INFY POWER

— Innovation for Your Power —

Innovation Solution for Energy Storage and EV Charging

INFY POWER
— Innovation for Your Power —

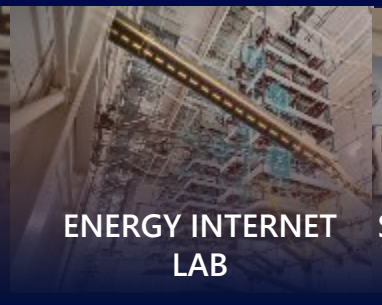
A Leading EV Charging & Energy Storage Power Solution Provider

A Respectable Technical Benchmark and Pioneer in Power Industry

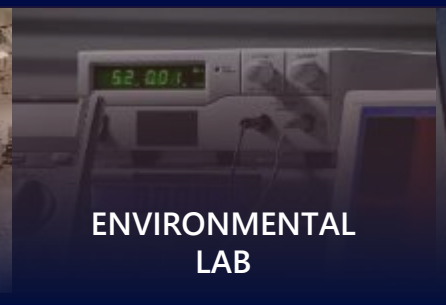
— INFY POWER’ S CORPORATE VISION

TALENT STRENGTH


CHARGING POWER LAB


ENERGY INTERNET LAB


SYSTEMS INTEGRATION LAB


ENVIRONMENTAL LAB

EMC LAB


TESTING DEPARTMENT LAB


ADVANCED TECHNOLOGY RESEARCH LAB

KEY PROJECTS

Leading A major project in Guangdong province: the development and industrialization of silicon carbide devices and modules for new energy vehicles

R&D and industrialization of silicon carbide devices and modules for new energy vehicles.

Independently undertake the key technology research project of Shenzhen science and technology commission:

Low-voltage AC/DC composite power router key technology research and development

1800+ EMPLOYEE

50%+ R&D ENGINEER

75%+ BACHELOR

10%+ R&D INVESTMENT RATIO/REVENUE

DOMESTIC CONSIST

INFY POWER
— Innovation for Your Power —

NANJING

Domestic Headquarter

CHENGDU
R&D Center

CHONGQING operation
center

LIYANG

Liyang Intelligent Manufacture factory

SHENZHEN

Global Headquarter

SHENZHEN
DONGGUAN
4 Power Module EMS

DONGGUAN
R&D Center

SHENZHEN

Shenzhen manufacture factory

Production capacity of charger and ESS

10 k +

Production capacity of power module

1000 k +

GLOBAL FOOTPRINT

INFY POWER
— Innovation for Your Power —

- Infypower SF US center
- Infypower SF Power Module EMS factory
- Infypower SF EV Charger EMS factory

