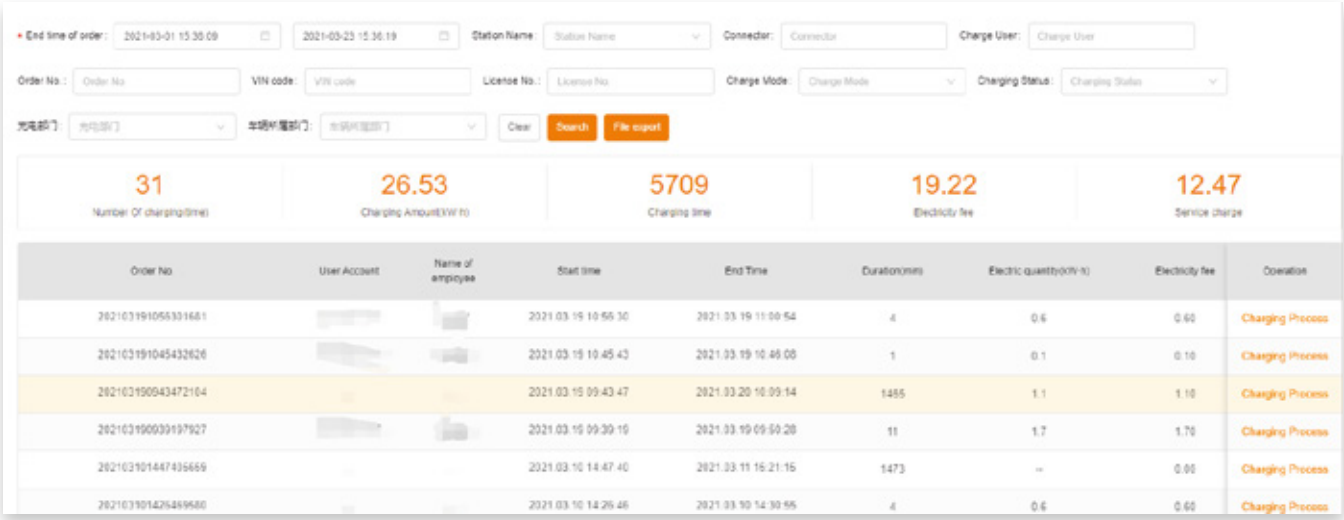
Multiple dynamic load management strategy helps operator optimize their income and protect the power grid



TRANSACTION MANAGEMENT

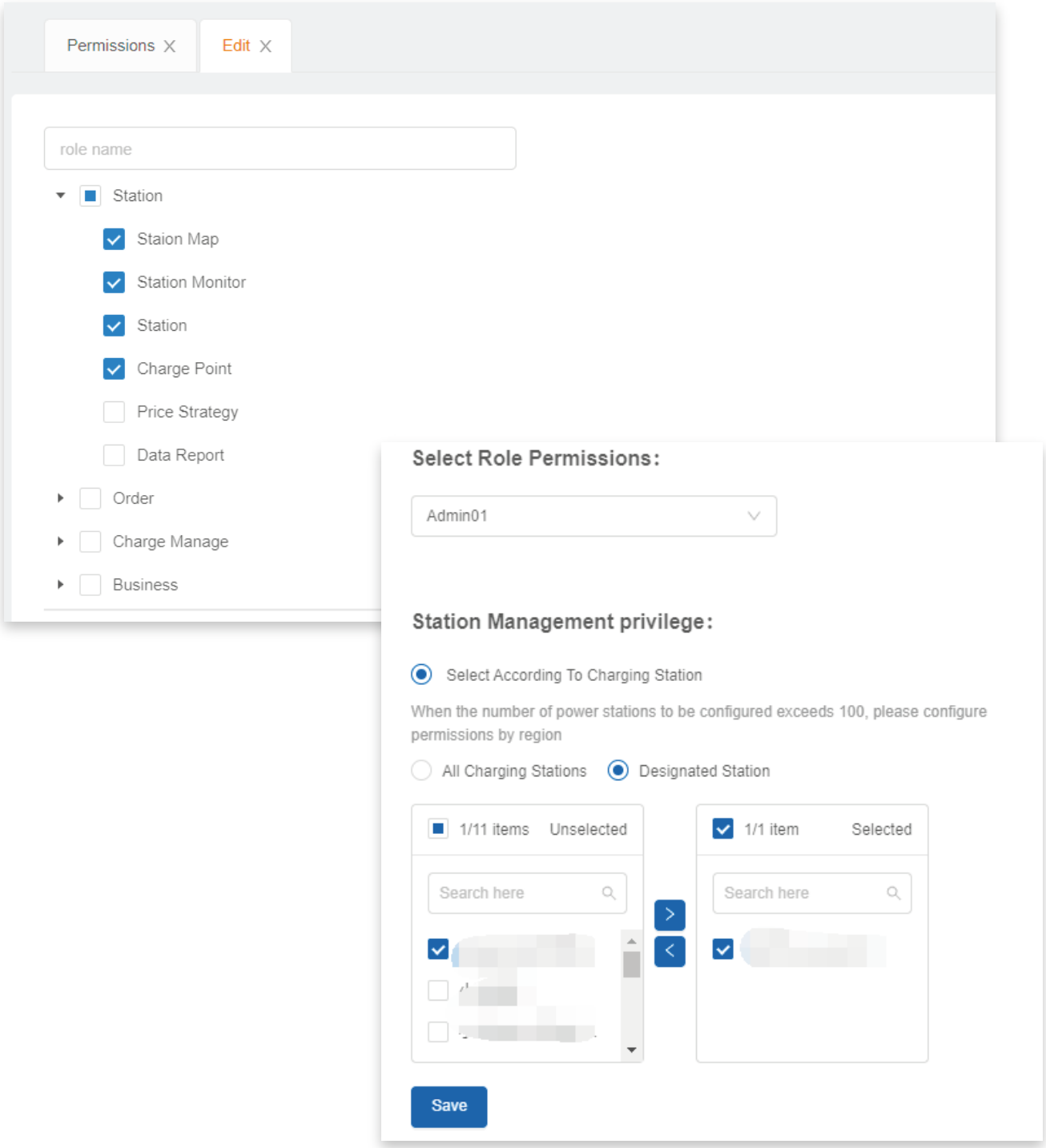
- Multiple condition query: Order number, pile group name, date and other conditions
- Check detailed information for each orders
- Query enterprise internal order and public charging order separately





