

UTILITY-SCALE ESS SOLUTION

DEYE WINTER WS SERIES



Ultimate Safety

- 3+3 Fire Protection System
- 3+3 Electrical Safety Safeguards
- AC Leakage & DC Insulation detection
- High-Voltage Interlock



Versatile Applications

- Peak Shaving & Energy Arbitrage
- Virtual Power Plant (VPP) Ready
- Off-Grid & Microgrid Capable
- PV and BESS DC Coupling
- Hybrid Solar-BESS-Diesel Systems



High Energy Density

- 4300kWh in 20' BESS container
- 2250kW PCS, 3600kW PV in 10' container



Seamless Scalability

- Modular Architecture
- Flexible 2/4/6h Energy Storage Solutions
- Compact Design, High Energy Density



Smart Cloud Management

- AI-Powered Load Optimization
- 24/7 Remote Monitoring & O&M
- Real-Time Battery Health & Safety Alerts
- Cloud-Connected Ecosystem



Cluster Management

- One cluster management, high availability, more friendly to the cell

IP55

Protection Rating

3600kW

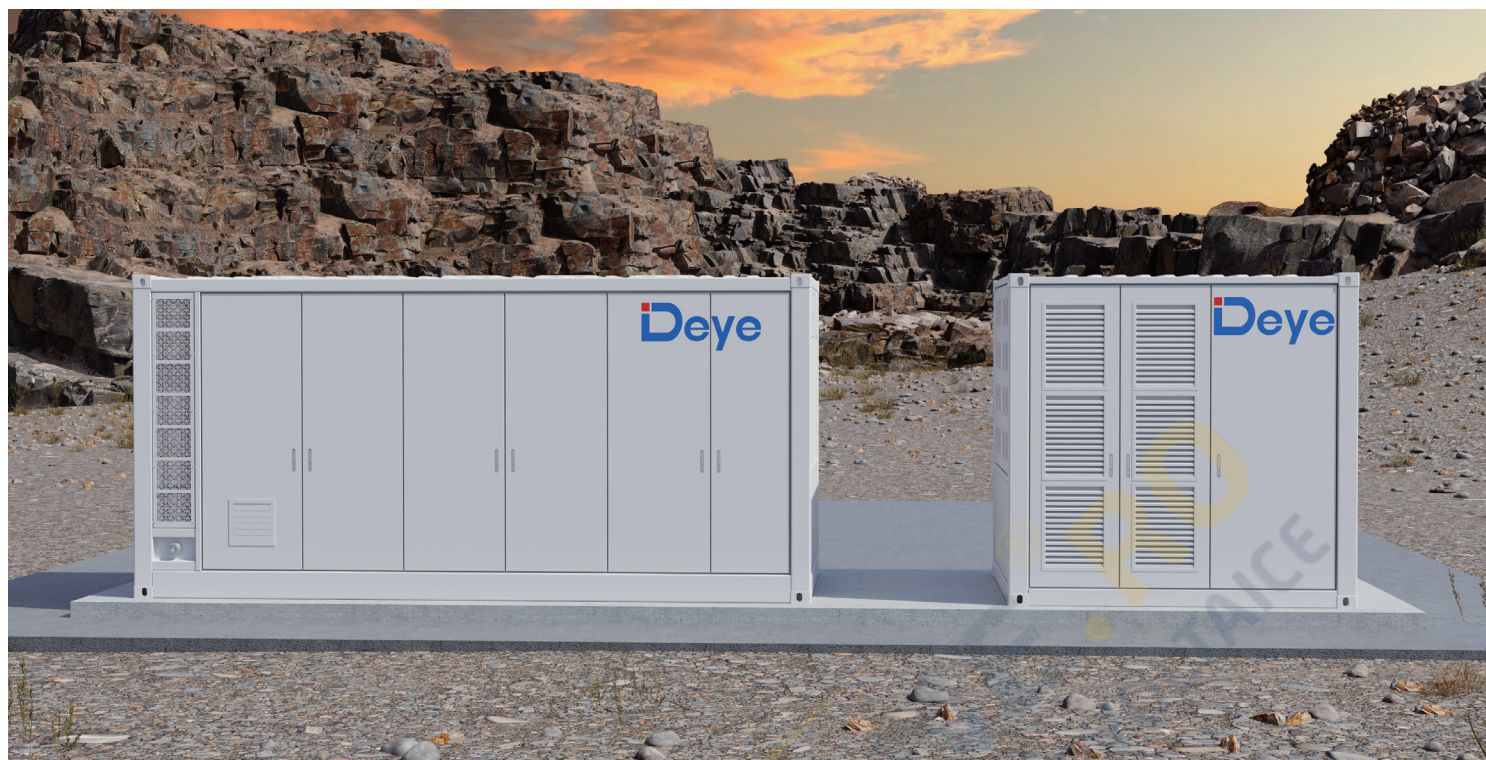