- Munich
Infypower Electric GmbH
Global center

- Athens
Infypower EU EV Charger
EMS factory

- Shenzhen
Infypower Co., Ltd
Global R&D center

- Vietnam
Infypower Power Module
EMS factory

Global PRODUCT FOORPRINT

INFY POWER
— Innovation for Your Power —

5.0+ Millions
Reliable running power modules

100+
Countries and Regions

2000+
Global Clients and Partners

Charger Power Modules Market Share

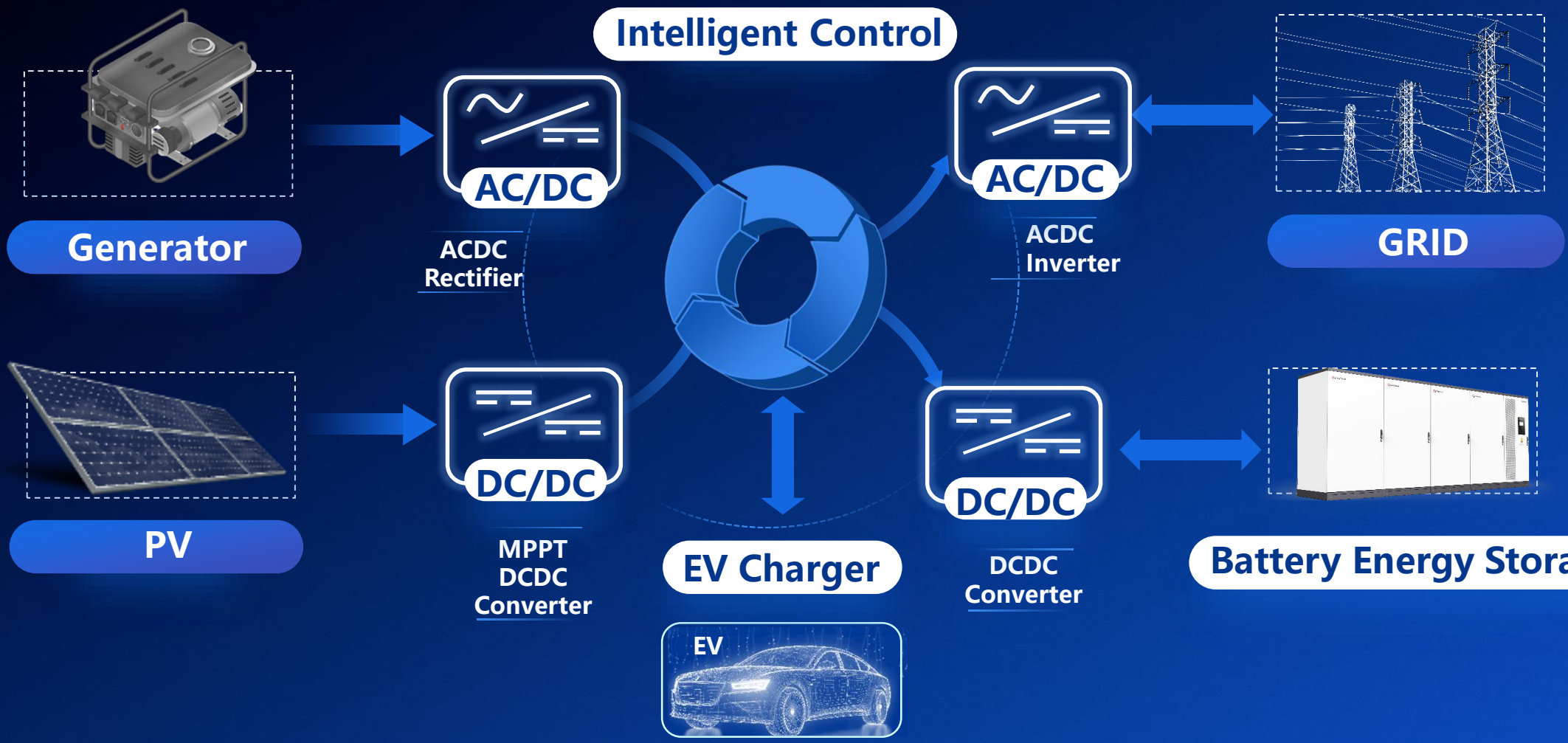
Market Share of Overseas
20%

Market Share of China
35%

Data cutoff date is December 31, 2024

INNOVATION Solution

INFY Infinity™ Support Unbounded Electric Energy Flow



OVERVIEW

Application and Values

V2G/V2H solution support the virtual power plant and power backup in industry, commercial and residential areas with the electric vehicle battery as the energy storage system.

