# Fast EV Charging Station Introduction

Product by Innovation

Winline Technology

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# Key factors

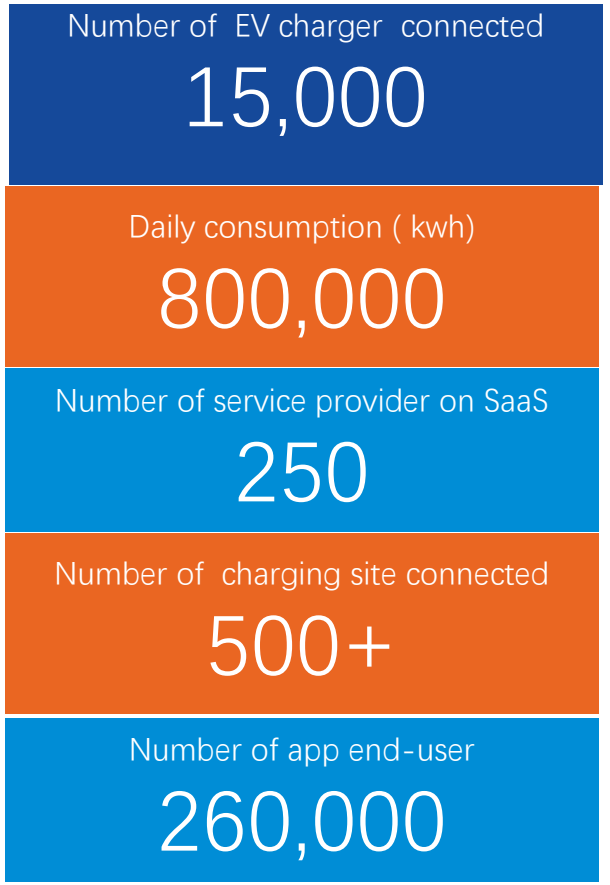

## Company overview

Started 2007 as pioneer in renewable energy market in China, our company focus on EV charging module, fasting EV charging stations, High–Voltage DC power supply for IDC and Energy storage systems.

**Award winning leading technology innovator in high performance EV Charging module.**

**Top 2 - number of EV charging modules delivered in China, 160K units delivered in 2020.**

**Operating SaaS (software) platform serving 250+ operators and 500+ stations across China.**



# Our Business

## Charging Module

- AC/DC Power conversion efficiency 96.3% No.1
- Operation in -40℃ harsh environment No.1
- 50Kw Single module power No.1
- China market share No.2
- 2- Level Centralized Energy Storage Inverter
- In-house R&D with own IPR

## EV Charging Station

- Highest specification with 16 key parameters greater than standard
- AC/DC Power conversion efficiency 96%, highest in industry
- High reliability and flexibility
- In-house R&D with own IPR
- Europe, Japan, US standard compliant
- 1st 3-in-1 Solar-Storage-Charging in China

## Energy Storage System

- 3- Level Modular Energy Storage Inverter, 1st in China
- Virtual Synchronous Motor Control