PV DC Coupling

10 Years

Warranty

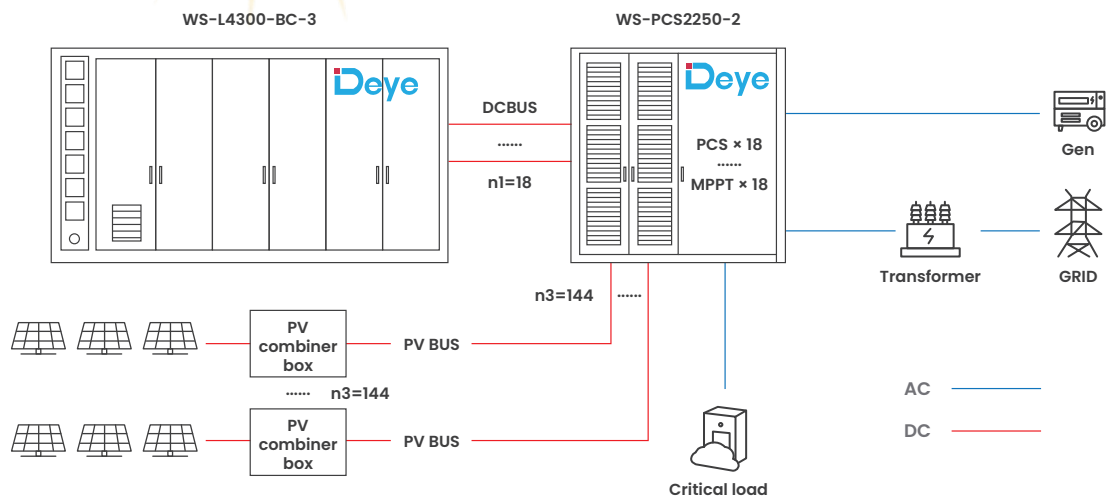
5 Levels

Fire Protection

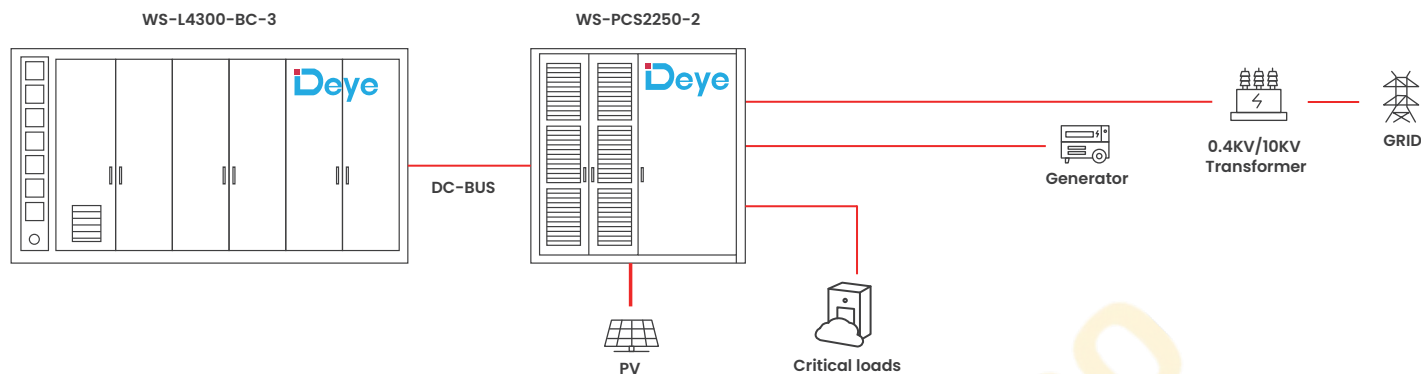


Model	WS-L4300-BC-3
DC Battery	
Battery Type	LiFePO ₄
Nominal Capacity (Cell)	314Ah
Nominal Energy	4340kWh
PACK Configuration	1P48S
RACK Configuration	18 × 1P240S
Nominal DC Voltage	768Vdc
DC Voltage Range	648Vdc ~ 876Vdc
Charge and discharge rate	≤0.5P
Max. Charging / Discharging Current	3150A (18 × 175A)
No. of DC Output	18
System	
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-30°C ~ +60°C
Humidity	0 ~ 95% (No condensation)
Type of cooling	Liquid cooling
Fire Suppression	Aerosol、Water
Ingress Protection	IP55
Anticorrosion grade	≥C4
Altitude	≤2000m
Communication	CAN、RS485、TCP、DIDO
Weight	40000kg
Dimensions (W × D × H)	6058 × 2438 × 2896mm

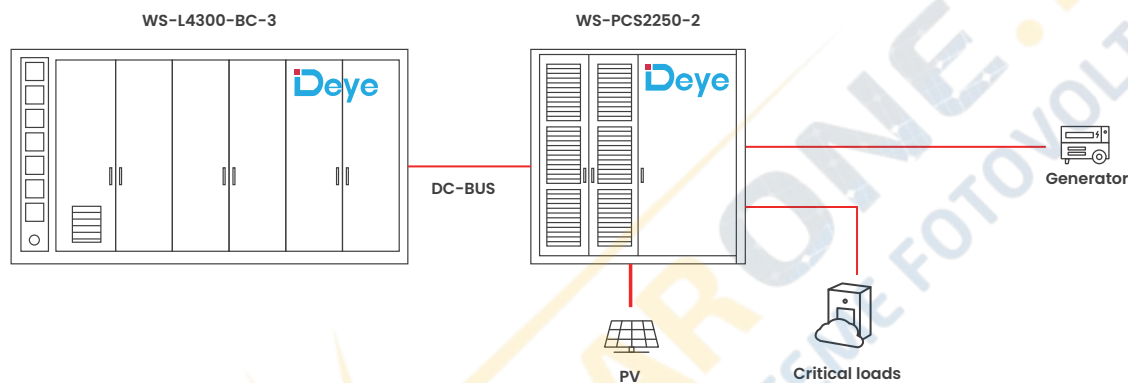
Model		WS-PCS2250-2
PCS Data		
AC Rated Power		2250kW (18 × 125kW)
AC Rated Voltage / Frequency		400Vac / 50Hz (3L+N+PE)