Grid

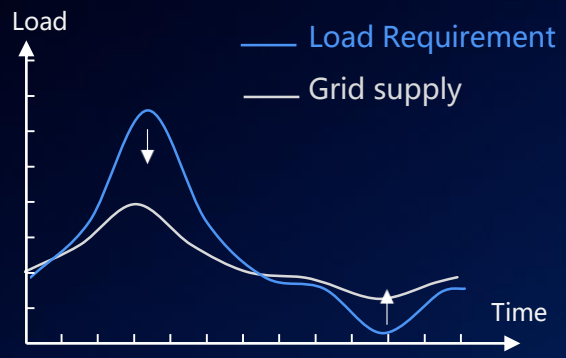
V2G industry virtual power plant

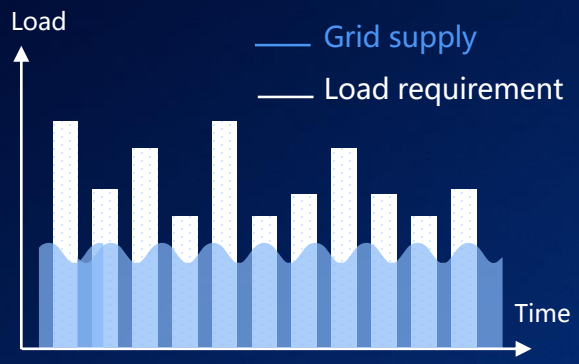
V2H residential power support

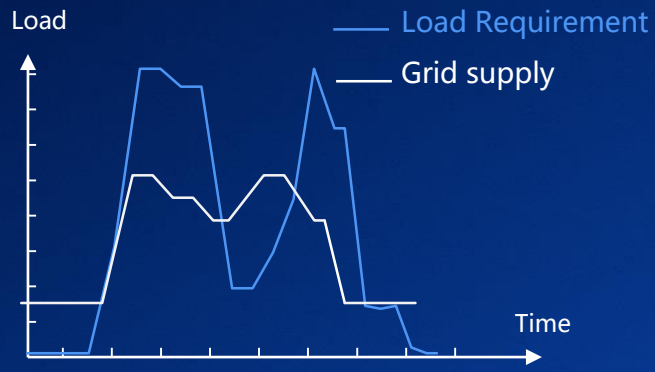
OVERVIEW

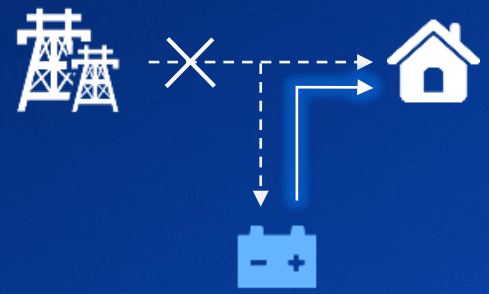
Application and Values

Peak load shifting, Dynamic power expansion and Power backup function are the main function to the power use side, virtual energy storage for the intelligent grid is the value from the power generation side.









Peak Load Shifting

Charge during off-peak hours and discharge during peak hours, achieving peak-valley arbitrage or reducing electricity costs

Dynamic Power Expansion

For intermittent high-power loads, the V2G system can support the power and stable the grid power requirement to achieve the dynamic expansion

