



Pomega



Powering the Grid of Tomorrow

Pomega Energy Storage Technologies

Established as an automation company in



In 4 continents worldwide control



2008

9 offices

As an EPC Company, providing turnkey projects and completed over



As a leading global company has a footprint in



350 projects

+40 countries

Technology provider for a sustainable future



5 factories
2 R&D Centers

One of the largest system integrator in the World

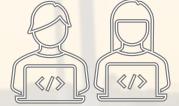


22nd

A big family with a multinational staff



Design and engineering for future



+1.400 people

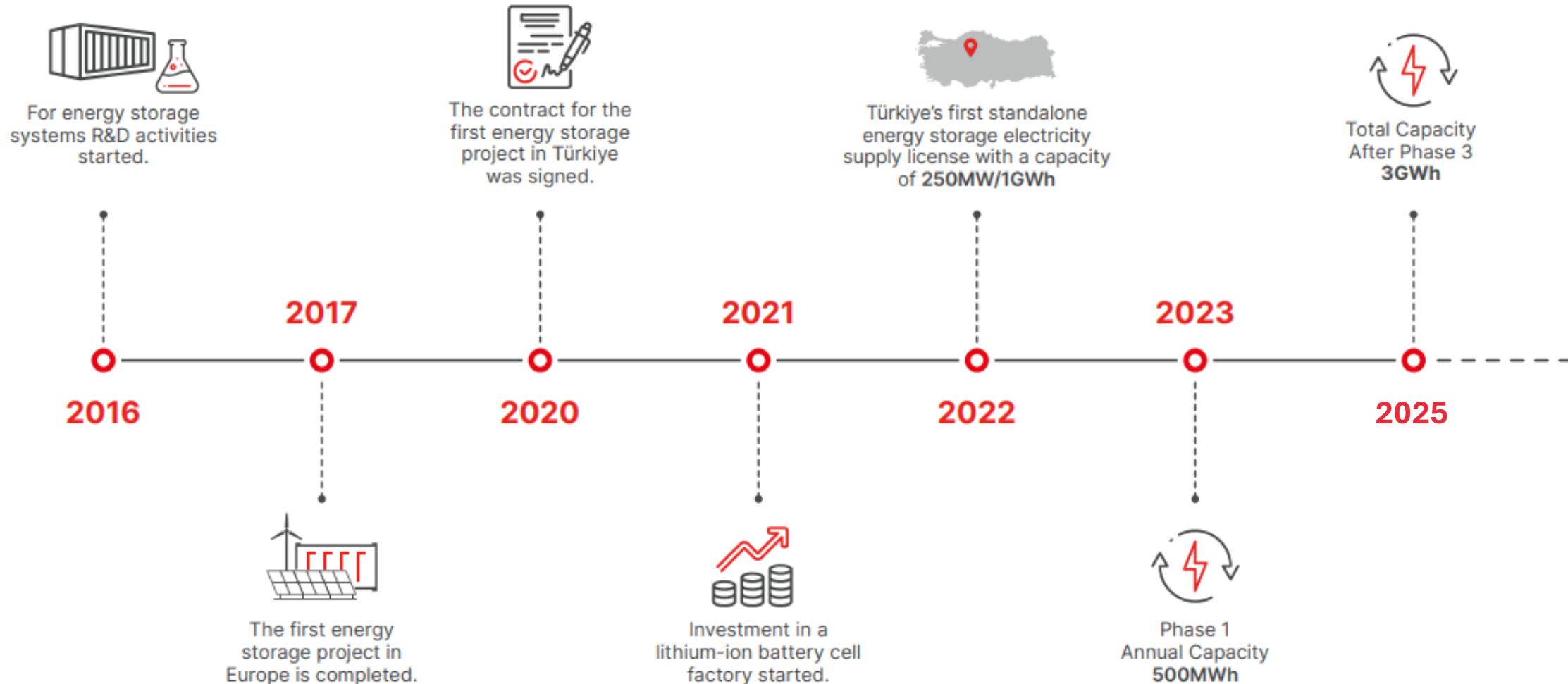
+65%

Pomega's shareholding structure comprises 88% ownership by Kontrolmatik, 10% by İş Portföy, and 2% by Rubellius.