AC Rated Current		3248A (18 × 180.4A)
Max Power		2475kW (18 × 137.5kW)
Power Factor		-0.8 ~ +0.8
Battery Input Voltage Range		630Vdc ~ 1000Vdc
Max. Charging / Discharging Current		3420A (18 × 190A)
MPPT Data		
Max. PV Input Power		3600kW (18 × 200kW)
Max. PV Input Voltage		1000Vdc
Start-up Voltage		200Vdc
Max Operating PV Input Current		18 × (40+40+40+40+40+40+40+40) A
No. of MPP Trackers		144 (18 × 8)
System Data		
Grid Side Data		
AC Rated Voltage / Frequency		400Vac / 50Hz (3L+N+PE)
AC Max Current		5400A
Gen Side Data		
AC Rated Voltage / Frequency		400Vac / 50Hz (3L+N+PE)
AC Max Current		3600A
Load Side Data		
AC Rated Voltage / Frequency		400Vac / 50Hz (3L+N+PE)
AC Max Current		2700A
General Data		
Operating Temperature		-25°C ~ +55°C
Humidity		0 ~ 95% (No condensation)
Ingress Protection		IP54
Anticorrosion grade		≥C4
Altitude		≤2000m
Weight		6000kg
Dimensions (W × D × H)		2991 × 2438 × 2896mm