Cost Save

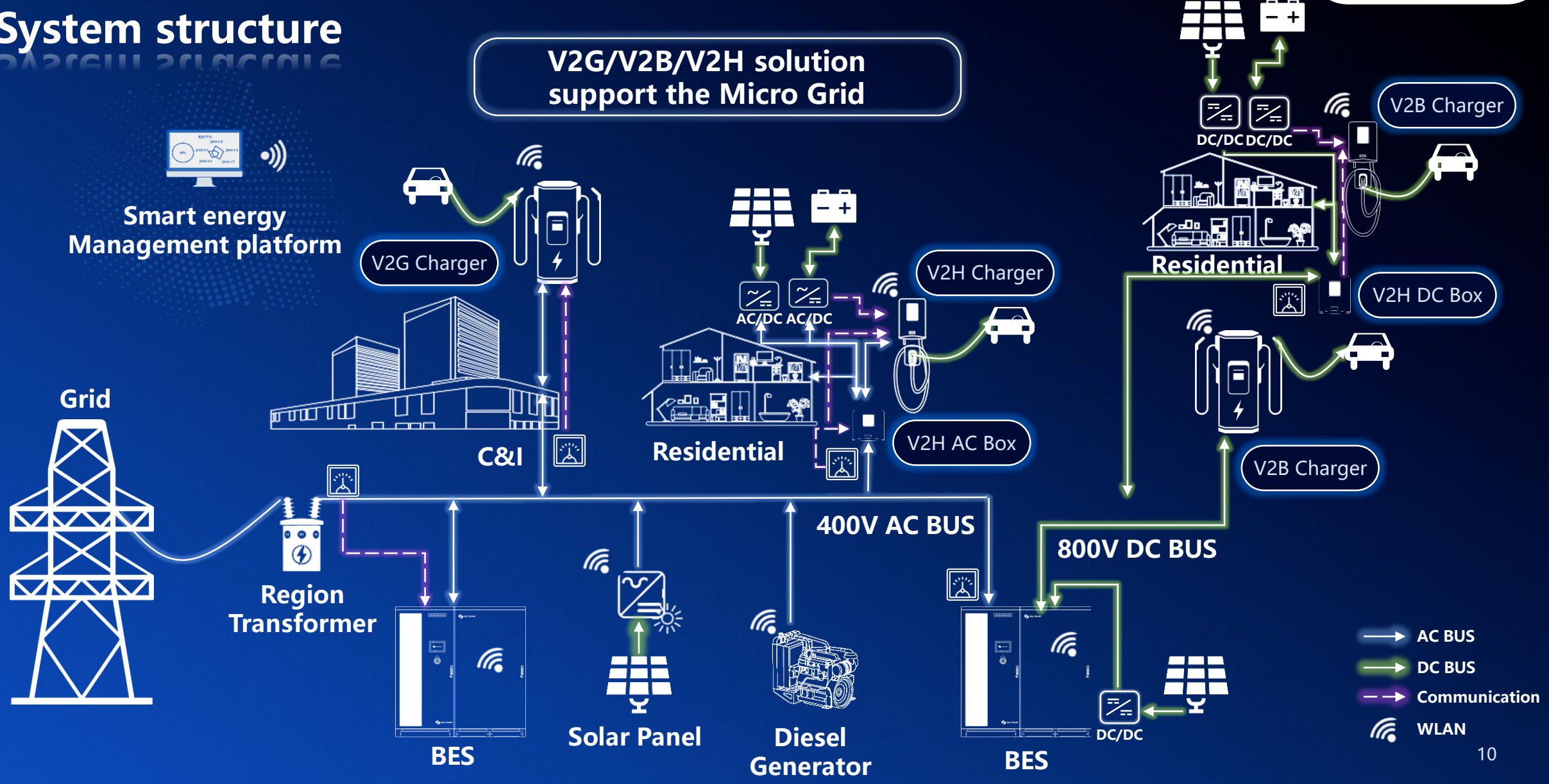
Participate in load side response and obtain government subsidies Reduce peak power and save basic electricity bills

Off Grid Power Backup

When the grid is interrupted abnormally, the V2G system provides uninterrupted power supply for important loads to avoid economic losses