Our Journey

over 9 years of strong experience in the battery sector

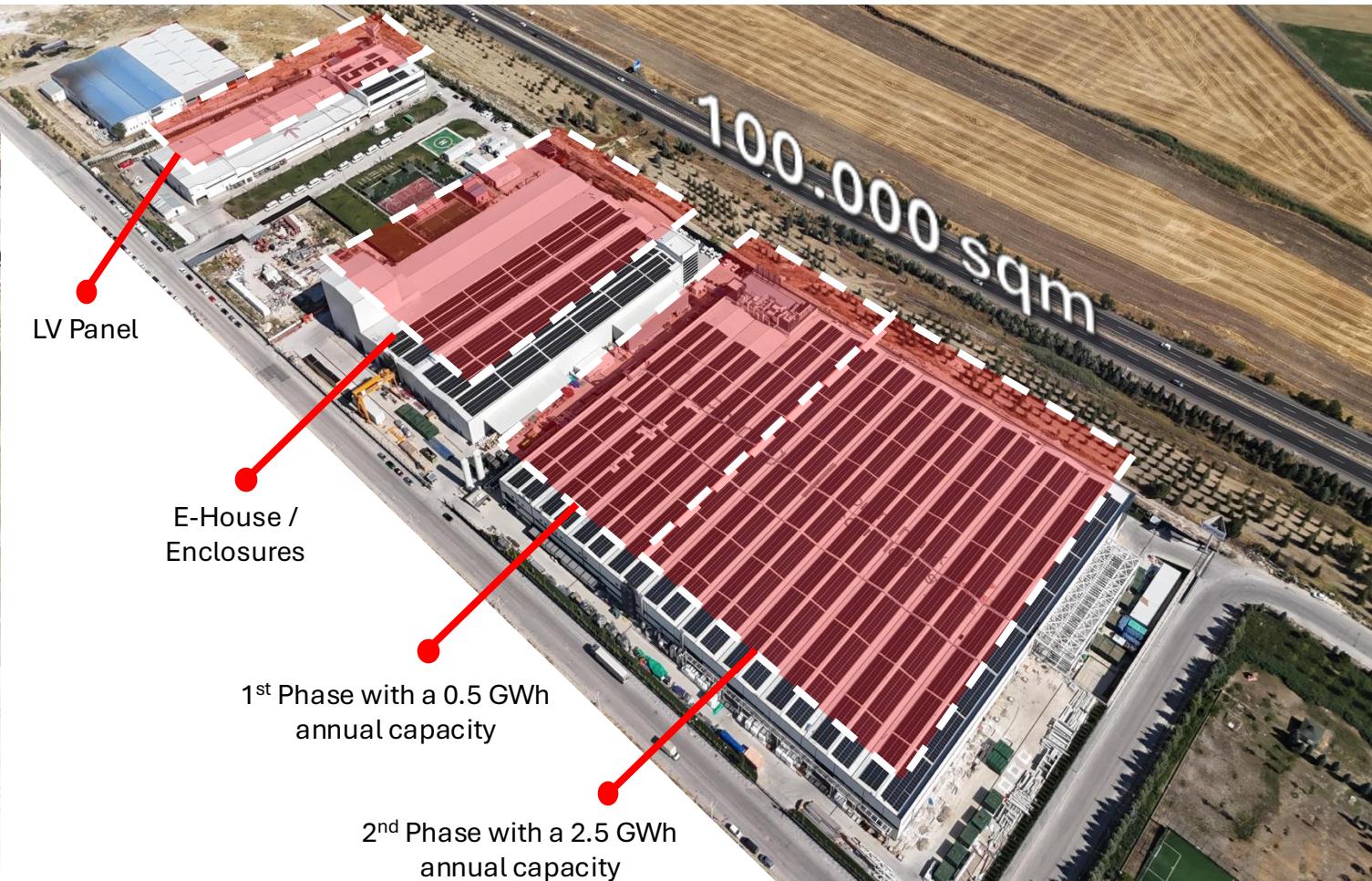




European Independent **Battery Giga Factory**

Pomega

Pomega is the first and only LFP battery cell and BESS manufacturer in the region



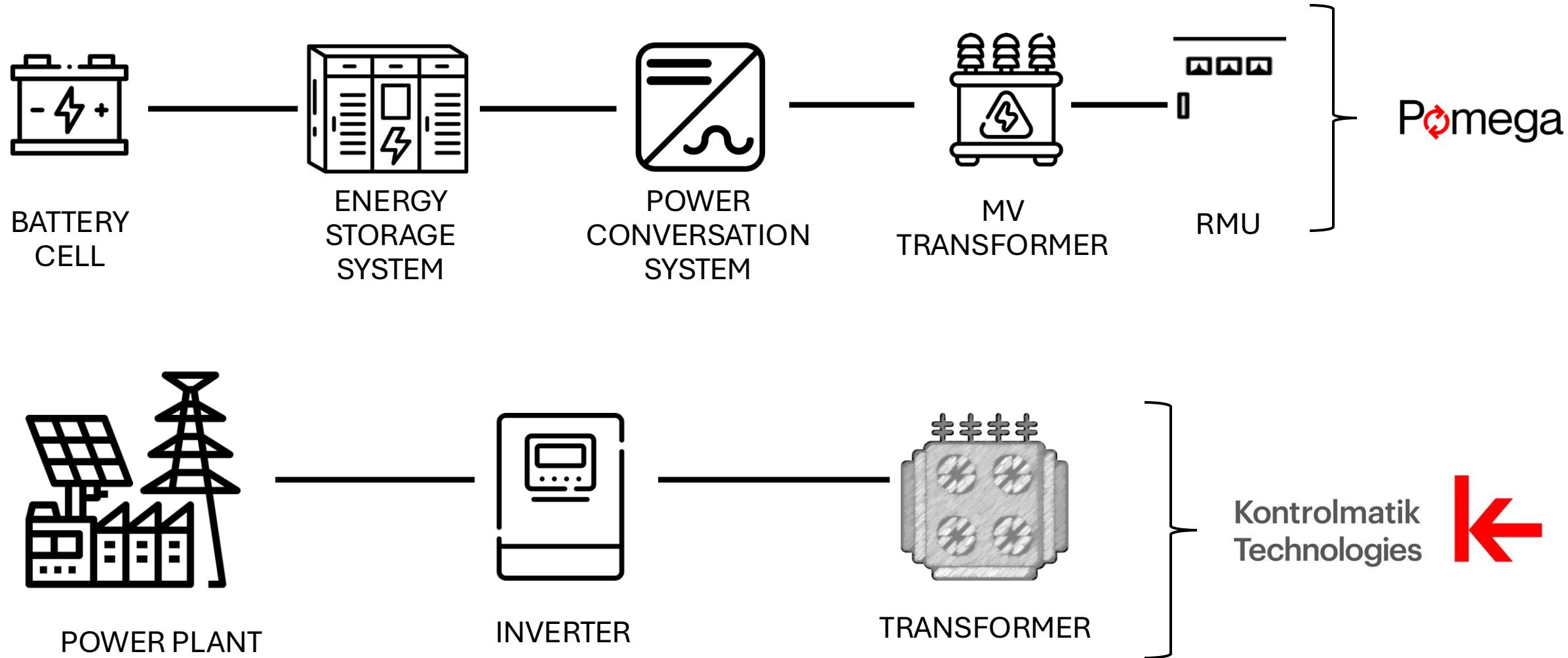
- + The region's **very first and only** Prismatic-Lithium-Ion (LiFePO4) Battery Cell was **opened in August '23**,
- + From **battery cell** to the **end-products**
- + **500 MWh/year** inaugural capacity,
- + Will be increased to **3 GWh/year** by Q4/2025,
- + Low-Emission **gigafactory** with **zero waste** and carbon-neutral production,
- + **LEED Certification**, Roof-top SPP, waste heat recovery, rainwater harvesting and more.