UTILITY-SCALE ESS Solution


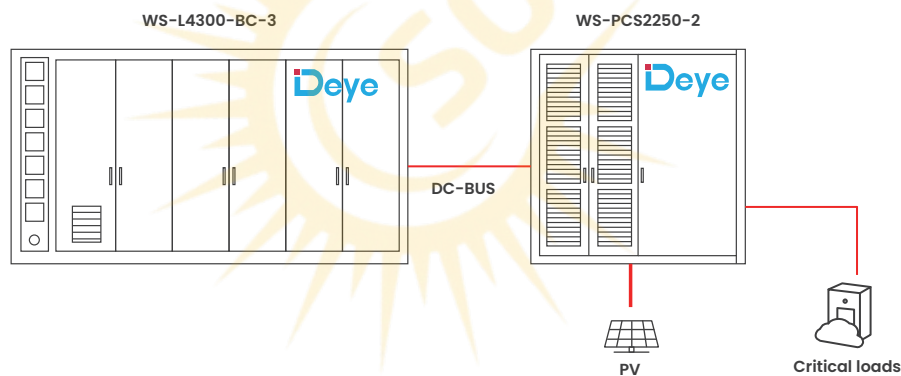
PV + Energy Storage + Diesel Generator Microgrid Solution



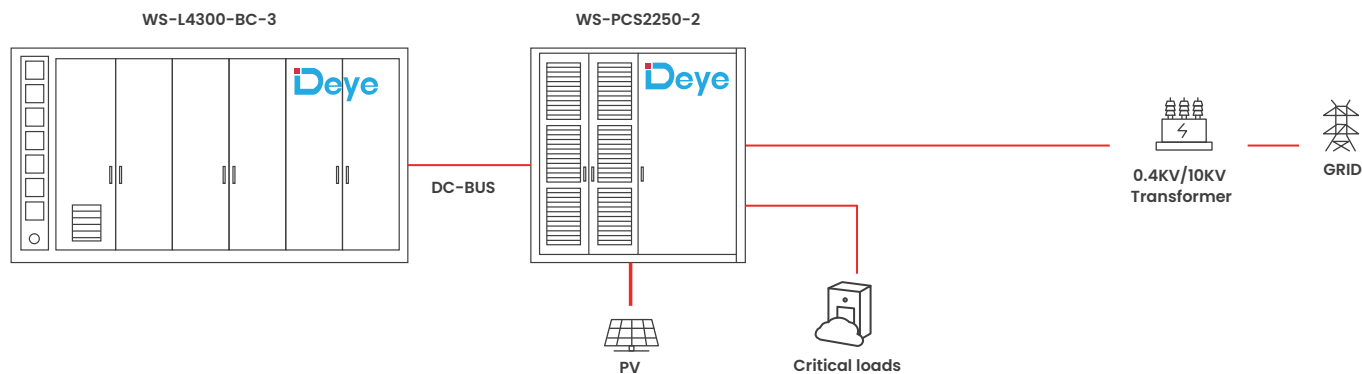
PV+ Energy Storage + Diesel Generator off-grid Solution