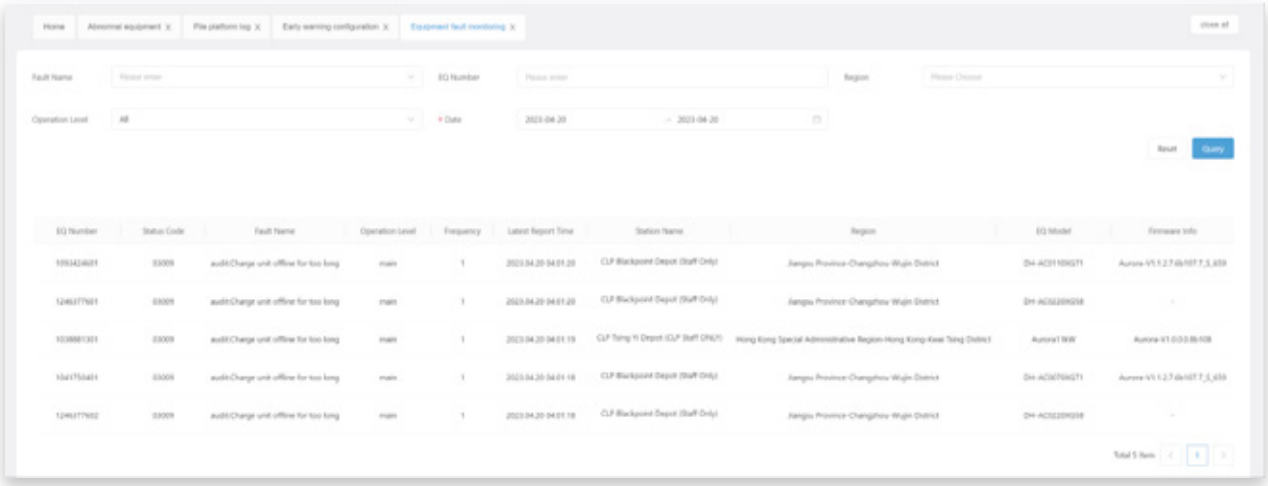
ROLE & ACCESS MANAGEMENT

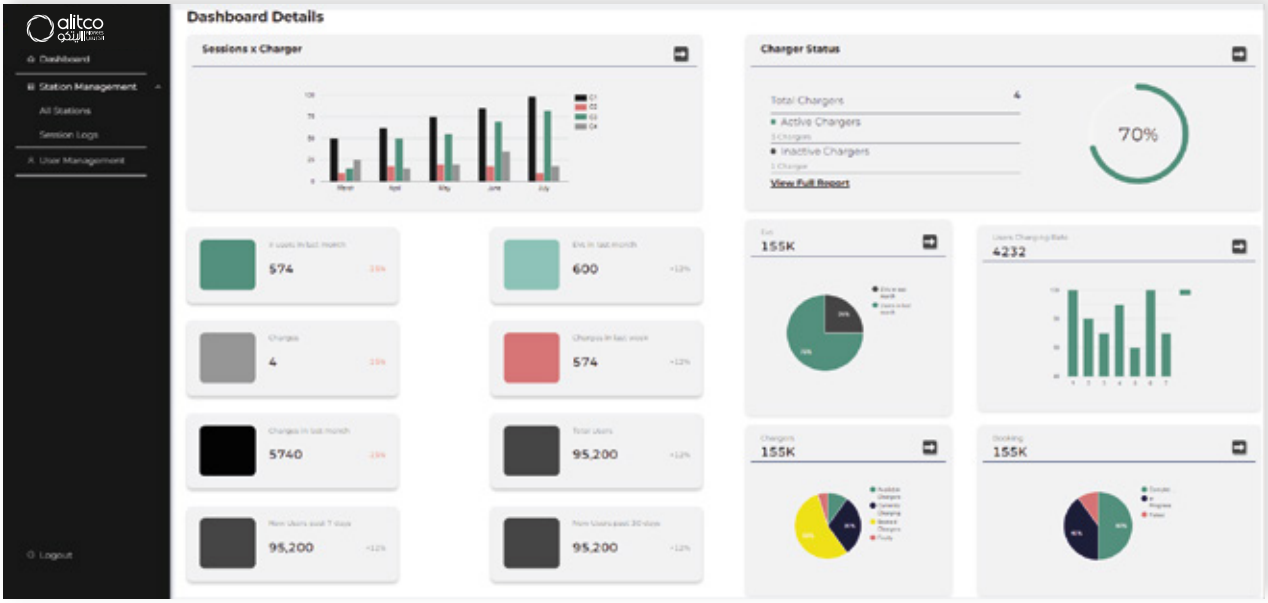
- Provide different staffs with different menu access or different station management access



FAULTS MONITORING & EARLY DETECTION

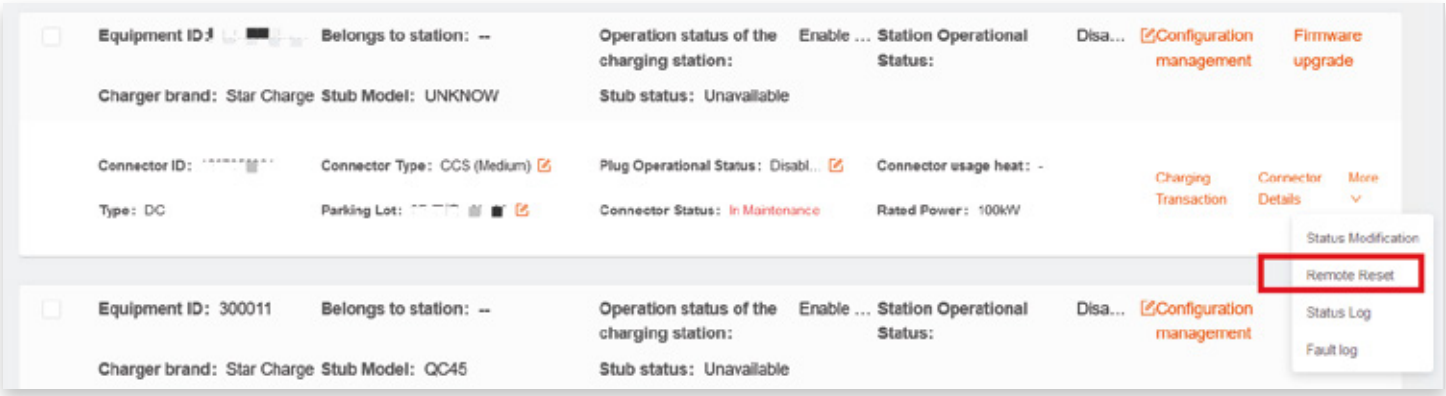
OCPP defined some faults that charger may report relevant fault code positively and CSMS may able to record all fault code history and alarm to relevant department or staff (by SMS,Email, API





SOFT RESET

CSMS is available to send reset command to lead charger restart without power off, so that may fix some faults remotely