Creating All Battery Ecosystem

unique position in the market against far-east manufacturers

Pomega

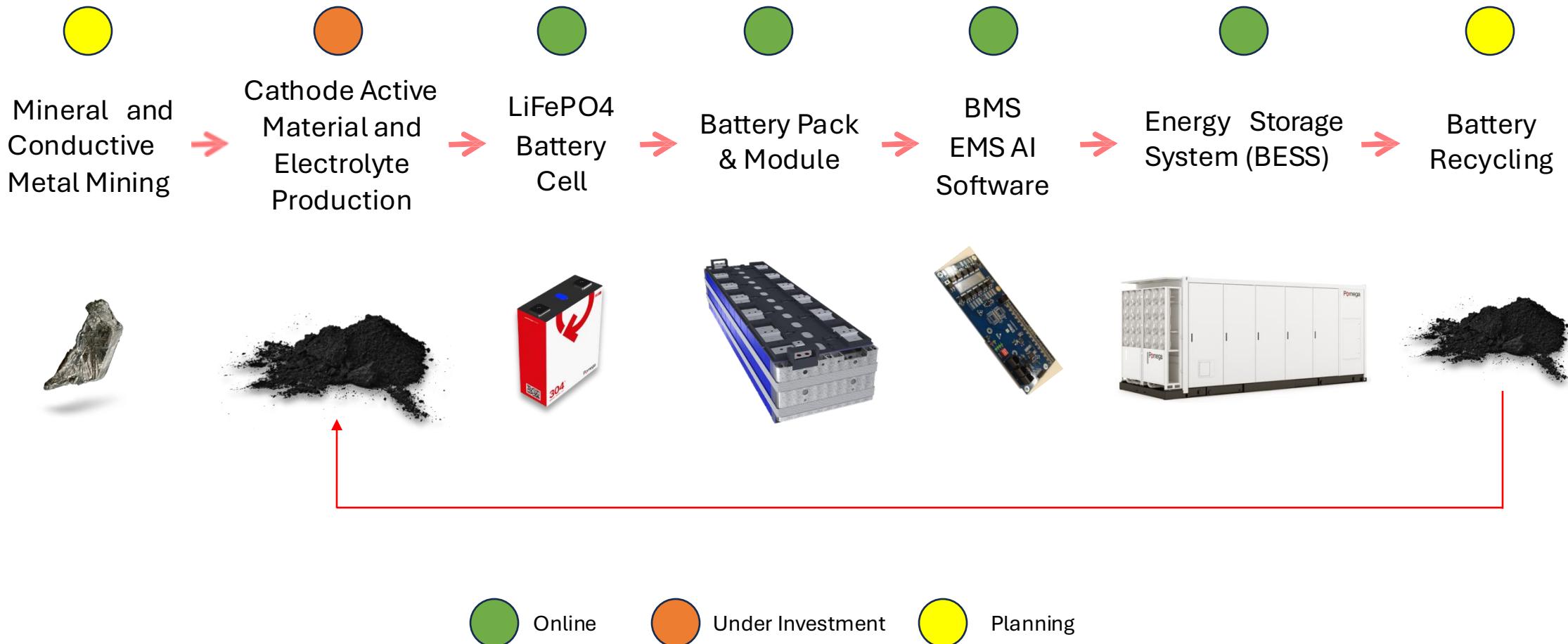




Creating All Battery Ecosystem

unique position in the market against far-east manufacturers

Pomega

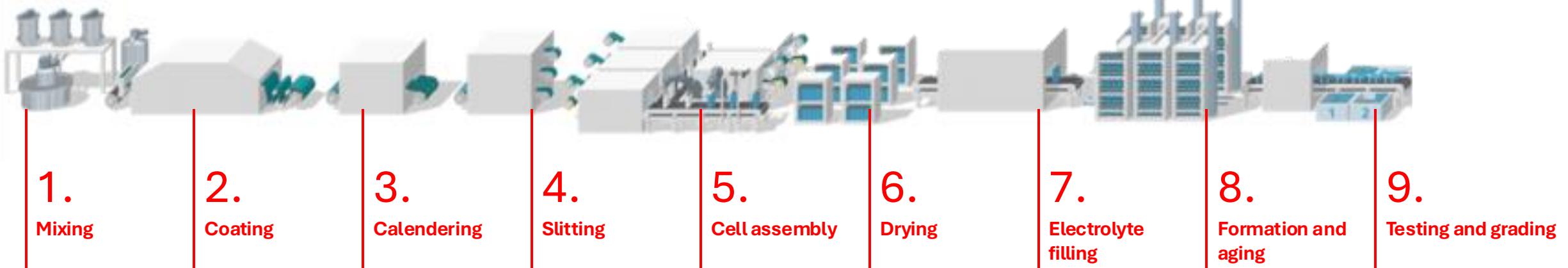




Advanced Manufacturing

from raw material to the battery energy storage system

Pomega





Pomega plays a pivotal role in the energy transition

offering end-to-end battery and energy storage products

Pomega

Main Sectors



Residential



Telecom



Grid-Scale



EV-Charging



Marine



Defence

Certifications



ISO Standards



UL Certification – NAR, SAR & World Wide



IEC Certificates / World Wide



Certificate of Confirmation for ISO, IEC & EN



Certificate of Confirmation for IEC



From Türkiye to The World

Pomega



LFP Battery Cells



LFP Battery Packs



LFP Storage Cluster



Residential Energy Storage Products



Utility Scale Energy Storage System



Products

LFP Battery Cell

Pomega



LONG-LAST USE

Lithium-Iron Phosphate Battery Cells enable a high number of cycles, ensuring smooth system operation and maximizing overall life cycle.



SMOOTH OPERATION

Work smoothly under every circumstances



EFFECTIVE AND PROFITABLE

Provide high stability solutions to their users for multiple purposes.



FLEXIBLE AND CONVENIENT

Easy to install and maintain with modular design.



Mall



Hospital



Public Building



Residence



Factory



Solar Power Plant



Wind Power Plant



Thermal Power Plant



National Grid Connection



Products

314 Ah LFP Battery Cell



(*) Test Conditions: 25°C, at 80% DOD, 80%SOC

(**) Test Conditions: 25°C, at 70% DOD, 70%SOC

(***) Performance may vary in different conditions

Pomega

Basic Properties		PLFP-314
Cell Type	LiFePO4 - Prismatic	
Nominal Capacity	314 Ah	
Nominal Voltage	3.2V	
Charge Cut-off Voltage	3.65V	
Discharge Cut-off Voltage (> 0°C)	2.50V	
Charge Cut-off Current	0.05C	
Discharge Temperature (***)	-30~60°C	
Charge Temperature	0~55°C	
Storage Temperature	-30~60°C	
Standard Charge/Discharge Rate (25°C)	0.5C/0.5C	
Max. Continuous Charge/Discharge Rate	1C / 1C	
Max. Pulse (30s) Charge/Discharge Rate	2C / 2C	
ACR (25°C, 15%SOC,1KHz)	0.10~0.25mΩ	
DCR (25°C, 50%SOC,100A/10s)	≤0.4mΩ	
Self Discharge	≤3%/month (100%SOC, 25°C ± 2C)	
Cycle Life	≥9000(**)	
Physical Properties		
Humidity Range	0-85%RH (non-condensing)	
Altitude	<3000m	
Case	Prismatic - Aluminium	
Width	173.82 ± 0.5 mm	
Depth	71.72 ± 0.5 mm	
Height (No Pole)	204.22 ± 0.5 mm	
Height (Including Pole)	207.01 ± 0.5 mm	
Weight	5.60 ± 0.84 kg	



