



Beijing | Guangzhou | Hong Kong | Macau | Shanghai | Shenzhen

The Challenge of Developing EV Charger Network in a City

Date: 5th May 2016

電動車充電服務供應專家

Professional Electric Vehicle (EV) Charging Service Providers

解決電動車充電問題 使電動車普及化

Make Everywhere EV Ready Let EV Ready Everywhere













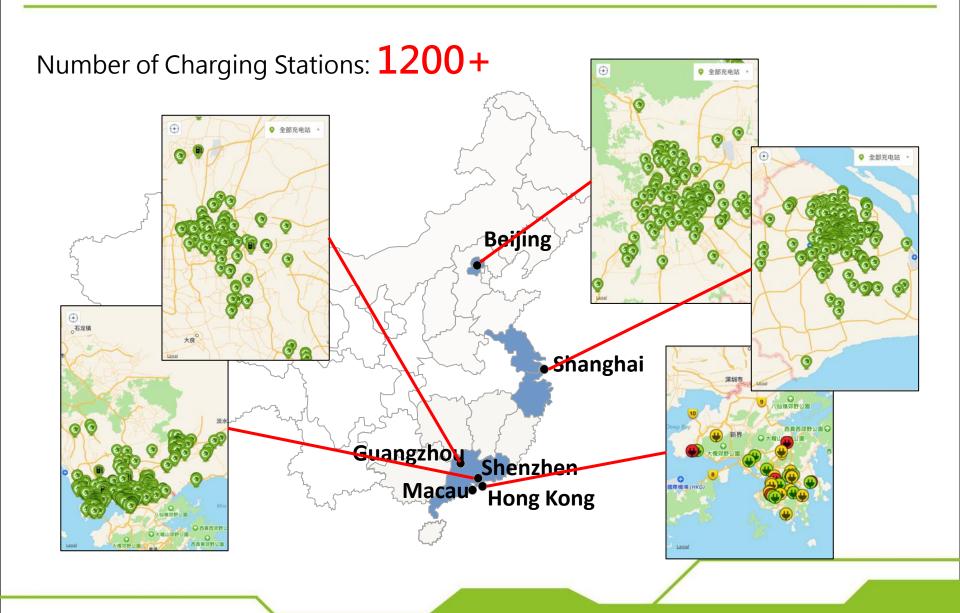
- ➤ How to obtain electricity?
- > Cable passing through public area
- > Electricity is public resource



Our Coverage







Our Corporate Clients



















































嘉華國際集團有限公司 K. WAH INTERNATIONAL HOLDINGS LIMITED































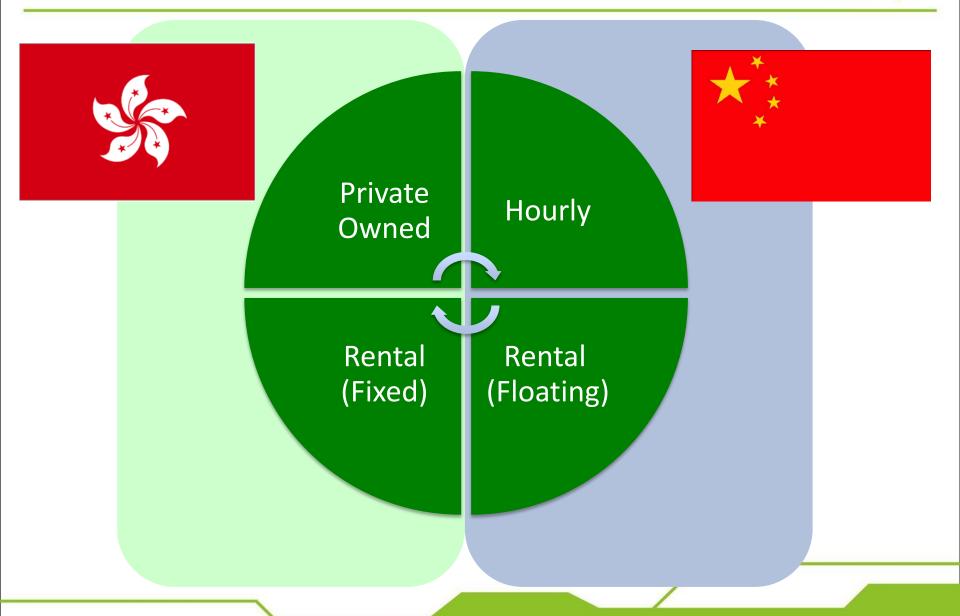




Type of Parking Lot







Our Home Charging Solution (HK)





Private EV Charging Service – Residential Apartment Scheme (RAS)

Operational Flow of RAS

EV Power builds the infrastructure in the whole residential car park

User buys an EV and calling EV Power for service EV Power Install the charger in the user's parking lot once receive request