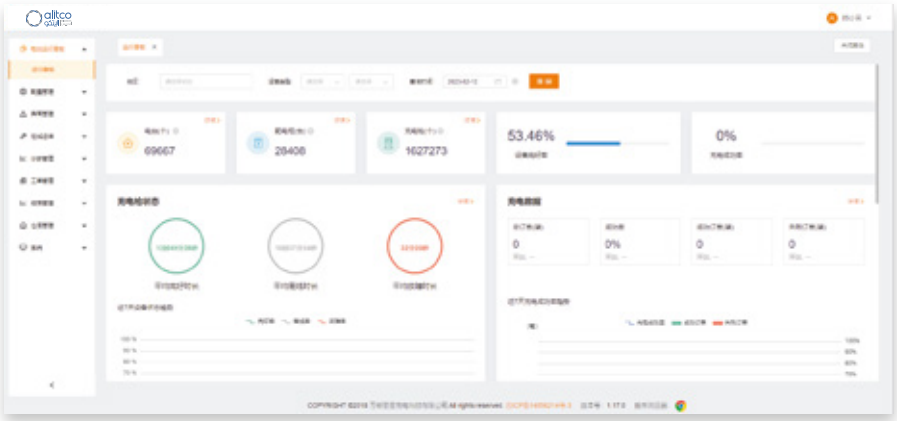


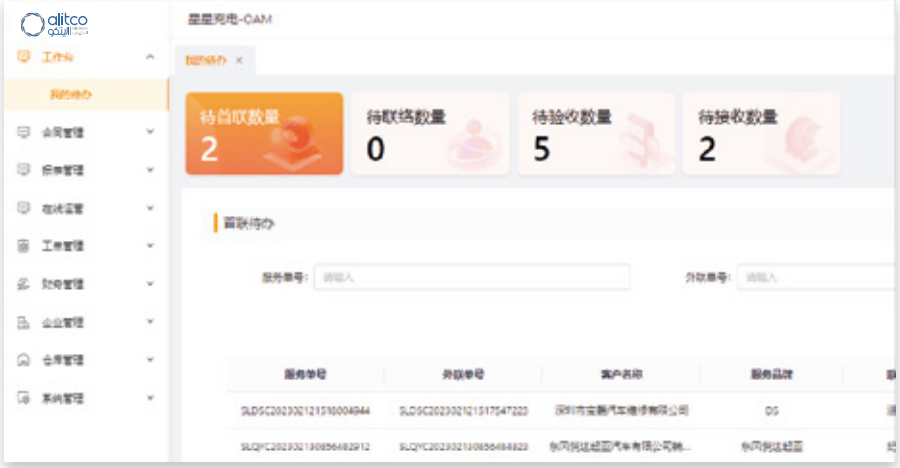
INTELLIGENT O&M SYSTEM FOR CPO & O&M SERVICE PROVIDER

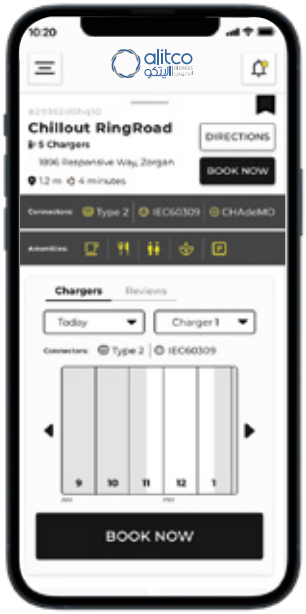
27000+ Monthly processing ticket

70% Remote finished ticket

20% Automatic create ticket







CYBERSECURITY CERTIFICATIONS

- ISO27001 Information security system certification
- ISO27701 Privacy Protection System certification
- Charging cloud platform national network security Level protection Level 3 certification
- Energy cloud Platform national network security level protection Level 3 certification
- SaaS platform national network security Level protection Level 3 certification

WHAT ALITCO OFFER

WE OFFER SOFTWARE PACKAGES TO:

Parking

Petrol Station

OEM

Key Account

Real estate

Public Transportation

Government

Fleet

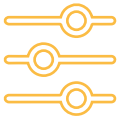
Refine customer operation, reduce daily management costs, and improve charging service efficiency

Multi Language:
Whether you prefer Arabic,
English or any other language,
our mobile solution allows you
interaction in your preferred language

Remote Software Update:
Updating your EV Charge point
is now easier and faster than before
through over the air updating.

Static and Dynamic Load Management:
Our load management system
is perfect for areas that have
difficulty in upgrading their
infrastructure to allocate for chargers.

My Vehicle:
Choose your vehicle from our
list of EVs available and get
access to more data about your
car and filter the chargers accordingly.