## HVDC Power Supply

- IDC Power Support
- High-efficiency
- Reliable modular design

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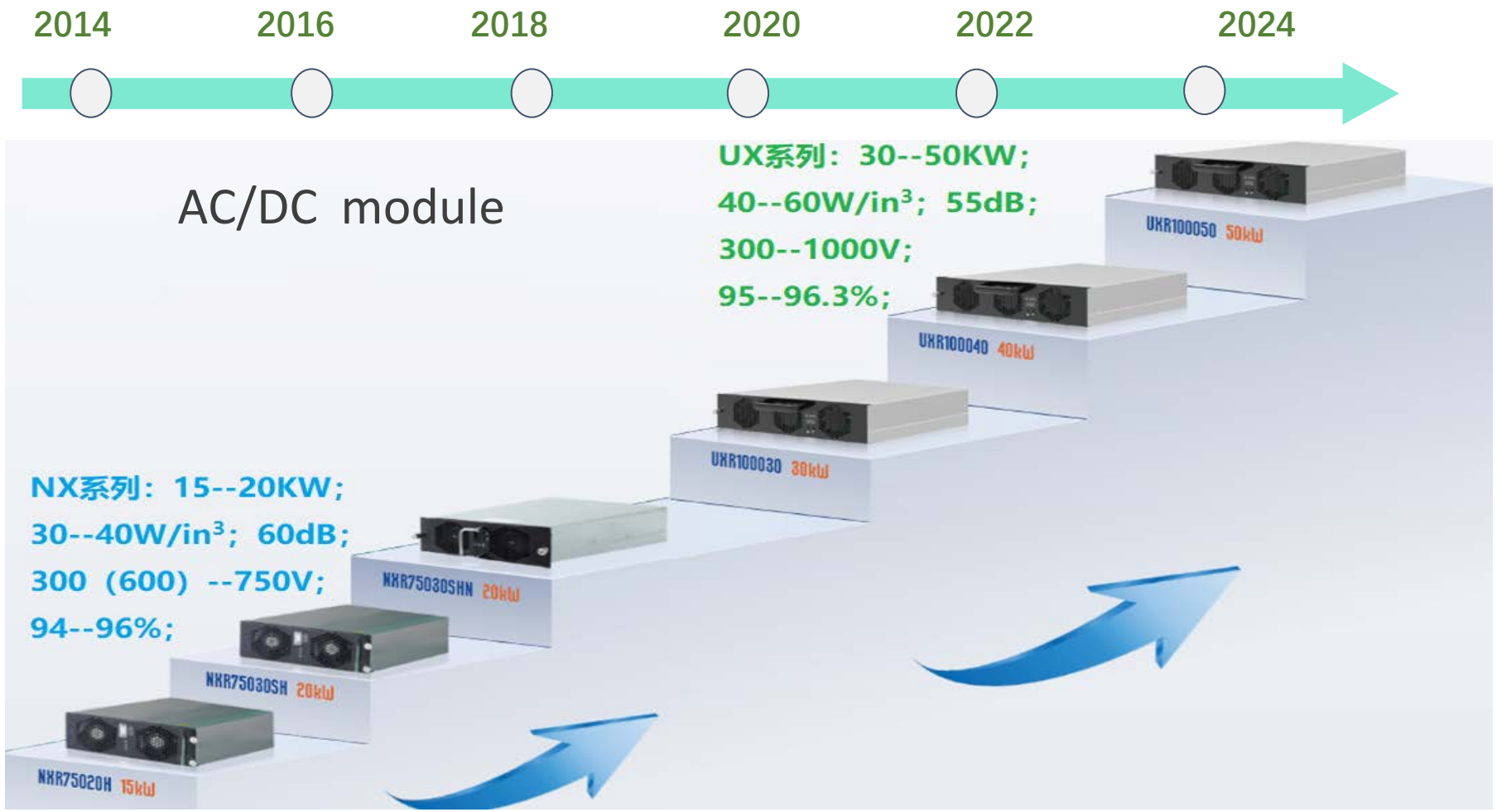
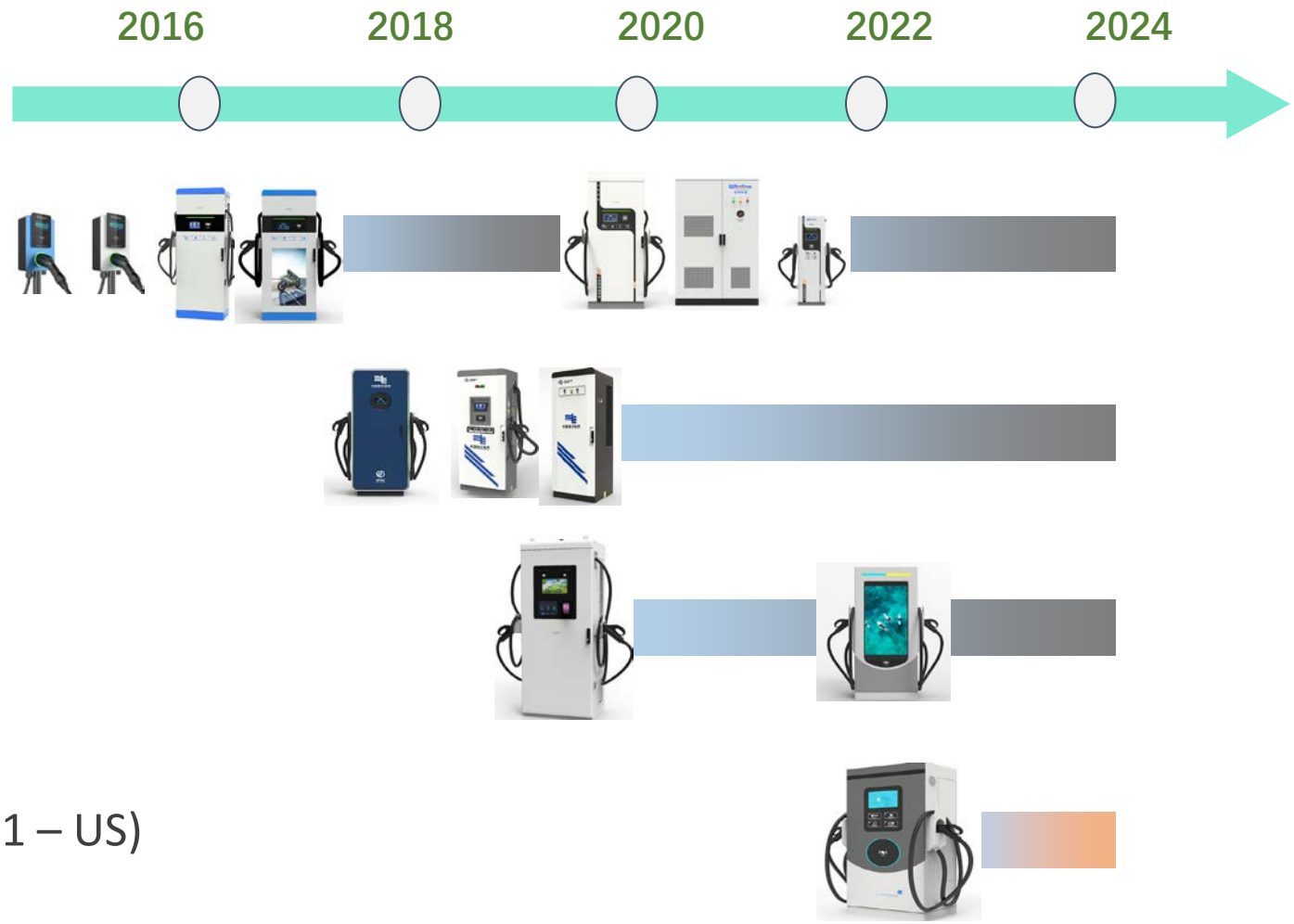
# Product – Power Module



