Shanghai PowerShare Techology Ltd.

A Sustainable Energy Digital Services Provider Based on Advanced Energy&Battery AI

PowerShare--Leading Energy & Battery AI, Drive The Low Carbon Future

Company
- Est. in July 2015.
- 2 office, main office at Shanghai and R&D center at Suzhou.
- 2 co-labs at Shanghai and Nanjing.
- 50 employees

Business
- eMobility
- Battery
- New Energy
- Grid
- China and Oversea

Core Tech
- Battery AI and Energy AI
- Cloud incl: Virtual Power Plant, Energy Mgmt. System, Charging Platform. Etc.

Key Customers
- Volvo, Daimler, BMW, Renault, Nissan, FAW and BJEV
- CATL, State Grid, State Power, Shanghai Energy and bp

Core Data

60 Patents

18GWh Battery Data

15.3 bil Trading Data

227 K ESS & Chargers

Certifications & Awards

KPMG China Leading AutoTech TOP50 2019, 2020, 2021

advancing low carbon — bp "Advancing Low Carbon" Award

Best Battery Storage Technology Award

APAC 25 COMPANY 2020 — Cleantech APAC 25 Y2020

Co-lab

Co-R&D lab on Battery & BaaS Shanghai (Renault Nissan Mitsubishi)

Co-R&D lab on Battery & Energy Storage Nanjing (CQC)

Strategy Investors

bp

RENAULT NISSAN MITSUBISHI

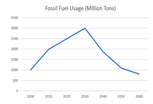
Future: Grid revolution driven by carbon neutrality lifts demand for VPP

Production | Transmission and distribution | Consumer

Fossil fuels

Stable and controllable

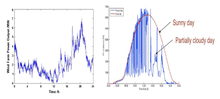
Gradually phased out



Zero carbon clean energy

Significant fluctuations

Increasingly adopted



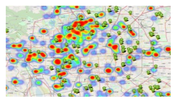
Challenge of intermittent shocks to grid

Rapid expansion of EVs

Unpredictability of charging patterns

Large power shocks to grid

A super network of ES nodes is the best way to modulate and balance power

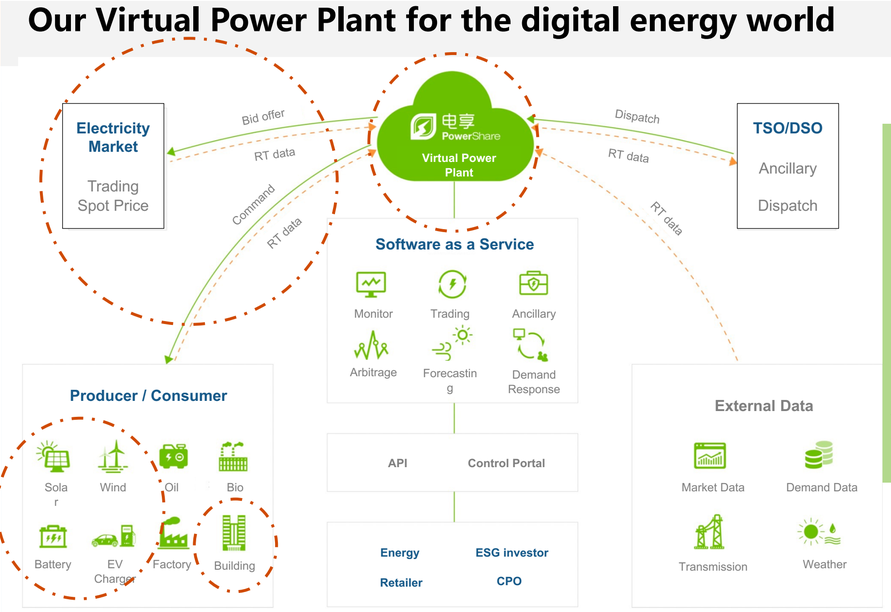


PowerShare View: ES is the key to building up renewable energy, with a expected **10TWh[1] demand** by 2050 creating a **$1.2b+ market**

PowerShare Offering: Calculating the return of battery investments is the biggest challenge in the industry. PowerShare is able to predict demand cycles, assess multiple , ES lifespan, etc., and optimise to extend investment lifecycles.