User pays EV Power monthly fee according to the selected package

EV Power provides Charging service* and maintenance service





- Cable trunking system will be installed to connect the power source to vicinity of all the residential parking spaces
- All initial costs (infrastructure, installation, electricity power, maintenance) will be borne by EV Power
- Quick and simple process for EV users to enjoy charging services by paying one-off setup fee and regular monthly fees of selected package

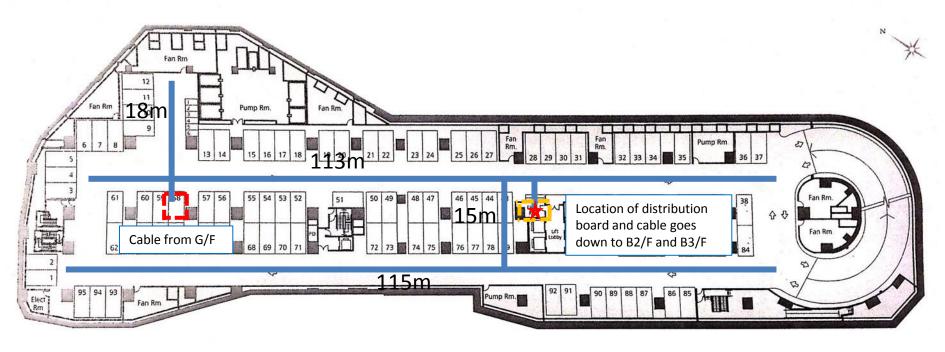
Our Home Charging Solution (HK)





Private EV Charging Service – Residential Apartment Scheme (RAS)

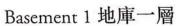
Infrastructure of RAS



Cable Trunks

 \bigstar

Distribution Boards & Network Devices





Our Home Charging Solution (HK)







www.hkev.com.hk



Private EV Charging Service - Residential Apartment Scheme

It is our honour to announce that the Private Electric Vehicle (EV) Charging Service - Residential Apartment Scheme (RAS) has been launched at your residential carpark. You can subscribe our monthly package to enjoy the easy and safe EV charging service.



| | RAS | Install a charger by your goodself (General corporate services) | | |
|---|------------------------|--|--|--|
| | (Provided by EV Power) | (General Corporate Services) | | |
| Successful application for charger installation | * | Depending on Management Office / Owners' committee approval | | |
| Installation of charger and related power cable wiring | Flat rate \$ 5,000 | Generally \$20,000 - \$80,000 | | |
| General installation time required (From application to installation completion) | Minimum 7 working days | 2 — 3 months | | |
| Third Party Liability Insurance | 1 | Privately purchased | | |
| Usage statistics, real-time monitoring of charging status and SMS notification | 1 | May not be provided | | |
| Charging troubleshooting, Maintenance & technical supporting (including charger and related electricity wiring) | 1 | May not be provided | | |

Private EV Charging Service - Residential Apartment Scheme

| Plan Code | S4 | S7 | E4 | E7 | C4 | C7 |
|----------------------------------|-----------|-----------|---------------|----------|----------|-----------|
| Monthly Fee (HKD) | \$ 1,480 | \$ 1,780 | \$ 1,180 | \$ 1,480 | \$ 980 | \$ 1,180 |
| Plan Type | Premium | | Standard | | | |
| Rated Current (Single Phase) | 20A | 32A | 20A | 32A | 20A | 32A |
| Charger Model | EVC-20N | EVC-32N | EVC-20N | EVC-32N | EVC-20N | EVC-32N |
| Monthly Charging Hours | Unlimited | | 100 hours | | 50 hours | |
| Extra Charging Service Fee (HKD) | | | \$20 per hour | | | |
| Min. Subscription Period | 24 months | | | | | |

The above price valid until 31/12/2016*

Application Notes

- 1 The applicant must be an E-Charge member to subscribe the Private EV Charging Service RAS ("Service Plan"). Existing E-Charge member can use the existing user account ID, otherwise please register as E-Charge member through E-Charge Account Start Pack or our website (www.hkev.com.hk).
- 2 The applicant is required to provide a valid proof of address issued within the previous 3 months (e.g. bank statement or water/electricity/gas bills) and other related documents for verification purpose only.
- 3 If the registered owner of parking spaces is not the applicant himself, please submit the endorsed authorization document of the owners of parking spaces for the installation of the EV charging facilities and the use of the related charging service, if the application of the application of the application of the application of the minuted for eject the application of terminate the service.