# Product - DC EV Charging Station



# Product UX  series Latest Product Line

## Features - Time and power saving, to put you at ease

### High Performance
Fast charging (200kW-400kW+)

### Power Efficiency
High conversion efficiency and low standby power consumption

### Safety
Dual protection to protect both human operation and vehicle

### Environment Friendly
Noise <65 dB

**Most reliable**
High reliability and low failure rate with low operation and maintenance costs. Always available, easy to use and profitable.

**Highly efficient**
Efficient and power saving.
Low levels of heat consumption, heat loss, overall power consumption, and operating costs.

**Highly secure**
Dual protection and active protection features ensure constant power output at different voltage and operating temperatures.
Safe, with no fire or electric shock risks.
Secure network and supply.

**Environment friendly**
Quiet and easy to use. Environmentally friendly

**Quick charging**
Constant power output at different voltage and temperatures. Quick charging capability in all scenarios. Allocates power on demand.

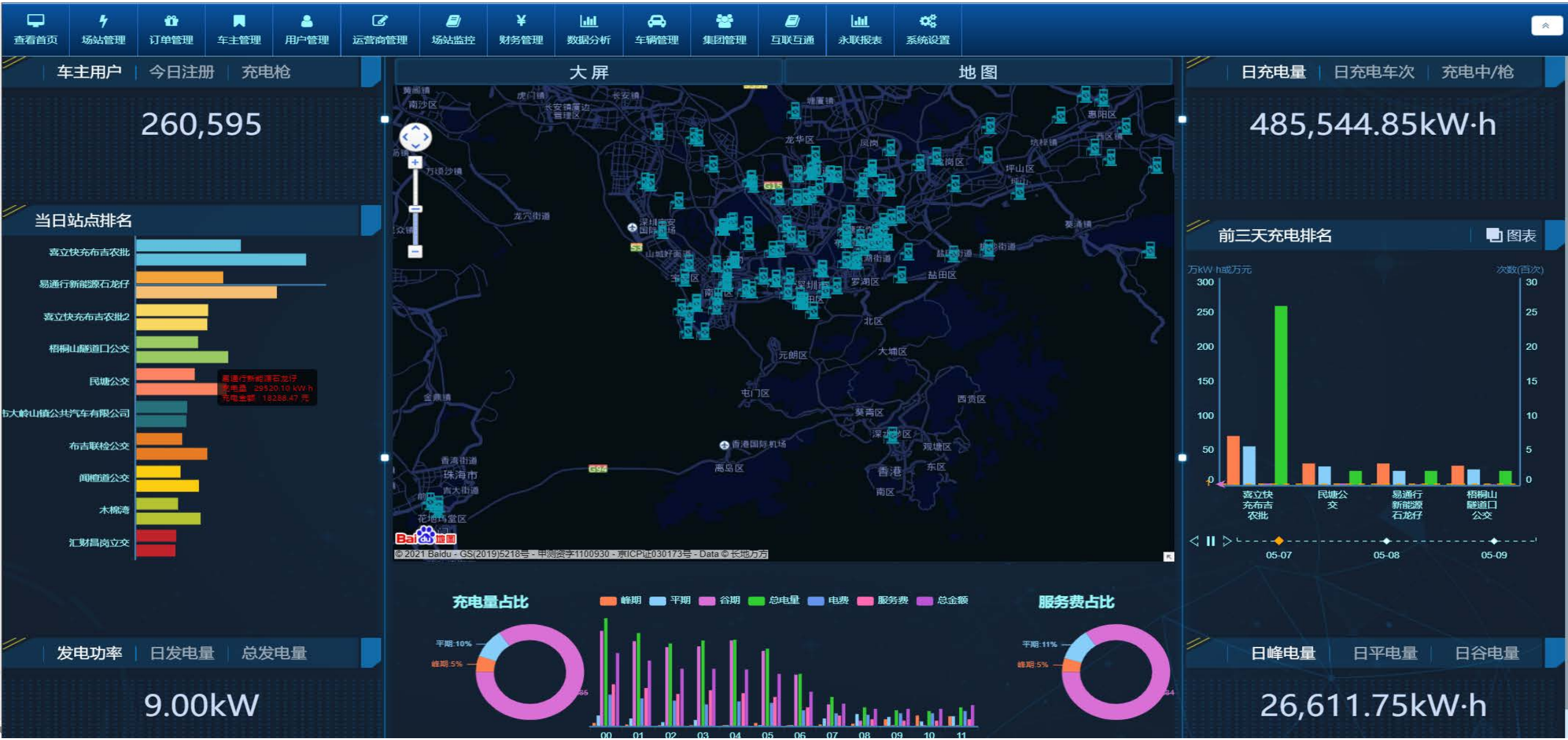
**Intelligent**
Intelligent connect multiple operating devices with information-based remote operation management.