Notes: 1. Bloomberg New Energy Finance

Our Virtual Power Plant for the digital energy world



Our VPP Includes：

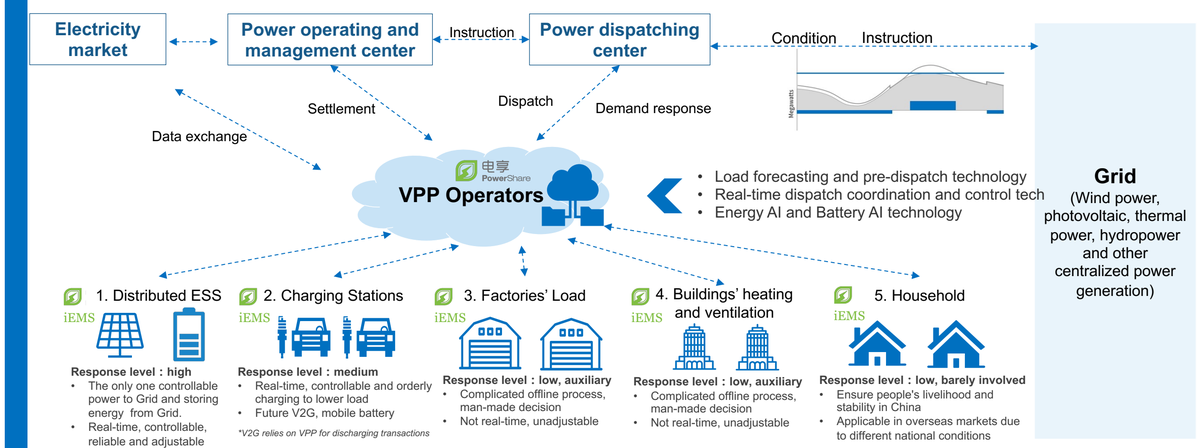
1.**Two business buildings**

2.The building should contain **PV,battery energy storage system and charging stations.**

3.We would like to connect to the **local electricity market** if applicable.

Solution： VPP

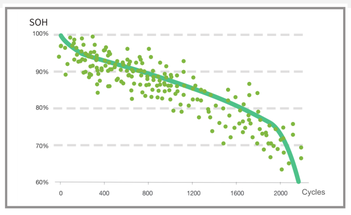
Virtual Power Plant ("VPP") is an IoT technology that integrates distributed power generation, demand response and energy storage resources into coordinated control and responds to grid dispatching instructions. VPP utilises advanced ICT and software system, to achieve the convergence and coordination of distributed power supply, energy storage system ("ESS"), controllable load, electric vehicles and other DER[1], as a special power plant to participate in the power market and power grid operation, external equivalent to a controllable power management system. The system can be used externally as either a "positive power plant" to supply power to the grid or a "negative power plant" to consume power from the grid.



*：1. DER = Distributed Energy Resource

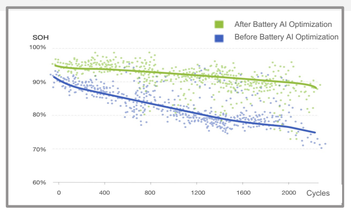
Technical Requirements: Battery AI focusing on Health, Safety and Lifecycle

AI mining value， Leading big data AI technology in domestic energy storage battery industry



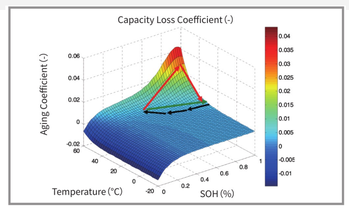
Battery Health Assessment & Prediction

- Based on the hybrid model of electrochemistry and AI, it is a unique patent algorithm generated by multiple iterations of massive data ；
- Accurate assessment and prediction of battery health ；
- Supporting various scenarios such as battery health management, safety warning, financial leasing, asset evaluation, charging & discharging cloud regulation, etc.