Service Plan Details

- 4 The start date of above Service Plans must be started on the 1st day of a month. Request for the other start date, temporary charging service can be provided for the remaining part until the end of the month as follows:
- The temporary charging service well be charged in proportion to the price as the selected Service Plan with unlimited charging hours.
 The start date of charging service well normally be about 14 days after receiving the completed application form together with all required documents, security deposit and payments.
- 6 \$4,500HKD security deposit is required for all Service Plans. The Company shall refund any security deposit to you (after deducting any outstanding subscription fee, any loss or damage, if any, suffered by the Company in connection with your use of any Equipment) after one month of the termination of the service.
- 7 Basic set-up fee will be charged \$5,000HKD for all Service Plans.
- 8 Advanced payment for the first TWO months of the subscribed Service Plan is required prior to the commencement of the service provisioning.
- 9 Each Service Plan can only apply to ONE EV, subject to the registered licence plate number of the application. The company is entitled to terminate the service immediately without prior notice if against this terms and conditions. The applicant shall indemnify the Company for all losses and labilities arising.

Sales Hotline: 3695 0396

(Mon-Fri, 9am-6pm, except Saturdays, Sundays and public holidays)

For any inquiries, please feel free to email us at contact@hkevpower.com





RAS/service plan/201603



Our Coverage (CHN)









Our Coverage (CHN)







Our Coverage (CHN)



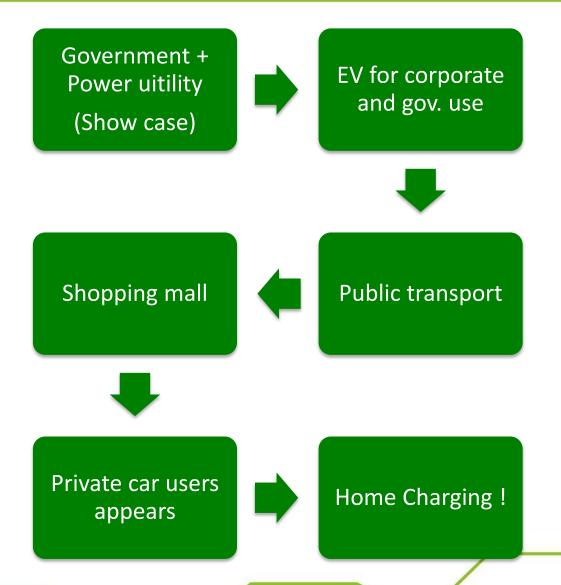




Milestone of EV development



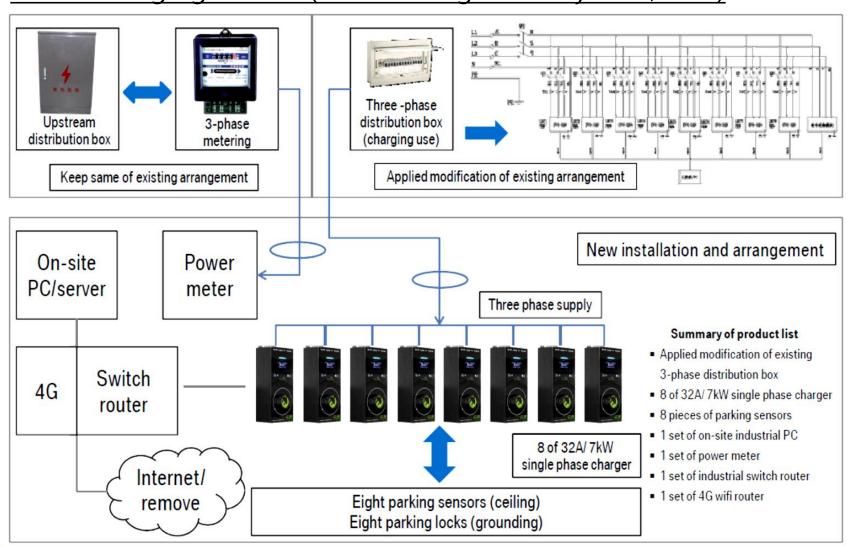








Smart Charging Station (Load Management System, LMS)







Smart Charging Station (Load Management System, LMS)

- Project configuration including: charging hardware; IT components; Software; parking sensors; smart phone apps.
- 8 chargers are for three phase power supply, one phase power output for charging, which can achieve three
 phase charging regulation and control.
- Load management system is a local central system, it can monitor and control charging load for each charger in one charging station, by priority of:

by current;

By Phase (New Feature – Automatic phase swap);

By charging energy;

By EV charging characteristic (Depends on PWM and max. support current);