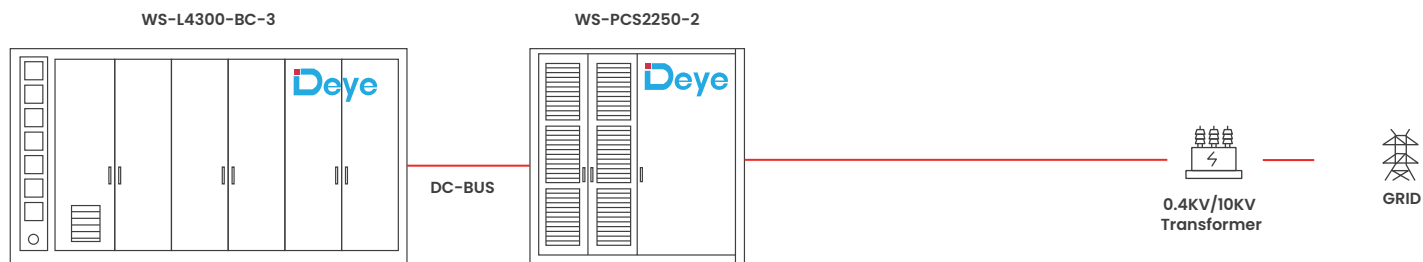
PV + Energy Storage Off-grid Solution



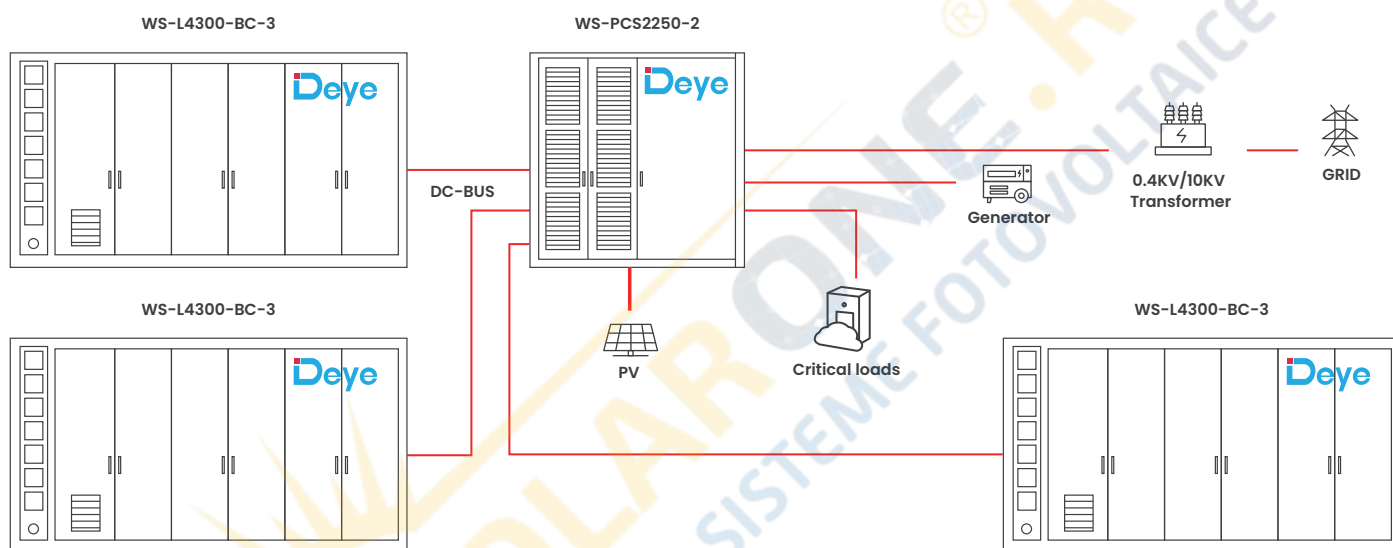
On-grid Energy Storage Solution with Backup Power