Battery Lifecycle Extension Algorithm

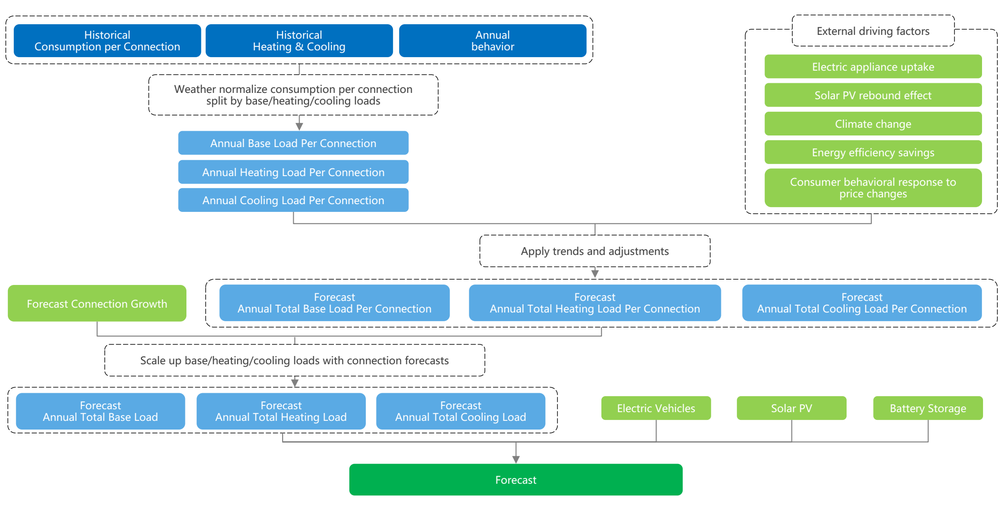
- The parameter optimization and charging/discharge model is implemented in combination with battery health, scenario strategy, etc ；
- Improve energy storage battery performance and prolong energy storage battery lifetime ；
- VPP cloud multi-site flexible scheduling, with the cluster site long-life balance ；



Battery Safety & Fault Warning

- Combined with electrochemistry and massive battery data to evaluate the key factors that cause failures such as lithium battery analysis and thermal loss ；
- Active abnormal monitoring of cell and module failure ；
- AI enabled battery fault warning, fault tracking, fault root cause analysis ；

Technical Requirements:PowerShare's Energy AI training the residential consumption forecasts

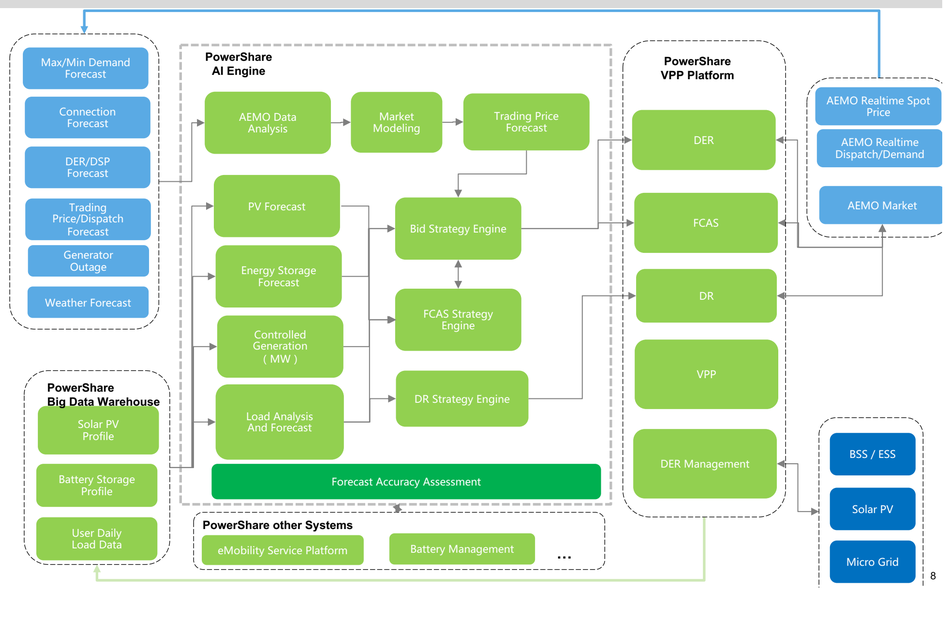


Technical Requirements: PowerShare's Forecasting System in NEM Market

Supply
- Network constraint
- Weather and Climate
- Fuel price
- Hedge Price
- Auxiliary load
- Generator outage
- DSP

Demand
- Residential base Load/Annual Energy consumption
- Non-working/Working day
- Heating/Cooling load
- Weather and Climate
- DER
- PV
- EV
- Battery

Performance Assessment:
- MAE
- MSE
- Probability Distribution (10%POE, 50%POE, 90%POE)



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