## XCHARGE PRESENTATION

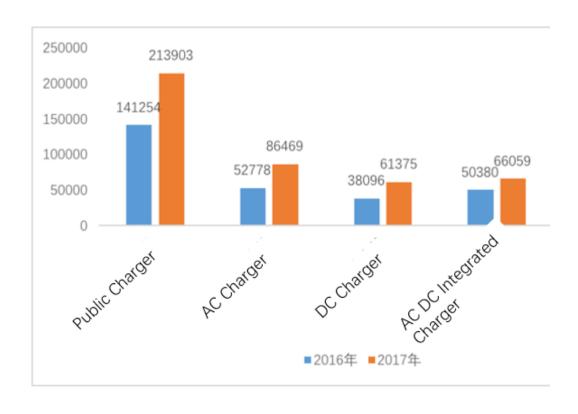




High Power Charging and EV Experience from China

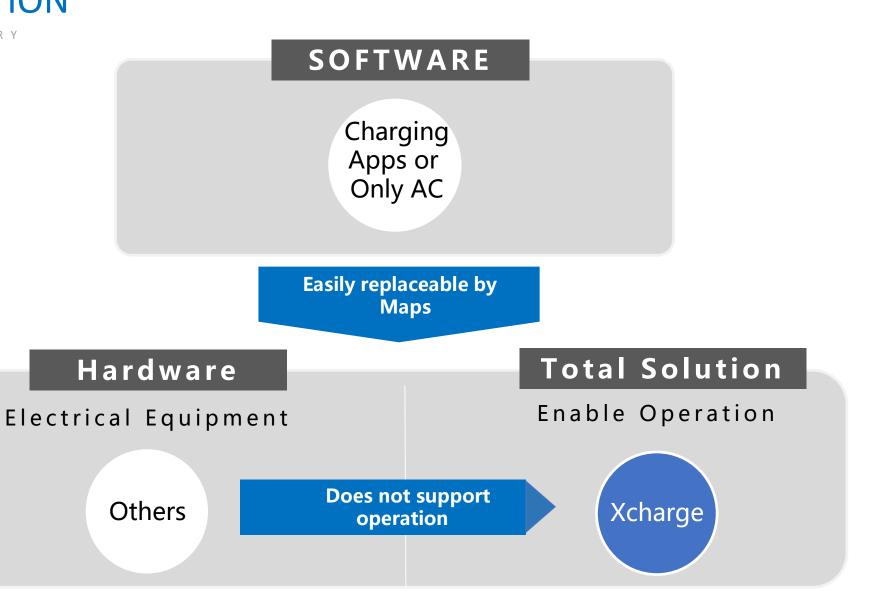
#### FIGURES FROM CHINA

- Nationwide, total number of chargers (public and private) has reached 450,000 by the end of 2017, reported by members of CCTIA.
- Among which 210,000 public chargers has been deployed and operated, achieving a 51% of annual increase. (150,000 public chargers has been recorded in operation by Dec. 2016, increased by over 2 times from 49,000 public chargers by the end of 2015.)
- Out of 240,000 private chargers (all being slow AC chargers), 83,000 located in Beijing, 78,000 in Shanghai and 39,000 in Guangdong, together accounting for over 80% of overall private chargers.
- By 2020, public and private chargers are aimed to reach over 4.3 million in total, matching each EV with one charger.