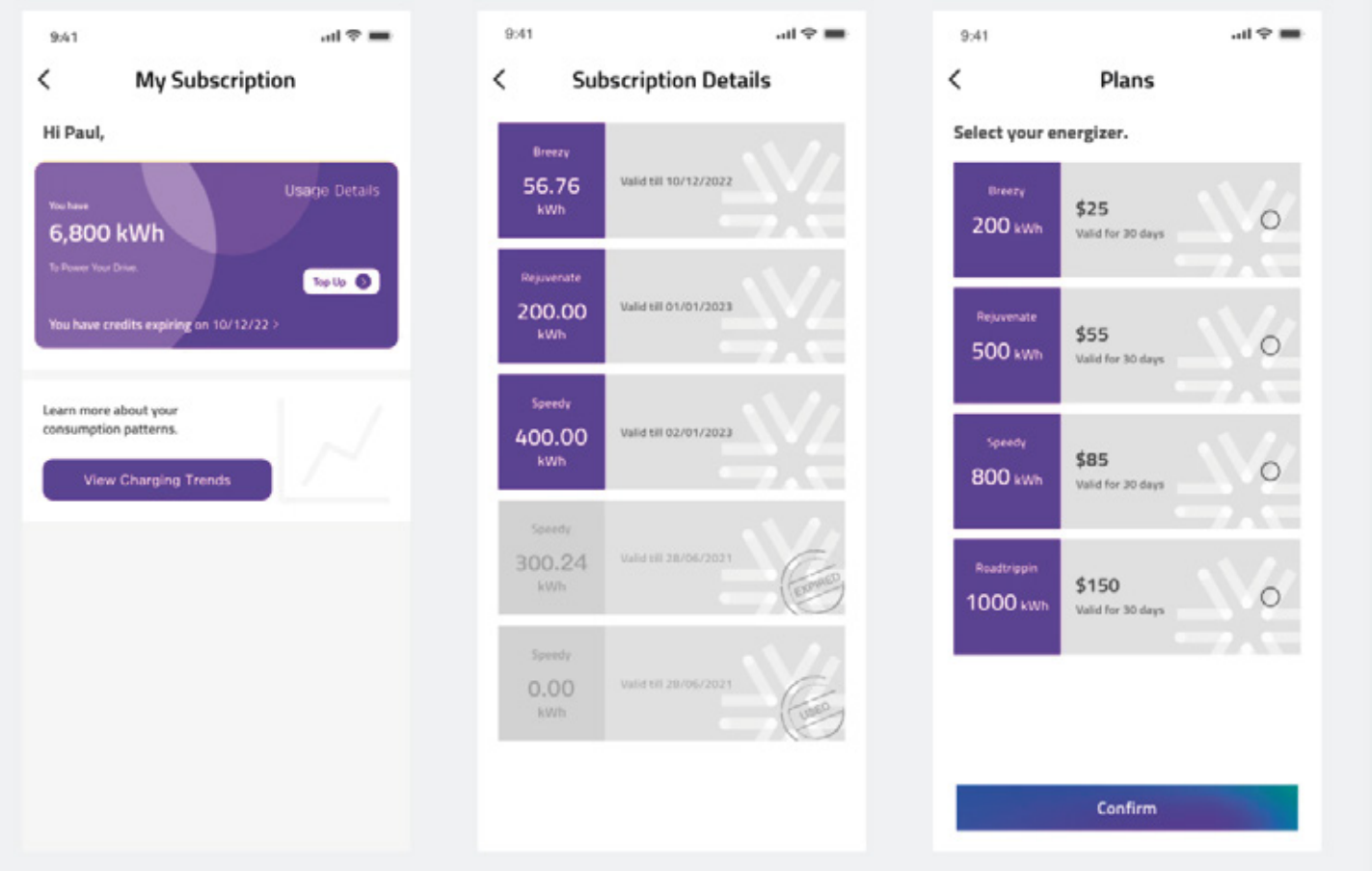
Advanced Filtering:
Through our filtering system you
can either manually filter or our
system can filter based on your
vehicle specs.

API Integration:
Building an integration layer
allows us to easily integrate
our system to other or vice versa.

Remote Start Stop:
Through chrgd you have
the option of remotely starting,
stopping or rebooting any charging
station from the comfort of your office.

Charger Status:
Through our easy to use UI and UX
you can see your entire network
and status of each charge point.
Whether the CP is available,
busy or faulty you see everything
right away.

Subscription plan



THANK YOU