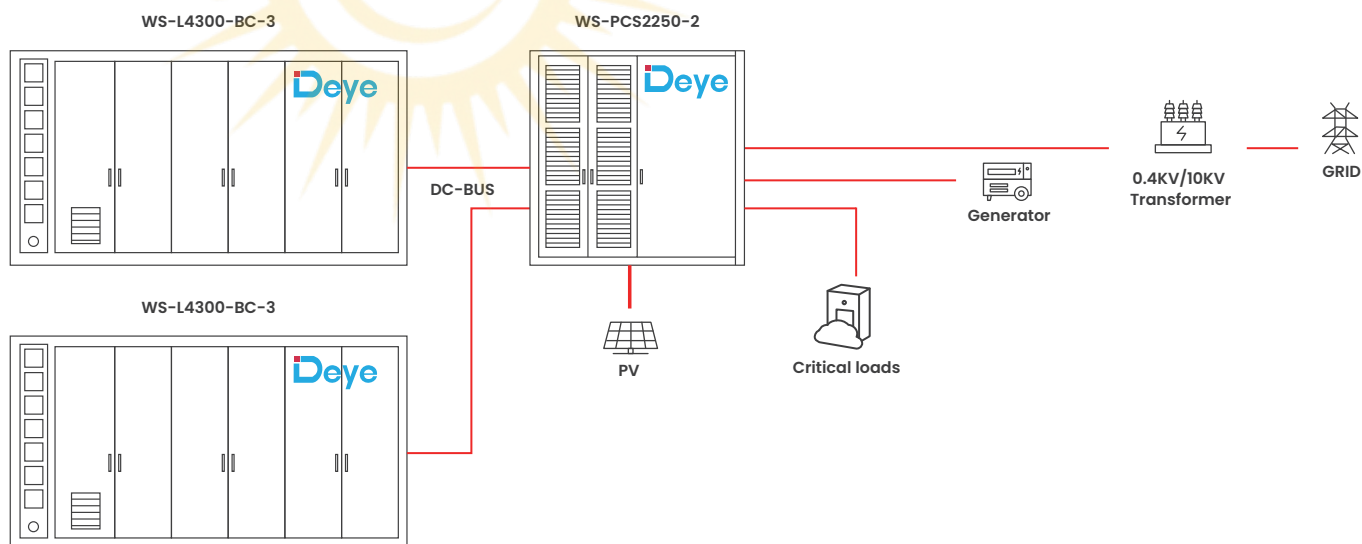
Typical Application Scenarios



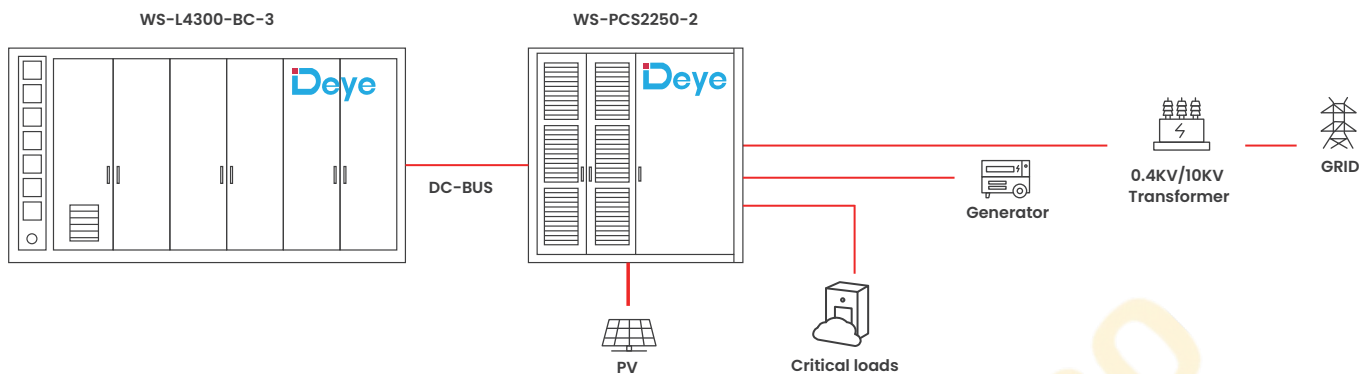
6-hour Energy Storage Solution



4-hour Energy Storage Solution



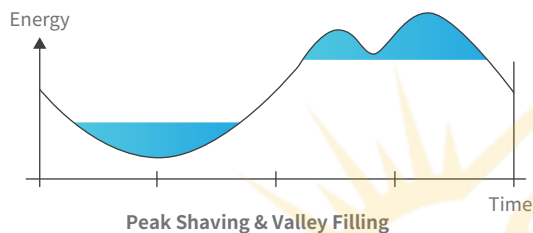
2-hour Energy Storage Solution



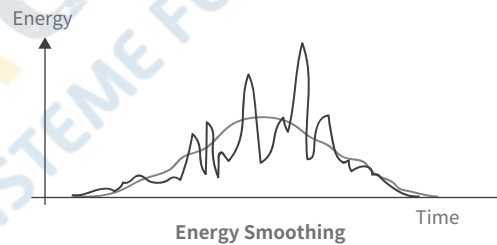
Application Scenarios

Ideal for medium to large C&I microgrid applications

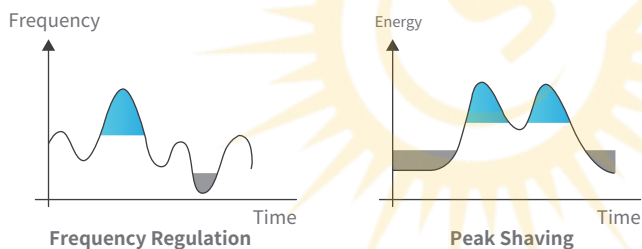
1. Applied in medium to large-scale C&I applications (Peak Shaving & Valley Filling)



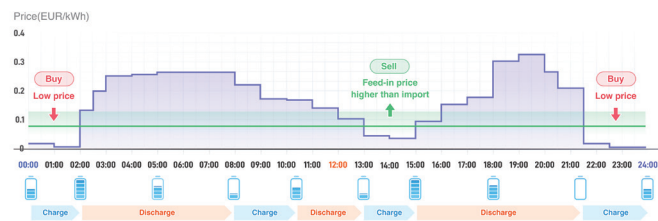
2. Integrated with renewable energy storage systems to smooth power output



3. Used for Peak Shaving and Frequency Regulation on the power generation side



4. Participates in virtual power plants to provide ancillary power services (electricity trading)



www.deyeess.com / www.deyeinverter.com



Deye ESS / Deye New Energy