

Huawei: Leading provider of ICT infrastructure and smart devices





207,000 employees



55% employees work in R&D



170+ countries and regions



No. 5 in global R&D investment



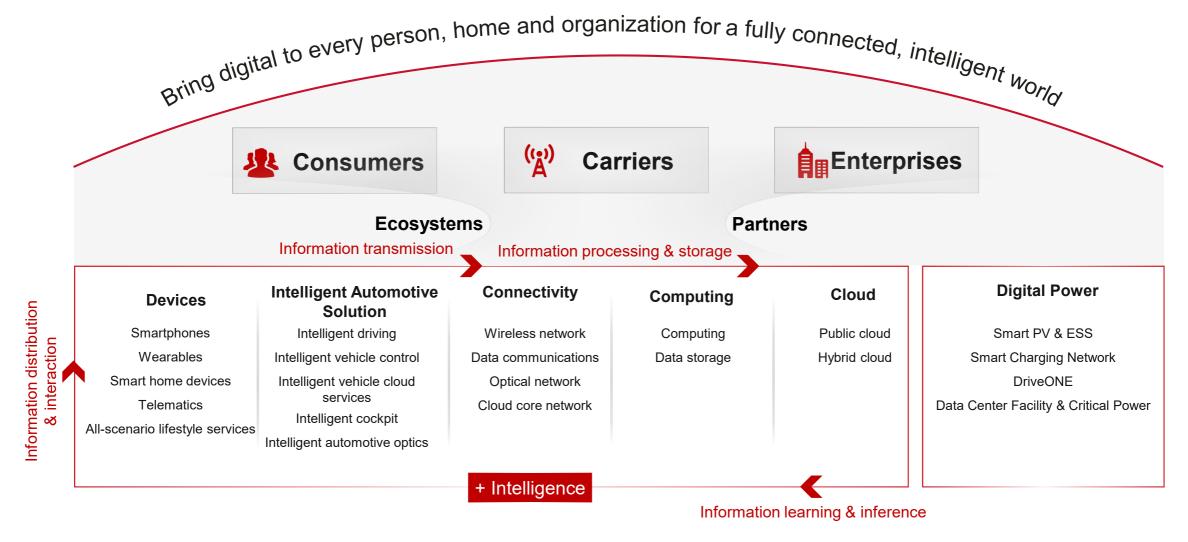
Bring digital to every person, home and organization for a fully connected, intelligent world



140,000+ active patents held globally



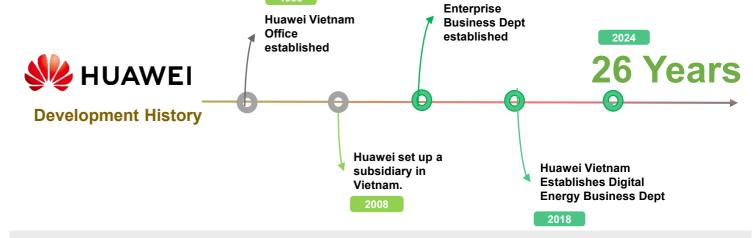
Focusing on ICT to provide products, solutions, and services to three customer groups alongside ecosystems and partners





Huawei Vietnam Development Milestones





2010

Huawei Vietnam

- Huawei offices are set up in Hanoi, Ho Chi Minh
- One service center in Da Nang.
- Huawei Vietnam has many excellent employees, and we do our best to be one of the best employers in Vietnam.
- Huawei has established close cooperation with all telecom operators in Vietnam. We provide end users with the best products, services, and solutions.

Our vision in Vietnam





Contributing to business success of customers and partners



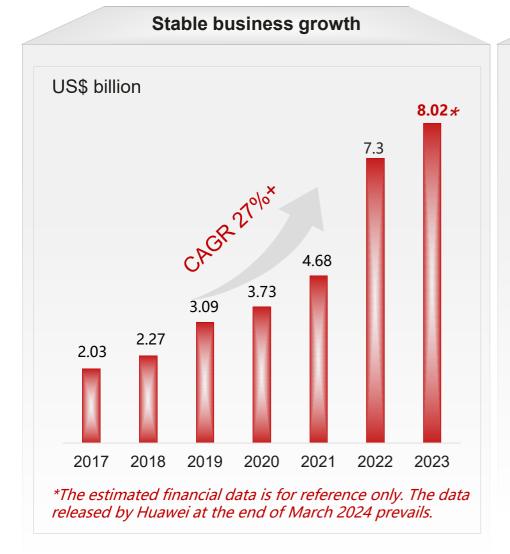
Enriching digital life and experiences



Cultivating more ICT talents



Steady growth of digital power businesses



Integrating digital and power electronics technologies to promote green transformation in the industry