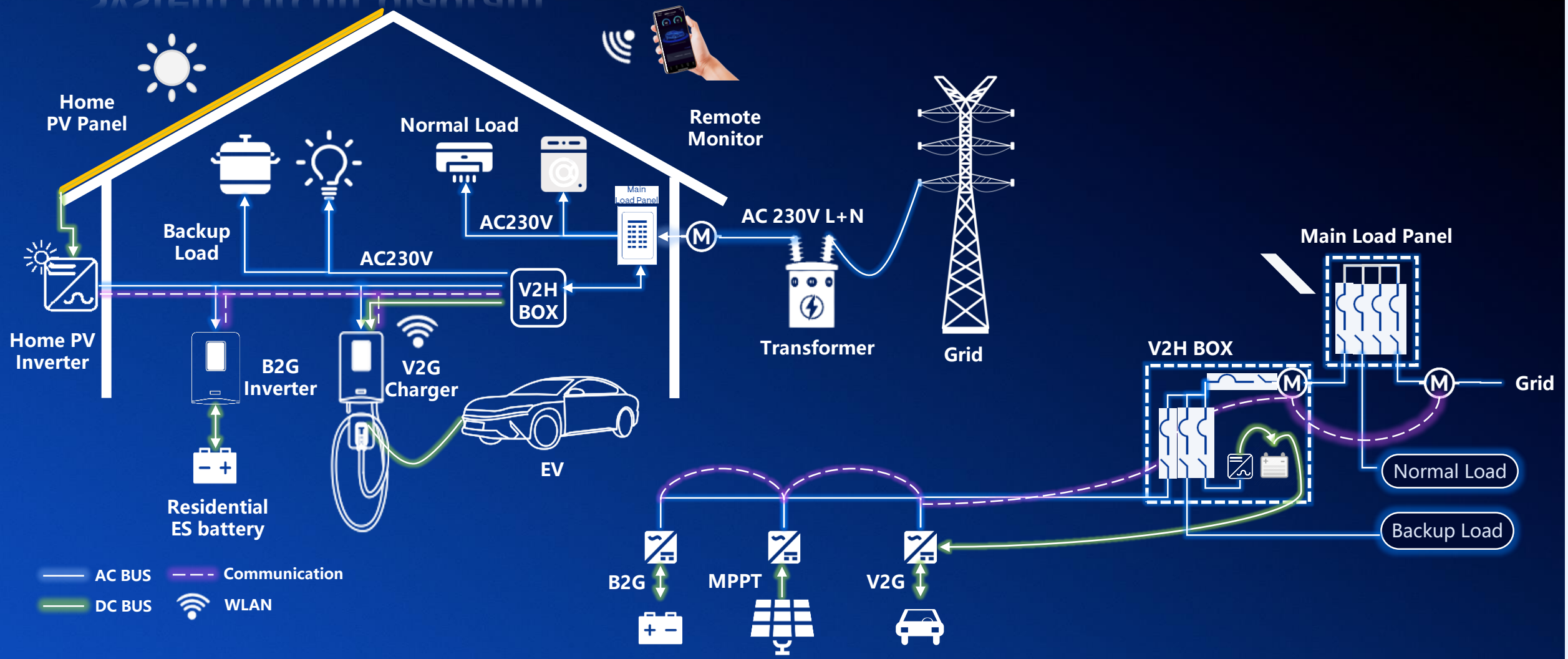
Micro AC Grid and DC Grid

System structure



V2G/V2H/V2B Solution support the Micro AC Grid

System circuit diagram



INFY V2X Building Block

V2X Bidirectional ACDC and DCDC Power Module

- Inner high frequency transformer isolation
- Modules are full compatible in interface and size
- Total solution with bidi ACDC/bidi DCDC/ ACDC/ DCDC
- Liquid cooled solution, 0 dB
- IP65, 55 dB, special design for DC Wall box
- VPF function and MCS performance will share the same platform
- Off grid/ V2H support

- Global grid code and connection certification
  VDE4105, UL1741SB, CSA C22.3, G99.....
  Wide range AC voltage for 480/400/380/208V AC grid
- DC side wide voltage range 200V~1000V DC
- Full SiC device using, High power efficiency, 97%+
- Hot plug both for electric and liquid interface
- Air flue protection by potting and coating isolation

22kW/1000V ACDC
BEG1K075G

30kW/1000V ACDC
BEG1K0100G

30kW/1000V DCDC
BEC1K0100G

11kW/1000V ACDC
BEG1K037G

35kW/1000V ACDC
LBG1K0120G

62.5kW/1250V DCDC
LBC125K0160G

INFY V2X Building Block

- IP65/55dB, full isolation air flow cannel
- DC Wall box/Pedestal solution
- Off grid / V2H support
- CCS1,CCS2 or CHAdeMo, GBT
- V2G and V2H AC Box
- Start up battery integrate
- High voltage simulator integrate
- OCPP1.6J/OCPP2.01

11kW 1000V V2G/V2H solution

- AC side 260 Vac ~530 Vac, 45 Hz~65 Hz, 3L+N+PE; 16.7A
- DC side 200 Vdc ~1000Vdc constant power

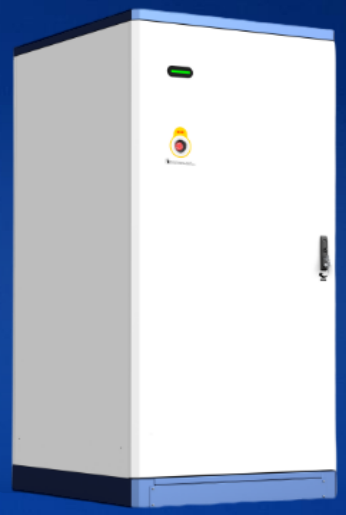
7kW 750V V2G/V2H solution

- AC side 100 Vac ~264 Vac, 45 Hz~65 Hz, L+N+PE; 20A
- DC side 300 Vdc ~750Vdc constant power