# Product - UX series Latest Product Line

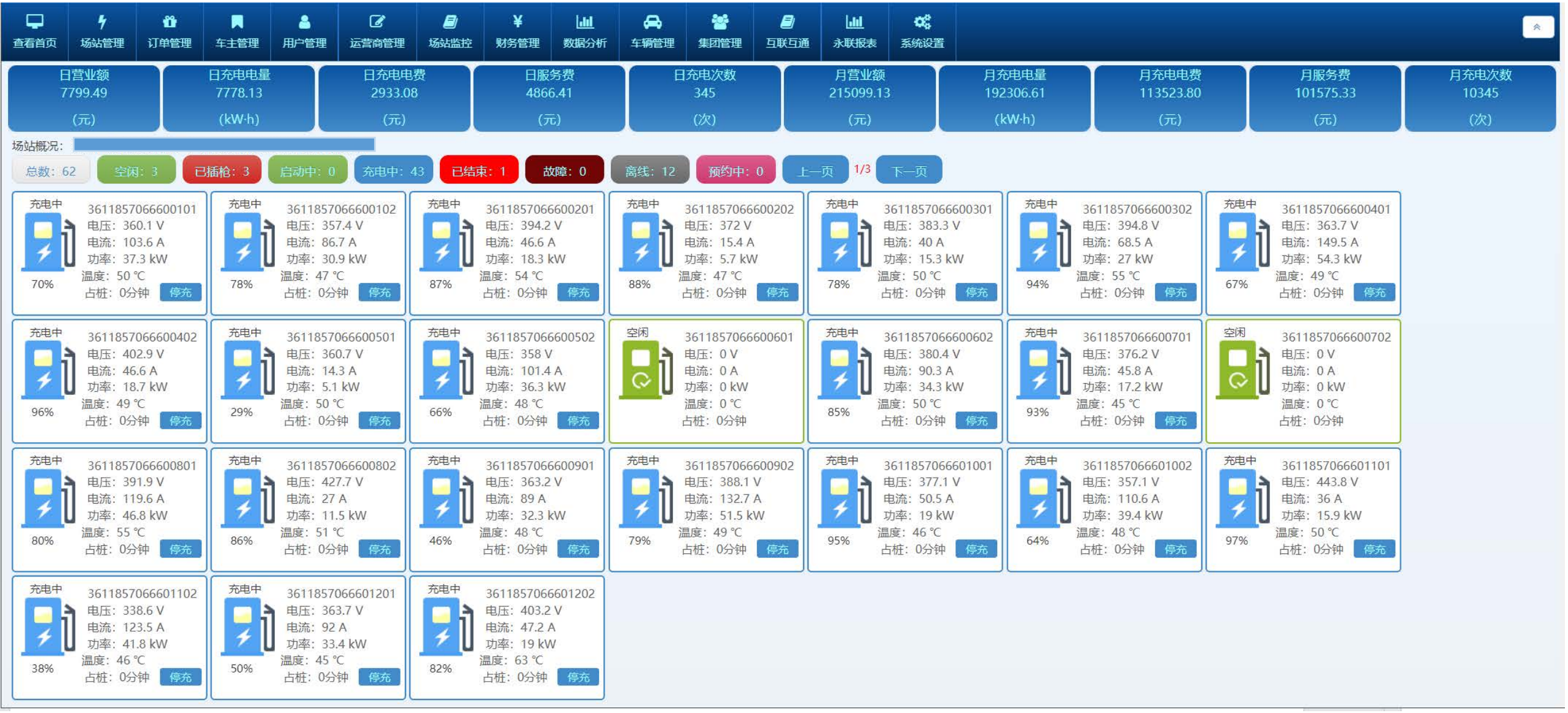
Stand-alone
Charging Station

Detached Multiple
Charging Station

# SaaS Operation Platform



# SaaS Operation Platform



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# Case Study - China

## ■ Background

Partner with Shenzhen Bus group, a tier-1 municipal  bus groups  to adopt integrated photovoltaic, energy storage and charging technology solutions in the past years. Built a strong urban public transport system and EV charging network with big data operation platform. The project has won a number of awards in EV charging stations and technology innovation in China.