Products

Residential Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



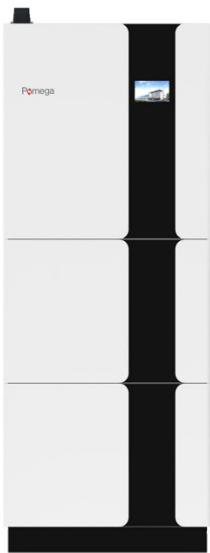
Multi Task

Using residential energy storage systems combined with solar or wind power plants and connected to the grid enables a home to store excess clean energy either for its own use or for selling back to the grid. The system can then recharge from the grid automatically during off-peak hours, capitalizing on cheaper tariffs. This setup creates a more flexible energy system, increasing the possibilities for renewable energy and helping to decarbonize the grid.

We accord a right to the people for choosing their energy source and believe that everyone has a right to use sustainable energy. POMEGA Residential Energy Storage Systems give you energy independence.

APPLICATIONS

- ➊ One package with inverter and battery
- ➋ Advanced energy management
- ➌ Off-Grid & On-Grid applications
- ➍ Long lifetime
- ➎ Reliable and safe technology
- ➏ Elegant design
- ➐ Easy installation & operation
- ➑ Expandable capacity

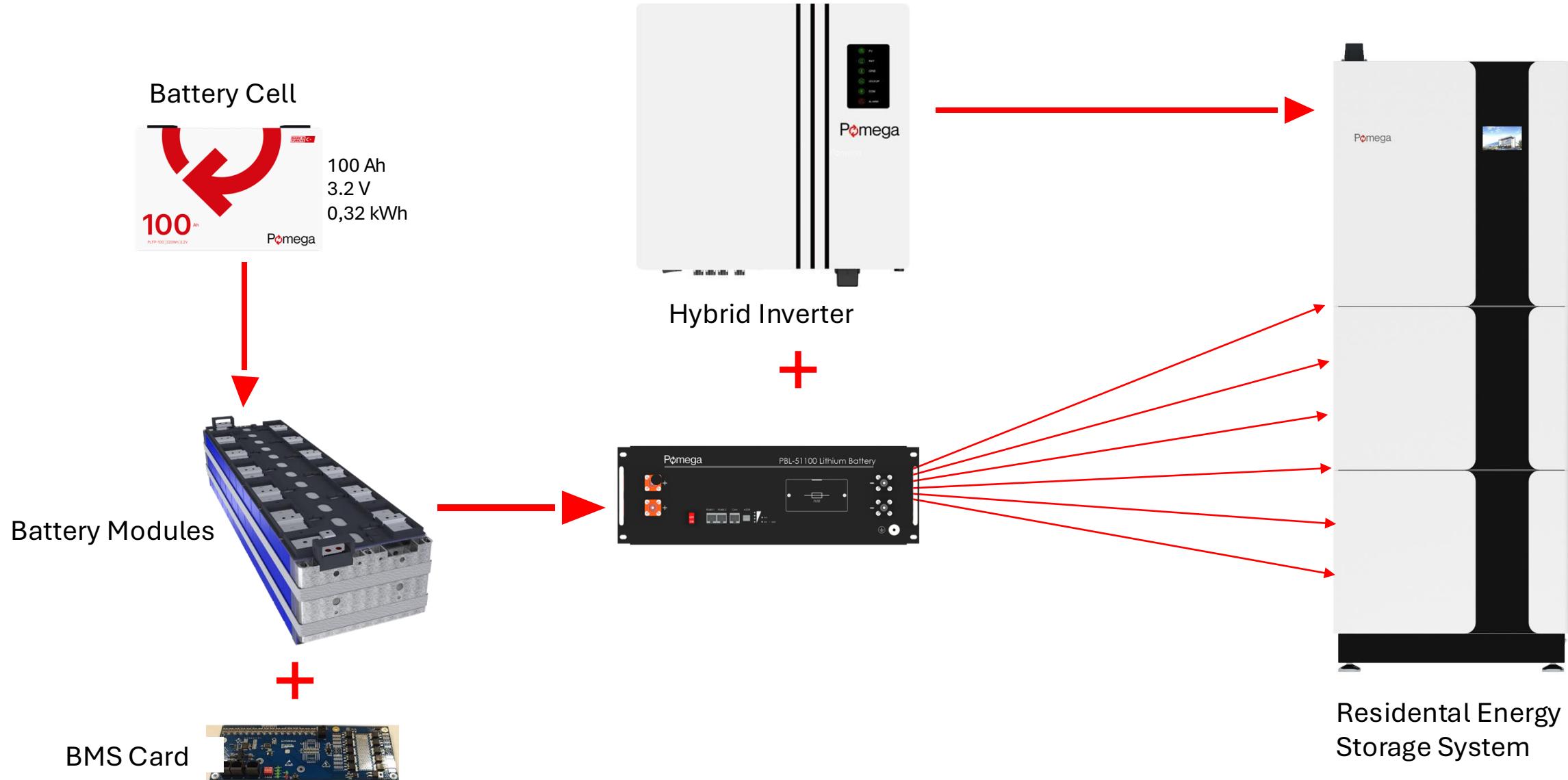




Products

Residential Energy Storage Systems

Pomega

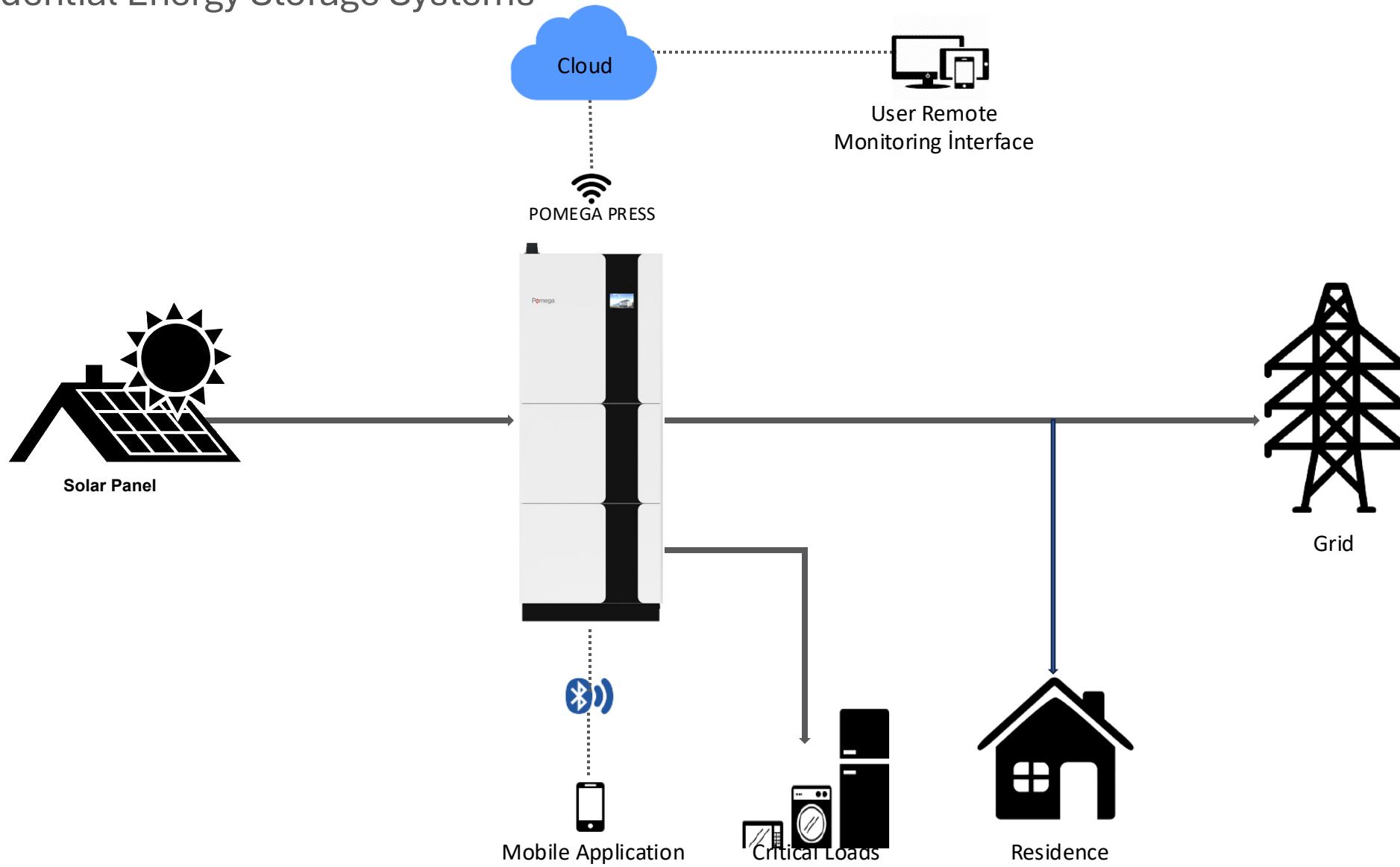




Products

Residential Energy Storage Systems

Pomega

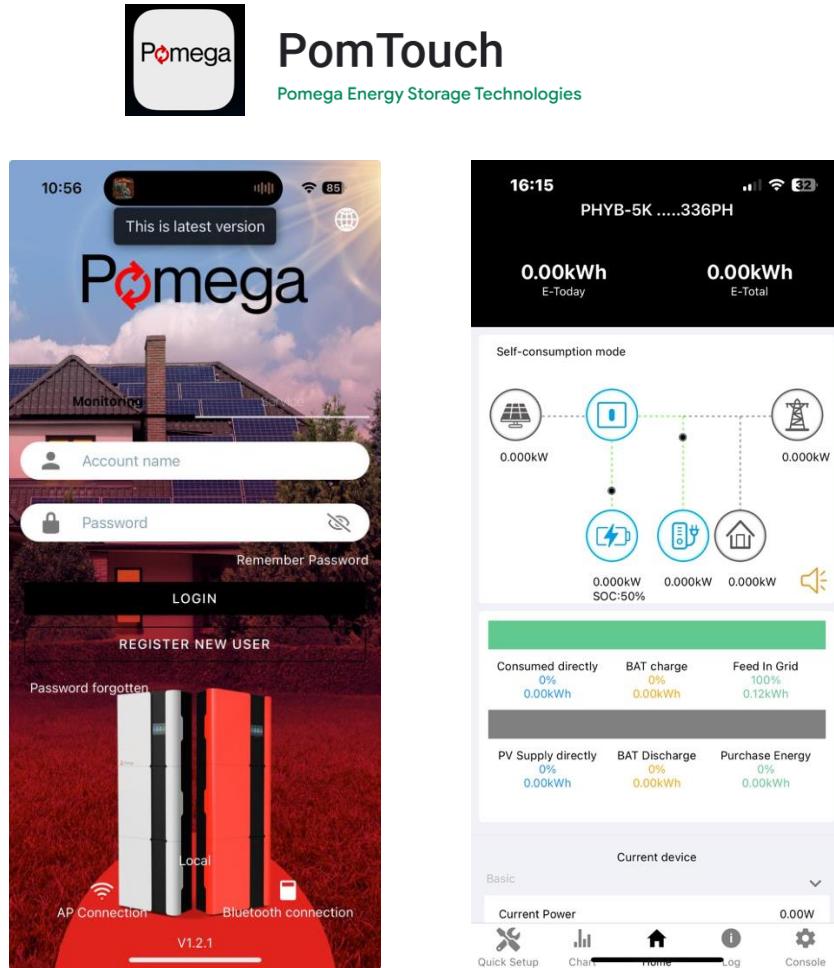




Products

PomTouch Application

Pomega



- ➊ Available on Google Play Store App Store
- ➋ Easy-to-navigate
- ➌ User-friendly interface
- ➍ Making it accessible for all users
- ➎ Does not collect any data from the phone



Products

TELECOM Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

With the introduction of 4G in the telecommunications sector, it became inevitable that energy demand would increase. It will increase even more with the introduction of 5G. In order to close this energy gap, it is inevitable that lead acid batteries will be replaced by Li-ion.