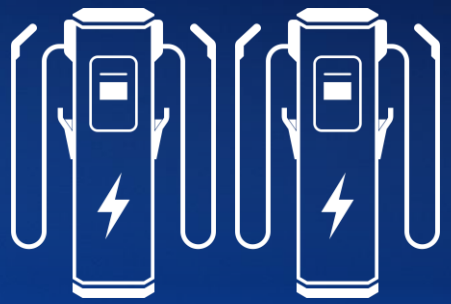
INFY V2G Building Block

- R&D source and risk reduce
- Project plan and product maturity improve
- Product and certification cost save

V2G Power Cube solution



Customizable Dispenser



440kW/600kW Fan cooled V2G Power Cube

- Split type，Fan cooled，All-in high power cube
- Easy interface to Customer V2G charging dispenser
- Max 12 charging channels with max 500A current each
- Smart power switch matrix
- Patent U type air channel for true 65 dB low noise and high protection
- Stand-alone Global certification

Customizable Dispenser

700kW Liquid cooled V2G Power Cube

- Split type，Liquid cooled，All-in high power cube
- Easy interface to Customer V2G charging dispenser
- Max 10 charging channels with max 500A current each
- Smart power switch matrix
- IP65 for power convert area, 60 dB low noise
- Stand-alone Global certification

Business Model

The business builds on a peak shaving

	Lithium Battery Storage System	V2G-enabled EV
Battery cost	Required	**≈0**
Place rental	Required	**Not required**
Mobility	Fixed	**Flexible**
Additional services	-	**Charging service available**

VS

In use cases with extended and predictable idle times, V2G participation incurs **near-zero marginal cost for EVs**. vehicles equipped with long-life batteries can achieve high economic returns through peak-valley.

Charging Scenarios

1

Public centralized charging station

4

Large-scale Solar-Storage-Charging Demo Station

7

Bus charging station

10

Airport parking lot

2

Highway service area charging station

5

Township demonstration station

8

Logistics charging hub

11

Shore power for ships charging station

3

Decentralized public charging station

6

Residential community charging station

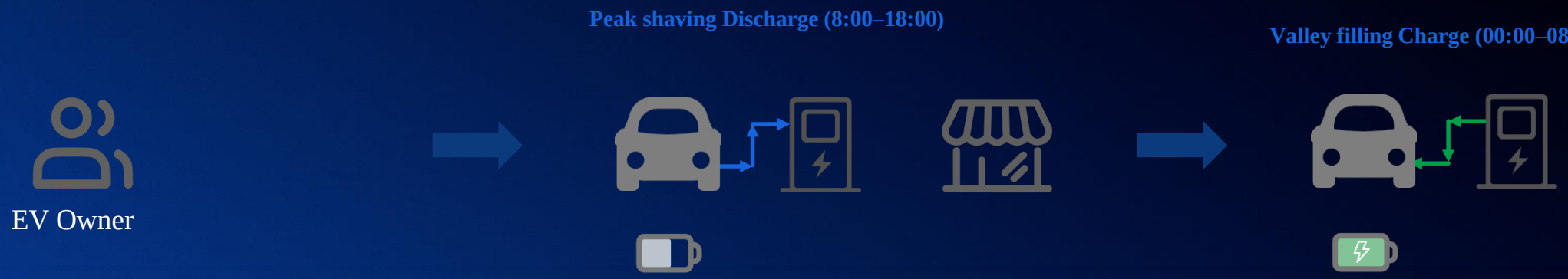
9

Heavy-duty truck Charging station

12

CBD charging station

Case 1(Residential Community):



Contracted Discharging

Discharge Volume	Discharge Days
28 kWh/day (4hrs) **35 kWh/day (5hrs)**	288 days per year

Power Tariff

Peak	Valley
￥1.20 /kWh	￥0.29 /kWh

Revenue Split from Discharging

Owner Discharge Price	Property Electricity Selling Price	Property Profit
￥0.9 /kWh (75%× ￥1.20)	￥1.1 /kWh	￥0.2 /kWh