#### **PENETRATION**

#WAY OF ENTRY



#### THE CHARGING SOLUTION MARKET

#STRUCTURE



#### **CURRENT PRODUCTS NEED IMPROVEMENTS**

#STATUS QUO

Lack of Design

Lack of User Experience

Lack of Platform Compatibility

Lack of Operation Features

Lack of International View





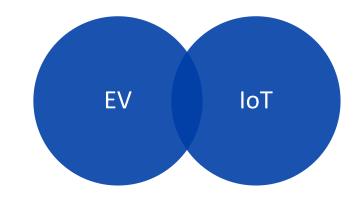




#### PRODUCT DEFINITION

#PRODUCT

### At A Time When Electric Vehicle Meets Internet of Things



### Charging Equipment Physically Connects Power to Transportation



#### C Series

#### IoT Gene

### Energy thinking









#### **C6** DUAL NOZZLE HPC CHARGER

# H A R D W A R E

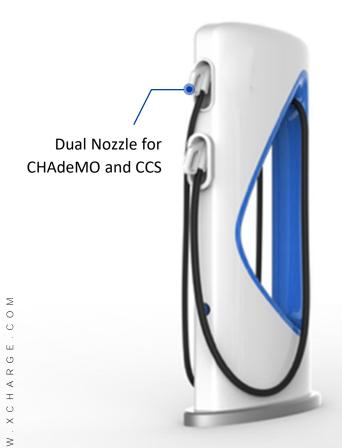




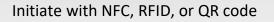
#### **C9** 3

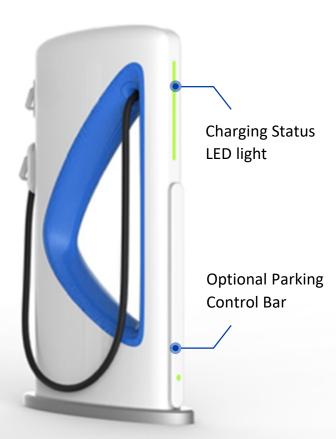
#### **C9** SATELLITES HPC CHARGER

# H A R D W A R E









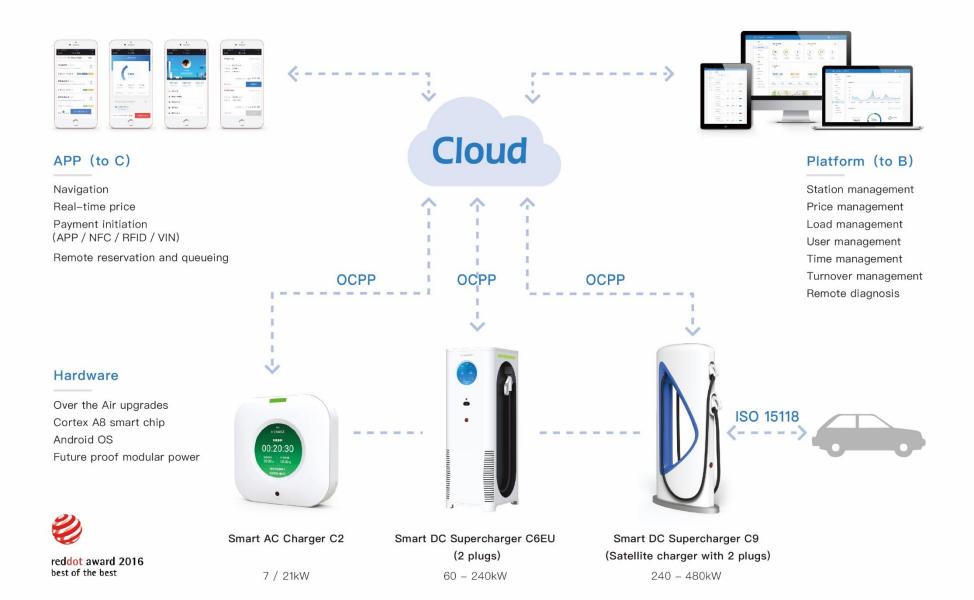
#### **MOBILE PLATFORM**

#SOFTWARE

ALL KINDS OF CUSTOMER MOBILE END CAN BE FULLY INTEGRATED WITH X-CHARGE HARDWARE PRODUCTS







Far more than products

#### VEHICLE BATTERY DATA AND IMPLICATIONS

#IOT ADVANTAGE

X-CHARGE System is able to takes record of battery charging curve of each charging process for big data Analysis.

Ex. Through variance analysis a data system Can detect the change in battery conditions.