## ■ Project Scale

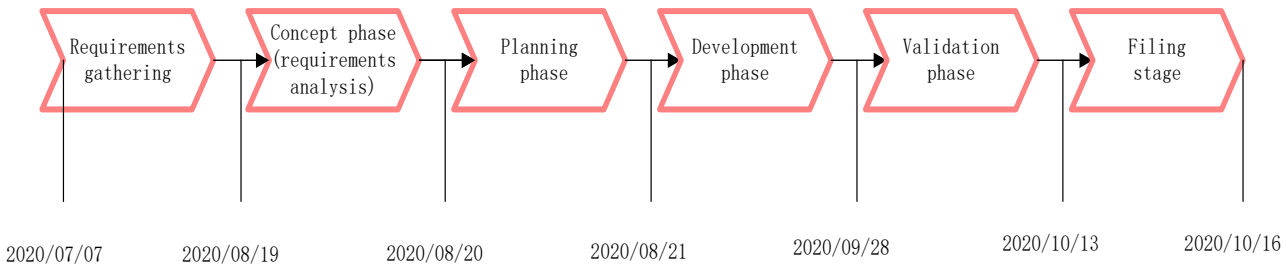
- ✓ 40+ Bus stops ( charging stations)
- ✓ 2,500 public buses and 1,500  public taxis  in Shenzhen city
- ✓ 14m  kWh consumption monthly
- ✓ 7x24h  operation support with SaaS platform

# Case Study - UK

## Background

Partner with a local operator, we designed and delivered the integrated EU-Japan standard DC charging station products to UK within 5 months.

## Project Timeline




New demand upgrade

update

120kW(CCS2+CHAdeMO)

## Project Scale

- ✓ Phase I : 400+ units
- ✓ Customization done for:
  - ✓ Display screen; Functionality of the operating interface
  - ✓ Credit Card payment acceptance
  - ✓ Optimized structural design
  - ✓ Optimize control and communication software architecture

# Case Study - Volkswagen

## Battery Energy Storage Mobile EV Charging Station

### Volkswagen Group forms joint venture to build fast charging stations for Chinese market

Posted April 20, 2020 by Charles Morris & filed under Newswire, The Infrastructure.


Volkswagen Group Components and startup Shanghai DU-POWER New Energy have formed a joint venture to produce "flexible quick charging stations" in China. The two companies will each own 50% of the JV, which will be located in the Suzhou Wuzhong Development Zone, near Shanghai.

# Partners


STATE GRID CORPORATION OF CHINA


中国南方电网
CHINA SOUTHERN POWER GRID


SHENZHEN BUS
深圳巴士集团


Taxi
鹏程电动


Potevio
中国普天


客货中心


四川能投


中国大唐集团公司
China Datang Corporation


深圳能源


三峡新能源
Three Gorges New Energy


CEEC
中国能建


YUDEAN
粤电集团


北控洁能


中国节能


中广核 CGN


中国华能
CHINA HUANENG


中国国电
CHINA GUODIAN


充之鸟


科陆电子


博耀科技
BOYAO TECHNOLOGY


EAST 易事特


弗斯特玛帮
FIRST CARAVAN


瑞源电气
RuiYuan Electric


TESSONNE
天臣新能源


新阳蓝光


鹏跃充电
PENGYUECHARGE


鸿嘉利


国文电气


NARI
国电南瑞
NARI-TECH


ZTT
中天科技


OWONE
利旺科技


陕汽集团
品质成就未来


LonDian
龙电鑫驰


Flight-E
Beyond Yourself


RePower 瑞能

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