Annual Income of EV Owners

Peak-Shaving Revenue

28× ￥1.20×75%×288 – 28× ￥0.29×288 = ￥4,919

35× ￥1.20×75%×288 – 35× ￥0.29×288 = ￥6,148

ROI（O&M Costs included）

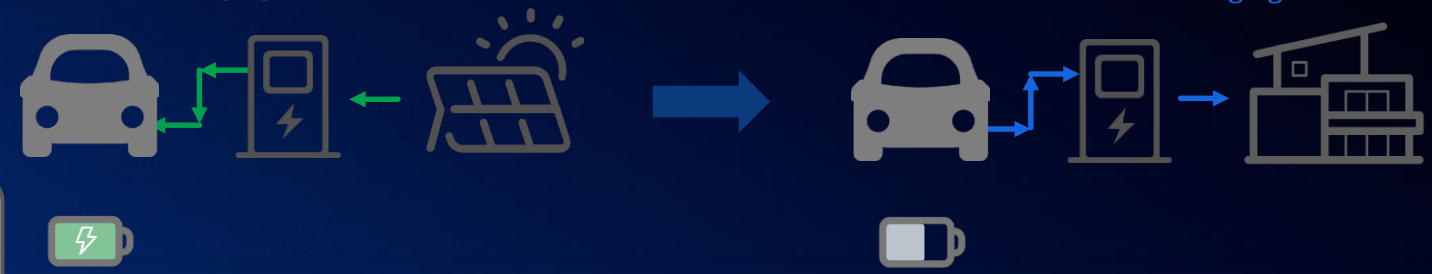
Case 2(Residential PV):

(Residential PV)

EV owner

Daytime (9:00–17:00):
Solar charging for EV

Nighttime (17:00–09:00):
Vehicle-to-home discharging



≤2,600kWh/Year	¥ 0.58 /kWh
2,601-6,000 kWh/Year	¥ 0.63 /kWh
> 6,000 kWh/Year	¥ 0.88 /kWh

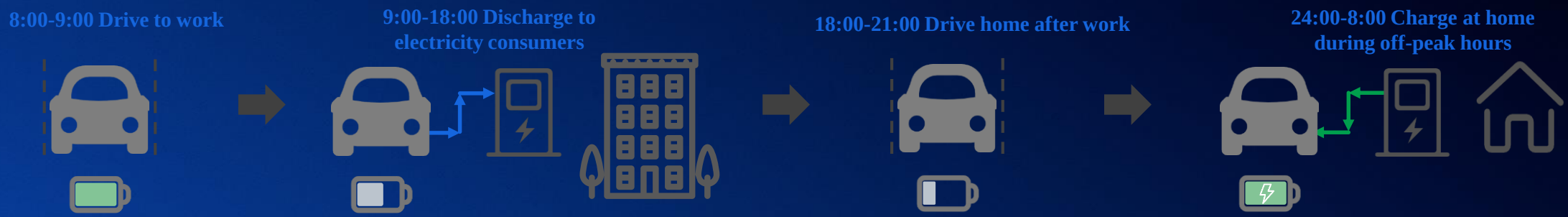
Place	Electricity		Tariff		Discharging Status		Annual Income of EV Owners
	Daily	Annual	power consumption	PV Generation Cost	Discharge Volume	Discharge Days	Nighttime Electricity Saving − Daytime Solar PV Cost
Villas	30 kWh	10,000 kWh	¥ 0.72 /kWh	¥ 0.26 /kWh	**25 kWh/Day**	350 days per year	25×350×(¥ 0.72–¥ 0.26) = **¥ 4,000**
Resorts	60 kWh	21,000 kWh	¥ 0.80 /kWh	¥ 0.26 /kWh	**30 kWh/Day**		30×350×(¥ 0.80–¥ 0.26) = **¥ 5,691**

ROI（O&M Costs included）

Case 3(Industrial Zone):

Employee EVs V2G

Participants: 1. Vehicle Users: Company Employees 2. Electricity Consumers: Building Property Management



Contracted Discharging		Power Tariff		Employee Vehicle Usage		
Discharge Volume	Working Days	Power Selling Price	Off-Peak Period Price	Average Energy Consumption	Annual Mileage	Total Energy Consumption
30 kWh/day	250	¥1.0 /kWh	¥0.7 /kWh	15 kWh/100km	12,000 km	1,800 kWh