#### Actual Vehicle Battery Data Collected



X-CHARGE'S A8 PROCESSOR AND ANDROID SYSTEM ENSURES INTEGRITY, ACCURACY, AND SPEED OF DATA TRANSFER

#### SOME OF THE HIGHEST USAGE RATE IN THE INDUSTRY

# H A R D W A R E

#### A Sample Station:

15DC(30 Nozzles) and 20AC

#### Usage Over:

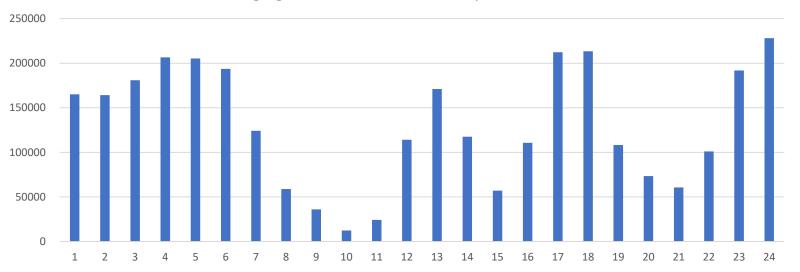
- -16,000kWh/day
- -560 charges/day

#### On Average:

- -28.5 kW/charge
- -35 Min/charge
- -11.2 Charge/Nozzle/day



#### Charging time distribution for the past 6 months



- Peak charging hours are:23pm 7am, 12pm-15pm,17pm-19pm.
- Full capacity operation during off-peak electricity times (after 16pm & during night time).
- Taxi drivers prefer charging early in the morning, resulting in the peak hours occurring during 4am-7am.





- Relatively steady growing trend generally speaking.
- Recent drop due to Chinese spring festival, especially when taxi and logistic car drivers all taking a break.

<sup>\*</sup> raw data attached in a separate excel

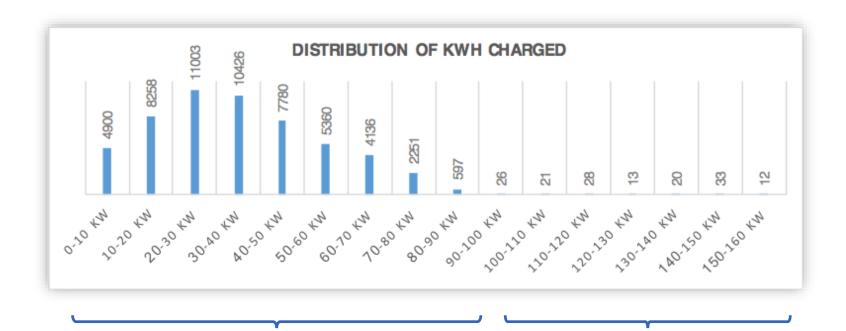
# W W W . X C H A R G E . C O

#### CHARGING DATA ANALYSIS AND IMPLICATION

#SOFTWARE

Distribution of kWh Charged

kWh Charged in Transaction Vs. Number of Transactions (Data taken from a city over 30 days)



We Expect this curve to move right as batteries get larger

By Mobile Charging Trucks

\* THIS DATA CAN HELP DETERMINE THE TYPE OF CHARGERS TO PROVIDE IN DIFFERENT LOCATIONS

# W W W . X C H A R G E . C O

#### THE CLIENTS WE SERVICE

#IOT ADVANTAGE



**OEM** 



Grid



Energy



Operator



Logistic



**EV Share** 

(三) 联合电动

4 Million

2016

50 Million

Αυδι

Potevio.

上汽集团 SAIC MOTOR







2017

国家电网 STATE GRID TOTAL

NIO **奈** 蔚来



CAINIAO菜鸟



2018E

# W W W . X C H A R G E . C O I

#### "CHARGE ANYWHERE" PROJECT

#IOT ADVANTAGE

#### 2<sup>ND</sup> HALF 2018

A scalable, standardized charging solution aimed at the mass medium& small operators.





