APPLICATIONS

- + Load Shifting / Peak Shaving
- + Frequency regulation
- + UPS / bridging power





Products

C&I Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

To avoid the effects of variable energy prices in the industries, Energy Storage Systems give a chance to control energy consumption.

Balancing power grids and saving energy costs, represents a concrete means of improving energy efficiency and integrating more renewable energy sources into electricity systems.

It will also help to enhance and create a well-functioning internal market with lower prices for consumers.

APPLICATIONS

- Peak shaving
- Load shifting
- UPS / bridging power
- Maximization of self consumption
- Backup power
- Grid flexibility services
- Black start





Products

C&I & EV-Charger Station Energy Storage Systems



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

Energy storage has increasingly been used as a solution for deploying electric vehicle charging in areas where the grid is constrained or where a high number of rapid - 50kW or above - chargers are to be deployed. Installing stationary storage for these stations can reduce the huge power supply investments.

Energy Storage Systems can be installed with Solar Systems in order to have a more reliable and sustainable infrastructure for EV Charging Stations. With this approach, installations of EV Charging stations can be decentral, flexible and independent.

APPLICATIONS

- +
- Demand control
- +
- Peak shaving
- +
- Load shifting
- +
- UPS / bridging power
- +
- Backup power
- +
- Grid flexibility services