Annual Total Discharge = 30 × 250 = 7,500 (kWh)

Annual Total Discharge Revenue= 7,500 × ¥1.0 = ¥7,500

Annual Total Charging Cost= (7,500 + 1,800) × ¥0.7 = ¥6,510

Annual Revenue per Vehicle= ¥7,500 - ¥6,510 = ¥990

After deducting charging costs, each EV can earn up to ¥990 per year (including charging costs for 12,000 km of employee use), while also earning additional income by participating in ancillary services.

Case 4(Emergency Situation):

V2G technology enables bidirectional power flow, supporting emergency power, load balancing, and energy optimization. By quickly switching to backup sources and microgrids, it reduces disruptions to daily life, business, and data loss, minimizing economic impact.

Natural Disasters and Extreme Weather

Sudden Grid Failure or Blackout

Grid equipment failure can cause blackout. The V2G system maintains power stability by quickly switching to backup sources.

Cyberattacks and Data Security Incidents

Hacker attacks causing altered dispatch commands or data leaks are mitigated by the V2G system isolating infected nodes and switching to secure backup data to restore service.

During major events, when grid load spikes or renewable generation fluctuates, the V2G system leverages vehicle batteries for peak shaving and valley filling to prevent grid collapse.

Remote charging station failures or network outages are managed by V2G via edge computing and backup links like satellite.

China’s largest-scale V2G hub —— 2.16MW

CSG Lotus Hill V2G hub achieves multi-dimensional integration of cutting-edge technologies and new business models, including ultra-fast charging, V2G, Power Harmony OS, smart photovoltaics, advanced energy storage, Power Cube prefabricated units, and virtual power plant aggregation platforms.

The station’s total V2G interaction capacity is 2.16 MW, equipped with two sets of 600 kW split V2G chargers (four 600 kW liquid-cooled ultra-fast bidirectional charging guns and sixteen 250 kW naturally cooled fast bidirectional charging guns), six 120 kW, and four 60 kW integrated V2G chargers. This project serves as a large-scale V2G demonstration model.

50 SETS *30KW DCWB*, *10* SETS *22KW V2G* DCWB
School Bus Station

NASHIVILLE, USA

2.8MW B2G Solution

100 + SETS

Global

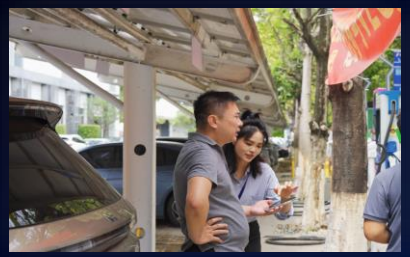
200 KWH / 540KW / 6 Charging Point

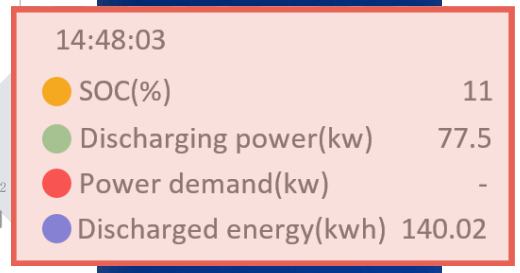
Battery Storage Charger | 44kW V2G + 600A HPC

SHENZHEN, CHINA

INFYPOWER Vehicle-to-Grid (V2G) Power Discharging Event





In April 2025, Shenzhen Virtual Power Plant Management Center, Shenzhen Urban Transport Planning Center, and **Infypower** held a V2G discharging event at eight Feichong Network ultra-fast charging stations in Shenzhen. EVs acted as power banks, discharging electricity to balance grid demand, while owners earned subsidies. One participant shared: "**I earned 7 yuan in five minutes**—simple and rewarding. I hope this becomes a regular event!"

Thanks to **Feichong Network mini-program**, the event offered a seamless service for scheduling, discharging, and earnings, with real-time station integration.

Looking ahead, Feichong Network **will roll out a "Discharge Points" system, linking discounts and market transactions** to boost user participation and value.

Thanks

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