#### Our vision is to be a next generation energy solution company.

Total to B solution

**Battery storage** 

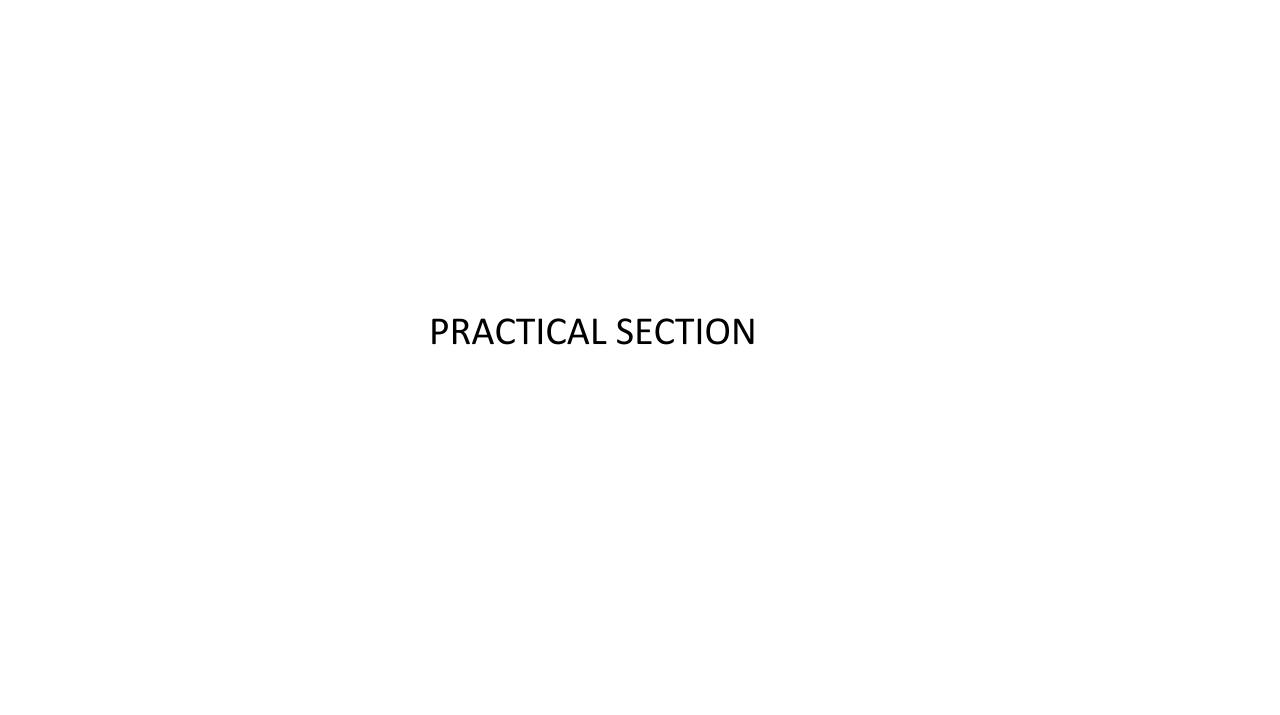
**Power Vendors** 

Power Trading on spot market and reserve market

Electricity retailer