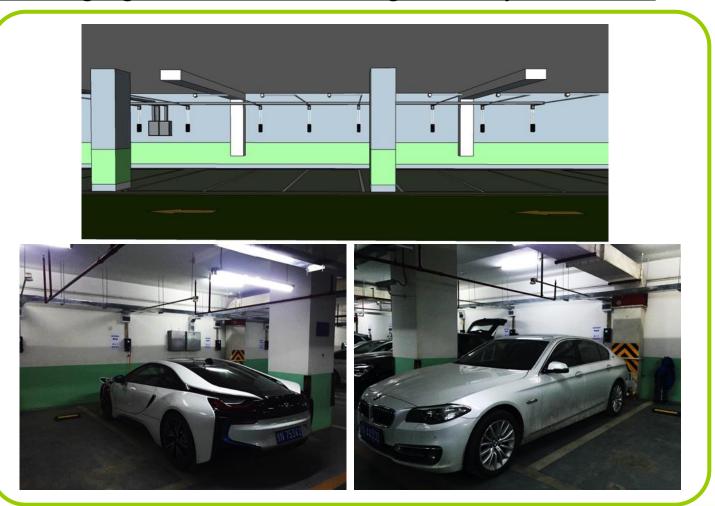
By queue (If out of current).

- Parking sensor is to physically verify parking lot is occupied or not, and parking locks are acted accordingly.
- Remote access of monitor and control charging station is applied.
- Smart phone application is to search nearby charger/ charging station, and reserve E- parking lot for charging.
- Warranty and liability statement, insurance statement, etc.





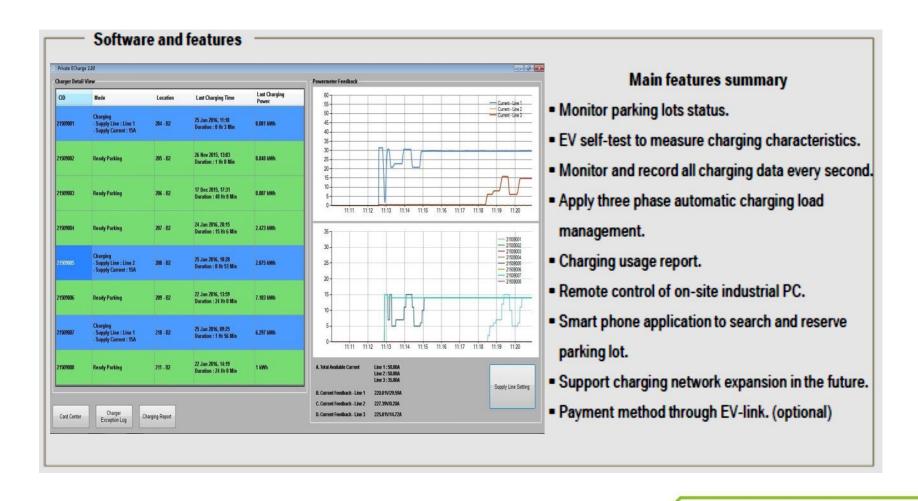
Smart Charging Station (Load Management System, LMS)







Smart Charging Station (Load Management System, LMS)



Our Public Charging Solution





EV Power's VOLVO and BMW Designated Public Charging Stations.









Contact Us





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澳門EV能源有限公司 Macau EV Power

5/F, EDF. FIT Center, 5 Andar, Macau





Our Services





Charging Stations





Operation Centre

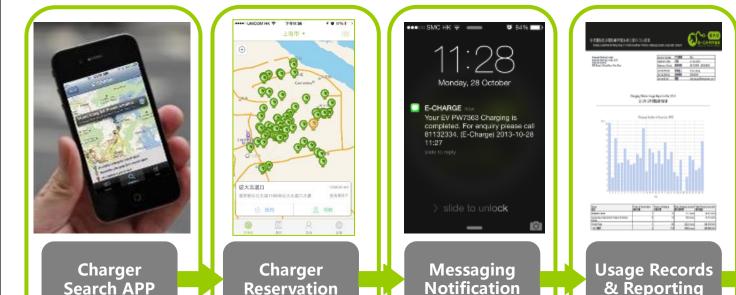


- Each EVC/EVG/EVQ charger is all-round and supports electric charging, networking, remote monitoring & control, account management, payment gateway, etc.
- Possessing <u>self product development ability</u>, EV Power is able to make and improve the charging facilities and back-office systems from time to time in order to meet the market needs and maintain the best use of the E-Charge Platforms.
- Open Platform to support other charging facilities. EV Power is able to provide instant technical support and customer services to our clients.

Our Services









- Every public charging point is equipped with an occupancy sensor. The EV users can reserve the charging point while the parking space and the charger are both unoccupied.
- Different payment methods are available for the users to pay the charging fees in their independent accounts. While the charging is completed normally or suspended by fault, instant messages will be sent to the users for real-time notification.
- Non-private information of the connected charging stations is integrated into E-Charge platform. Such information can be provided for any third party system to display the charger status and details.

Our Services







• E-Charge is an all-in-one online platform for both charger operators and users. It manages all chargers' daily operation and payment