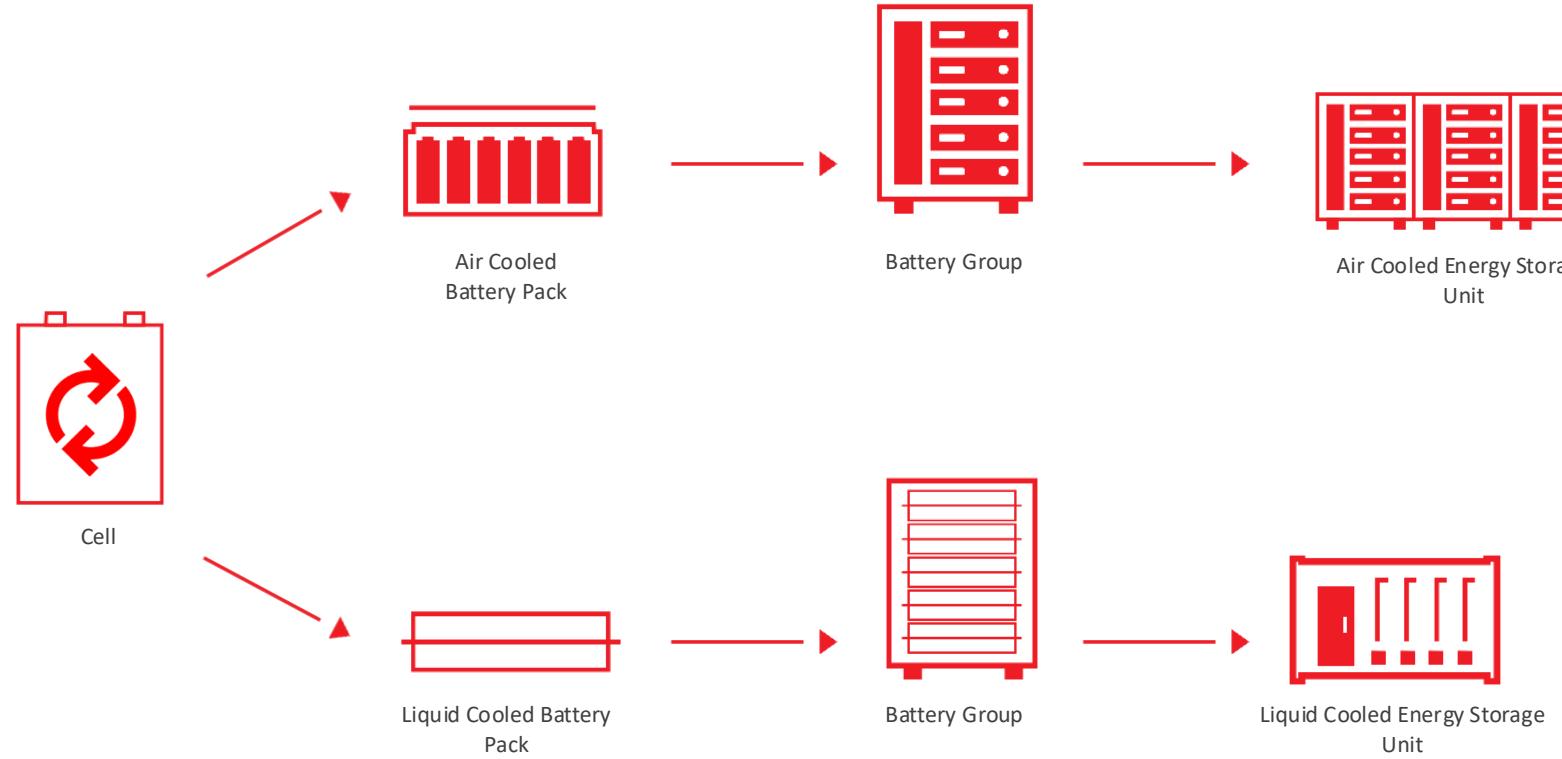




Products

C&I Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency

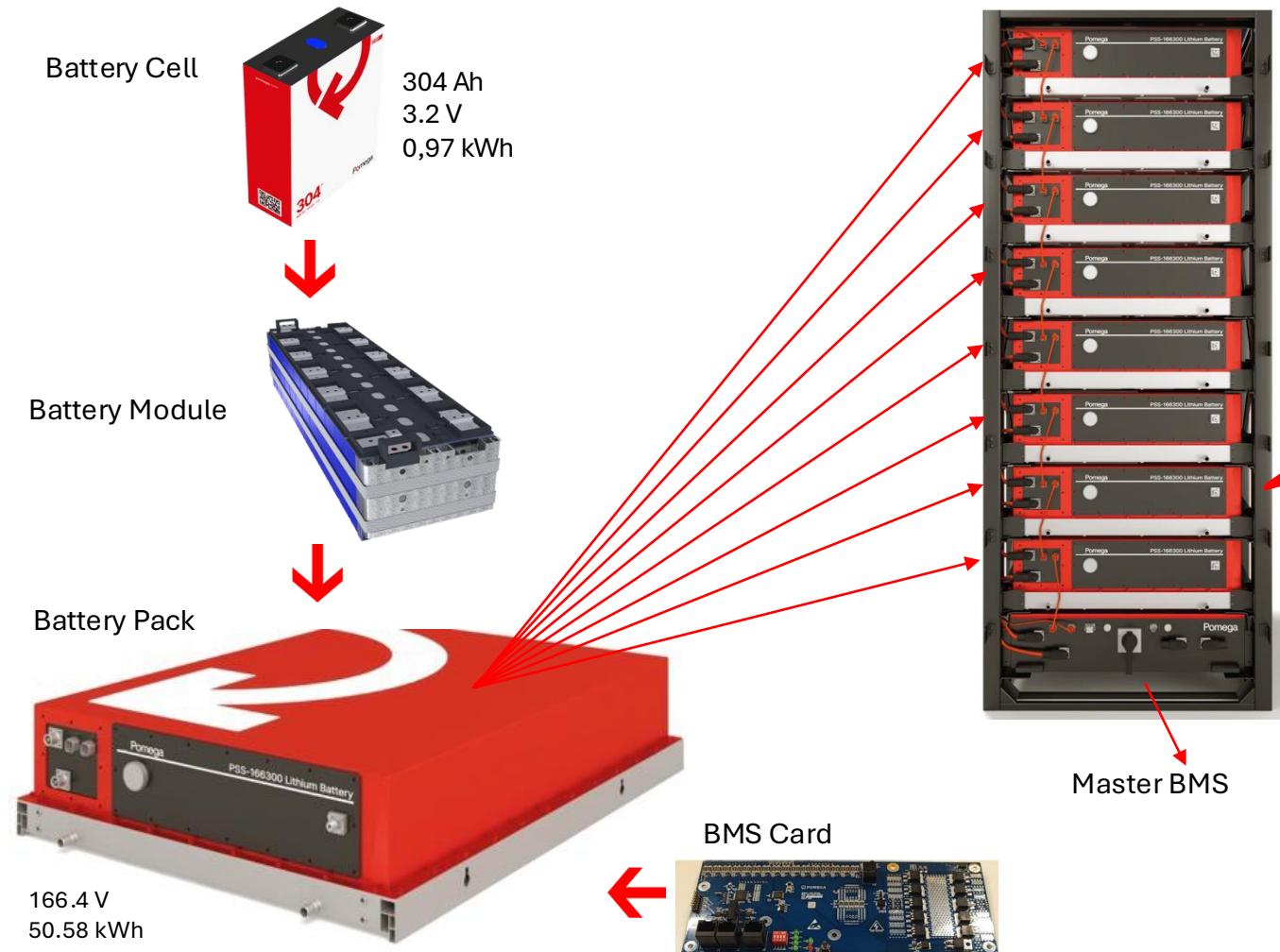


Multi Task

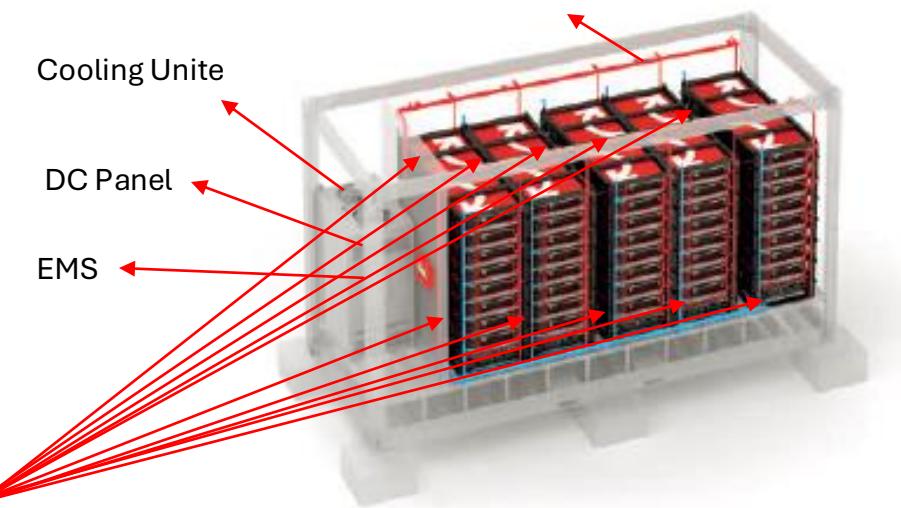


Products

Grid-Scale Energy Storage Systems



Fire Detection & Suppression



Utility Scale Energy Storage System





Products

Grid-Scale Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

Renewable energy power plants, with their fluctuating structures, have variable and sometimes unpredictable production profiles throughout the day.

Energy Storage Systems offers unique opportunities to maintain renewable energy-based generation and to ensure that fewer conventional power generation facilities are needed on the grid. With these systems, excess production can be stored during the day and used when production decreases.

APPLICATIONS

- ✚ Peak Shaving
- ✚ Load / peak Shifting
- ✚ Spinning reserve displacement
- ✚ Ramp rate control
- ✚ Frequency regulation
- ✚ Energy arbitrage
- ✚ Black-start
- ✚ UPS / bridging power
- ✚ Transitional power
- ✚ Power factor correction





Products

Standalone Energy Storage Systems

Pomega



Designed to provide low-cost, high-density grid-scale solutions, Energy Storage Plants are able to be monitored and controlled 24/7 remotely, by providing the solutions needed by the grids with fully integrated battery modules, inverters, battery and energy management systems.