PV Solar and wind combined project

Virtual Power Plant





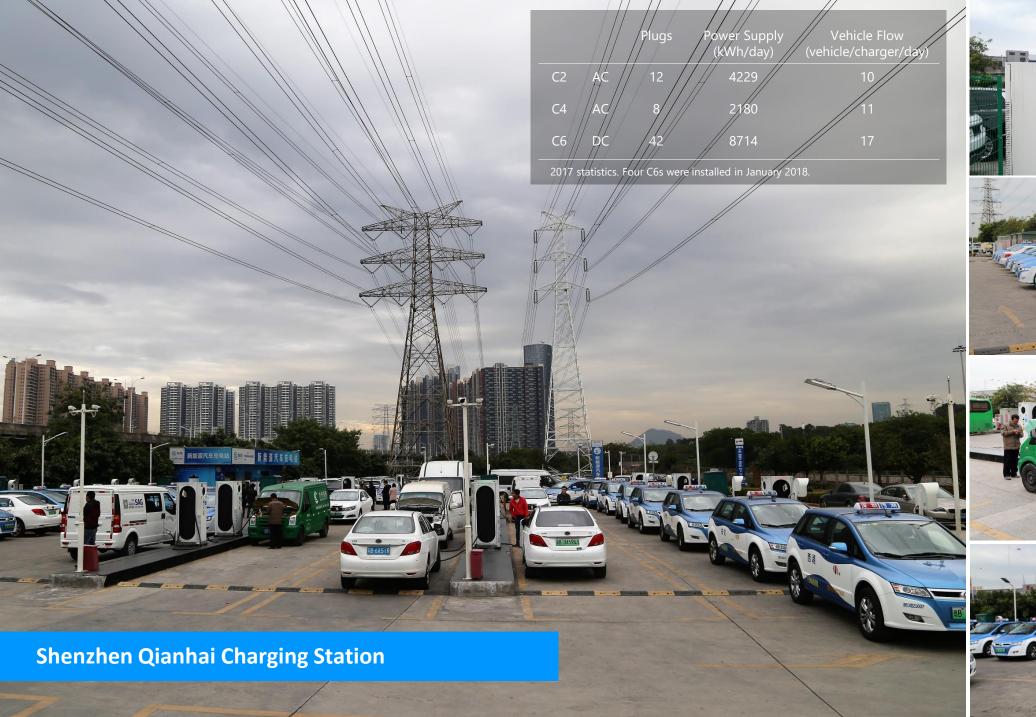
2017 statistics









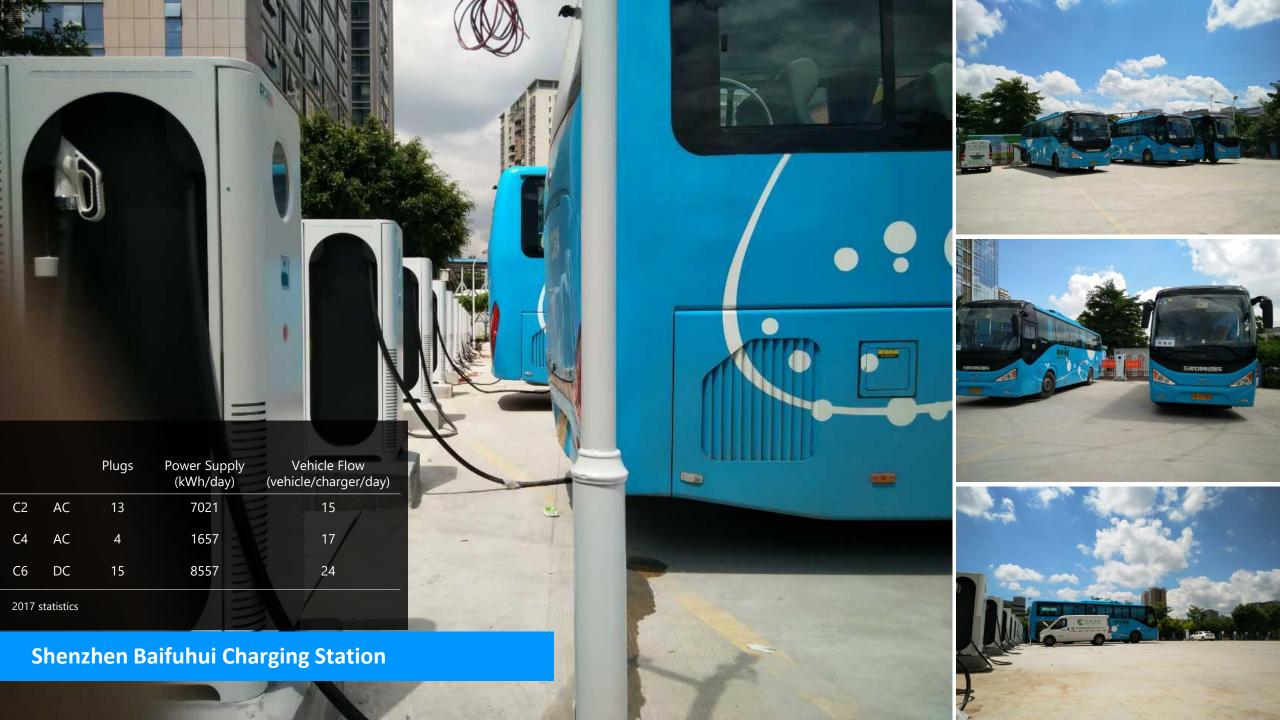




















## XCHARGE

CHARGE THE WORLD WITH X!