Smart PV: FusionSolar Grid-Forming Solution increasing renewables penetration by 40%; inverters ranked No. 1 globally by market share for 8 consecutive years

(Source: Wood Mackenzie)



Smart Charging Network: Fully liquid-cooled ultra-fast charging solution deployed in **50+** cities and along **20+** expressways including the G318 Highway



DriveONE: DriveONE eMobility solution adopted in **50+** vehicle models by **10+** automobile manufacturers



Data Center Facility & Critical Power: Modular UPS and FusionModule2000 ranked **No. 1** globally for 7 and 5 consecutive years respectively

(Source: Frost & Sullivan)

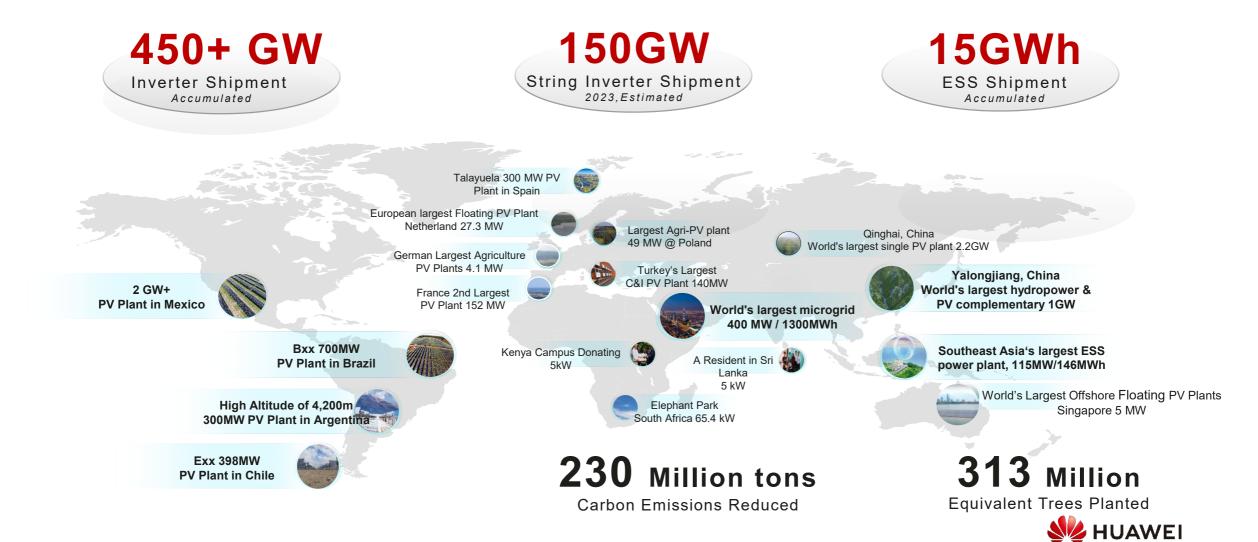


Site Power Facility: ranked **No. 1** globally by market share for 11 consecutive years

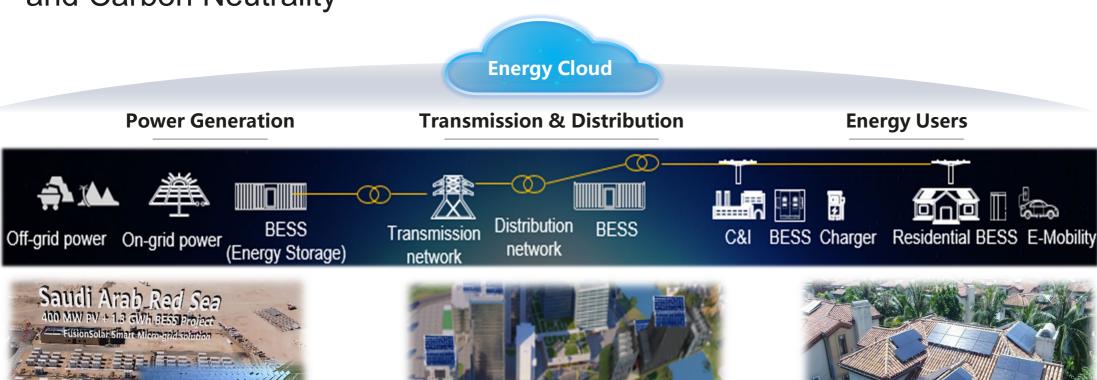
(Source: Frost & Sullivan)



FusionSolar Continuously **Building a Greener and Better Future** Together with Our Global Customers



"New Type Power System" for SEA, Accelerating Energy Independence and Carbon Neutrality