APPLICATIONS

- ✚ Advanced energy management
- ✚ Off-Grid & On-Grid applications
- ✚ Long lifetime
- ✚ Reliable and safe technology
- ✚ Expandable capacity



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



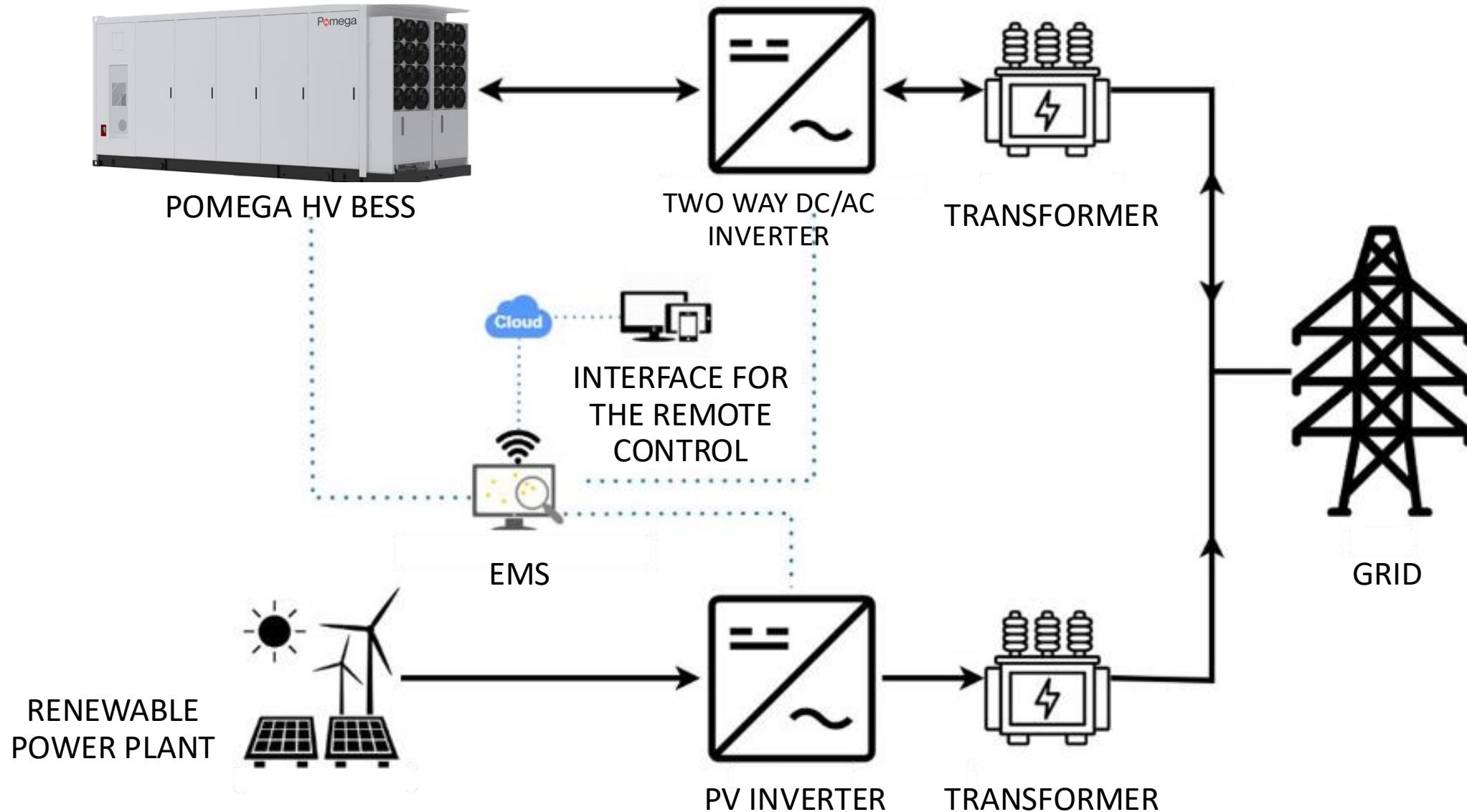
Multi Task



Products

Battery Energy Storage Systems

Pomega





Products

Defence Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



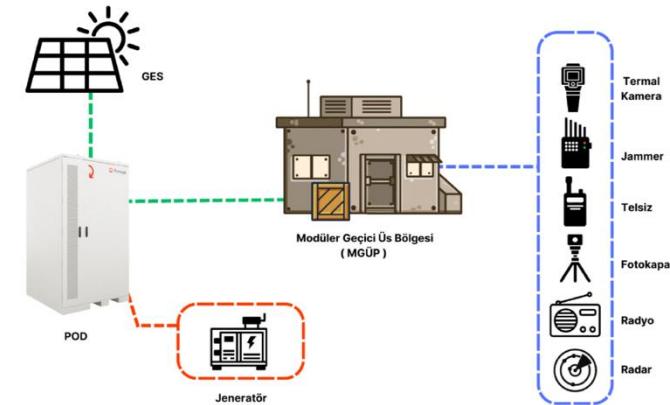
Multi Task

Microgrids offer lower investment costs as they do not require the establishment of a renewable energy facility. They provide additional protection against power outages and main grid failures, enhancing energy security.

When disconnected from the main grid, microgrids can continue operating independently by drawing energy from batteries. Additionally, they facilitate the integration of renewable energy sources such as solar and wind, contributing to the reduction of carbon emissions.

APPLICATIONS

- ✚ Uninterrupted Power Supply
- ✚ Energy Independence and Security
- ✚ Renewable Energy Integration
- ✚ Cost Efficiency
- ✚ Emergency and Crisis Management
- ✚ Operational Flexibility
- ✚ Mobility
- ✚ Reliable and Continuous
- ✚ Psychological Superiority
- ✚ Term Strategic Planning





Products

Mobility Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

In this period when electric vehicles are gaining importance, especially electric vehicles on the commercial side must have high cycle levels. For this reason, the conversion of L7 class vehicles to electric, especially large commercial vehicles such as Electric Buses and Trucks, as well as Forklifts, Golfs and small area transportation, is of great importance.

APPLICATIONS

- Easy installation and operation
- Increasesable capacity
- Modular structure
- 12V, 24V, 48V, 80V and 400V battery designs





Products

Marine Energy Storage Systems

Pomega



Easy Integration



Modular & Mobile



Plug & Play



Remote Control



High Efficiency



Multi Task

Powering a New Era of Sustainable Marine Exploration. The vast expanse of the oceans has long beckoned with the promise of adventure and discovery. However, traditional marine battery technology has imposed limitations, tethering vessels to shore power and compromising environmental responsibility. With the advent of LifePO4 batteries, a paradigm shift is underway, empowering a new era of sustainable and independent exploration.

Pomega LifePO4 batteries represent a transformative leap in marine technology, empowering a future of boundless exploration, unwavering performance, and responsible environmental stewardship. Choose the power of innovation and chart a course towards a more sustainable and exhilarating nautical experience.

APPLICATIONS

- ⊕ Peak Shaving
- ⊕ Load / peak Shifting
- ⊕ Spinning reserve displacement
- ⊕ Ramp rate control
- ⊕ Frequency regulation
- ⊕ Energy arbitrage
- ⊕ UPS / bridging power
- ⊕ Transitional power