Smart PV + ESS Synchronous Generator Grid Forming



Inverter + ESS + EV Charger + Optimizer Self-consumption with 0-export



Inverter + ESS + EV Charger + Optimizer 24hrs Smart Green Living



Digital Power in Vietnam: Your Best Partner for a Better, Greener Future





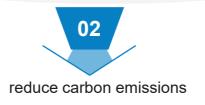
Dong Nai, Viet Nam 6 MWp @ 2020

7GW+

Inverter Accumulated Shipment



8.52 Billion kWh/Year



3.93 Million tons/Year



5.37 Million trees/Year

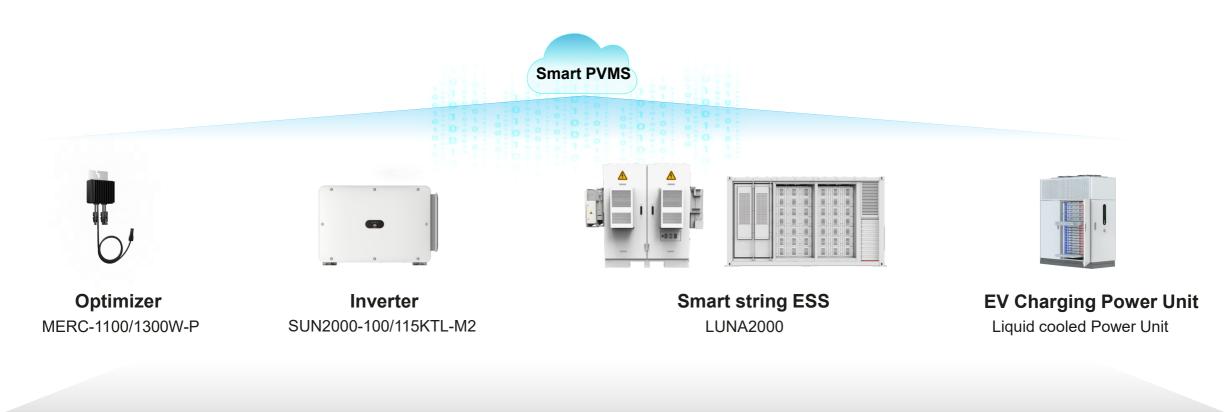


Ho Chi Minh City, Viet Nam 400 kW @ 2021

Note: Estimated data for each year after 2022

PROJECT TYPE	CAPACITY	PROJECT LOCATION	COD TIME
EASUP 831MWp	831 MWp	Dak Lak Province	2020
Gio Thanh 1&2 100MWp	100 MWp	Quang Tri Province	2020
Thien Tan 1.4 100MWp	100 MWp	Khanh Hoa Province	2020
Thien Tan 1.2&1.3 100MWp	100 MWp	Ninh Thuan Province	2020
Cat Hiep 50MWp	50 MWp	Bin Dinh Province	2020
Rooftop Project	3000 MW	Vietnam	COD 2019~2023

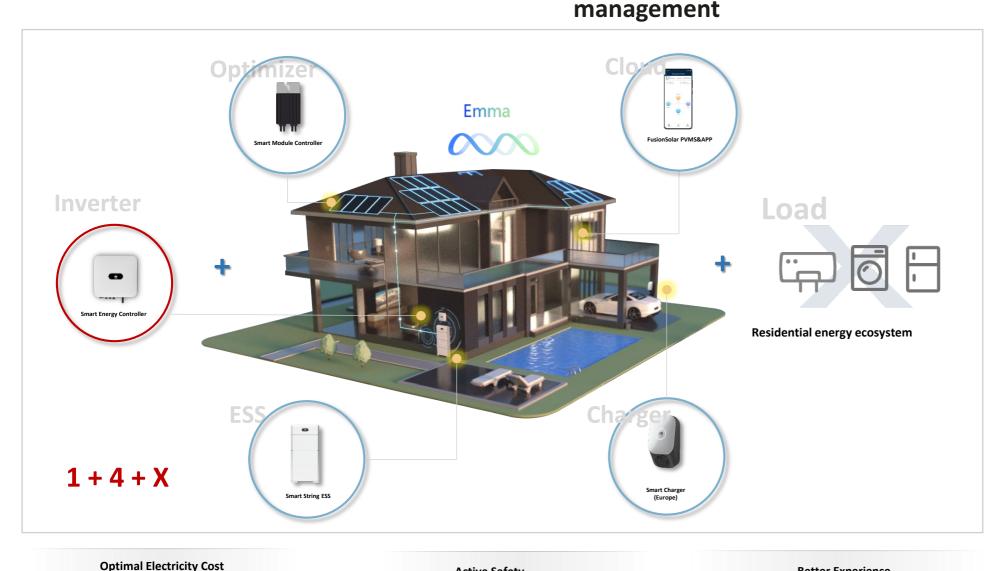
C&I Smart Energy Optimus Solution Accelerates the Green Power Transition



One-stop solution	Active Safety	High Reliability	More Revenue	Smart O&M
Better synergy & simple aftersales service	Multi safety design for device, asset, personal safety	Supports on-grid and off-grid scenario, provide stable power to C&I owners	Pack-level optimization to provide 5% more energy	Automatic SOC calibration of the ESS, free of site visits



The only Optimizer+Inverter+ESS+Charger+Load+Cloud solution provider, providing one-stop home energy



Active Safety

One-fits-all





Better Experience

Middle & Small C&I Scenario, LUNA2000-97/129/161/200KWH

Flexible Capacity Adapting to different C&I ESS scenarios





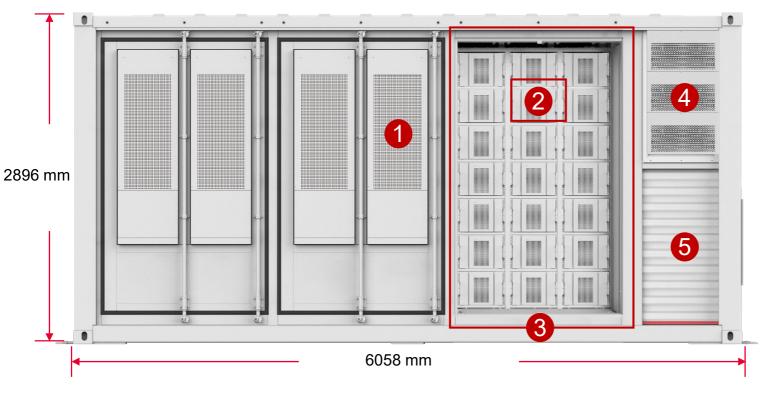
- 1-Door-mounted distributed air conditioners
- 2-Battery pack (integrate optimizer)
- 3-Battery rack
- 4-Smart Rack Controller
- 5-PCS
- 6-Abort button

ESS model	ESS capacity (1 cabinet)	Quantity of battery pack	Max. charge/discharge rate	Parallel use
LUNA2000-97KWH-1H1	96.8kWh	6	1C	 Different capacity models can be used together (Max. 20) Capacity range: 96.8~3870 KWh
LUNA2000-129KWH-2H1	129.0kWh	8	0.8C	
LUNA2000-161KWH-2H1	161.3kWh	10	0.64C	
LUNA2000-200KWH-2H1	193.5kWh	12	0.5C	

^{*}The battery pack of 97/129/161KWh is different from that of the 200kWh ESS, only the dimension is the same



Large C&I Scenario, LUNA2000-2.0MWH-1H1/2H1/4H1



Capacity 2032 kWh

LFP battery

Distributed air conditioners

6 for each LUNA2000-2.0MWH-1H1

Battery pack and battery optimizer

18 pcs 280 Ah cells in a battery pack Built-in battery pack optimizer

Battery rack

Each battery rack contains 21 battery packs. Each ESS contains 6 battery racks.

Smart Rack Controller

* 3 rack controllers in LUNA2000-2.0MWH-4H1/2H1

* 6 rack controllers in LUNA2000-2.0MWH-1H1

Weight < 30 t

20-ft ESS container

· Control unit cabin

Power distribution and fire suppression systems



Multi Active Safety Ultimate Safety for ESS, Asset & Personal







Service safety: professional installation & maintenance ensure safe operation



Qinghai Santara utility-scale PV project

Huawei FusionSolar Smart PV in the world's largest PV plant

Total capacity **2.2 GW**, including 1.6 GW of Huawei inverters.

Grid forming – stable operation in all-scenario grid scenarios (SCR down to 1.2)

Safe & reliable – availability ≥ 99.999%

Uses the SUN2000-175KTL-H0 inverters, connected to grid on September 30, 2020

* Hainan Prefecture

The world's first UHV power line that delivers 100% renewable energy over long distances

The world's largest renewable energy project with the shortest construction time



Red Sea project, Saudi Arabia, Middle East

World's first GW-level grid forming PV+ESS plant construction

Total plant capacity: 400 MW PV + 1.3 GWh ESS

Provide 100% renewable energy for 1 million people

800 MWh has been running stably since July 2023 and the project is expected to put into full operation by the end of 2023.







By December, 2023, Huawei Digital Power has helped customers

generate green power

save power

997.9 billion kWh 46.1 billion kWh

reduce carbon emissions

495 million tons 680 million trees

equivalent to planting

Thank you.

把数字世界带入每个人、每个家庭、每个组织,构建万物互联的智能世界。

Bring digital to every person, home and organization for a fully connected, intelligent world.

Copyright©2023 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

