



Formosa LFPo Battery Energy Storage System

F O R M O S A L F P O S M A R T P O W E R



台塑企業
FORMOSA PLASTICS CORP.

Our Mission and Vision

The Mission To supply cathode materials with high quality and volume.

To be the world leader of lithium iron phosphorous oxide cathode materials.

To meet needs for high power and large-scale energy storage applications.

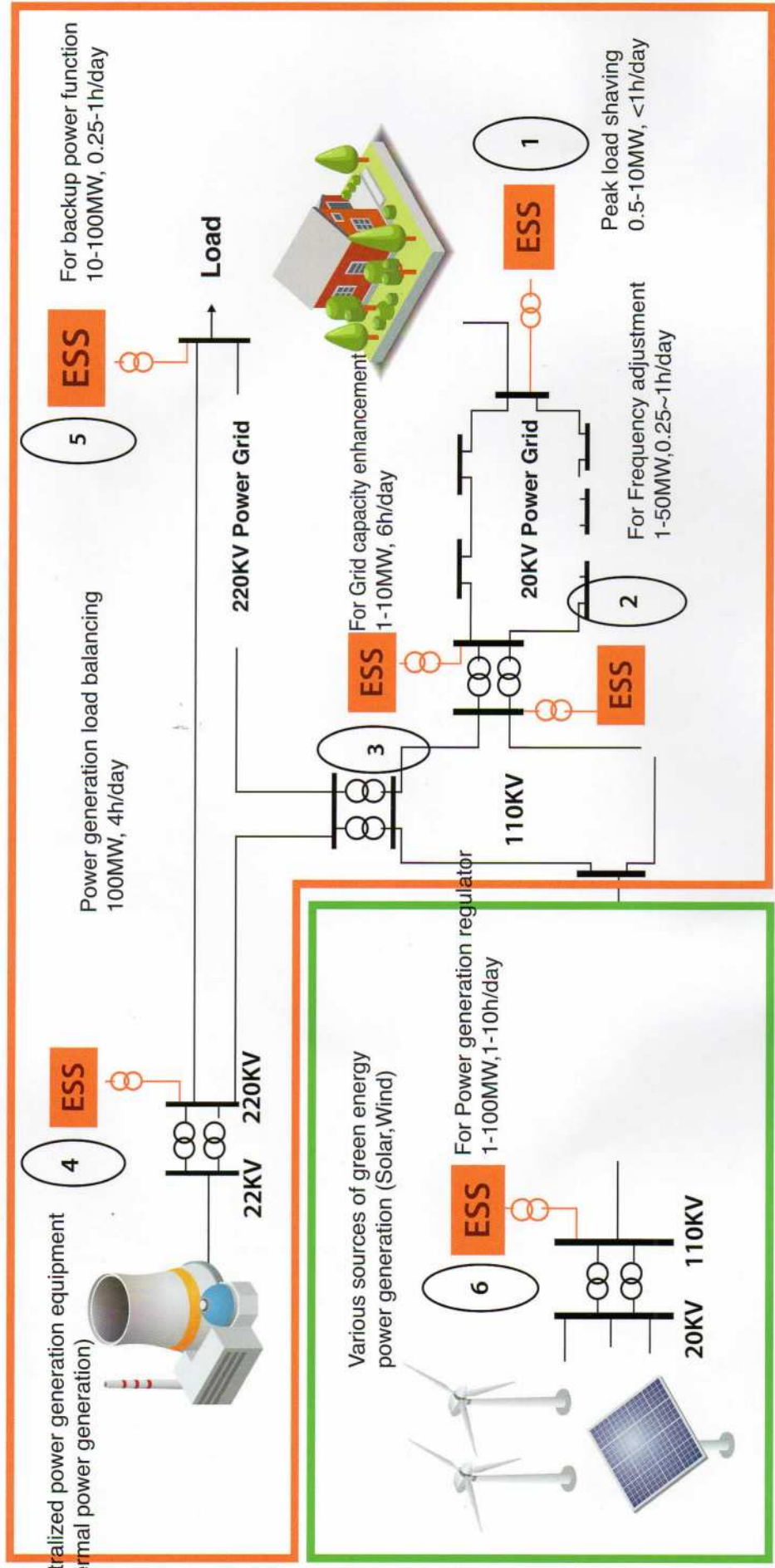
The Vision To be the clean and green energy source provider.



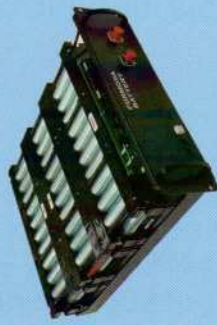
台塑汽車貨運股份有限公司
FORMOSA PLASTICS TRANSPORT CORPORATION

ESS Power System Context Diagram

- 1. Peak load shaving
- 2. Frequency adjustment
- 3. Grid capacity enhancement
- 4. Load balancing of generator
- 5. Backup power
- 6. Power generation regulator



Formosa LFPO Battery Energy Storage System



3U Battery module
48V 84Ah(4KWh) / Module



19-inch Energy storage cabinet
624V84Ah(52KWh)

Inside of ESS



Energy Management System (EMS)



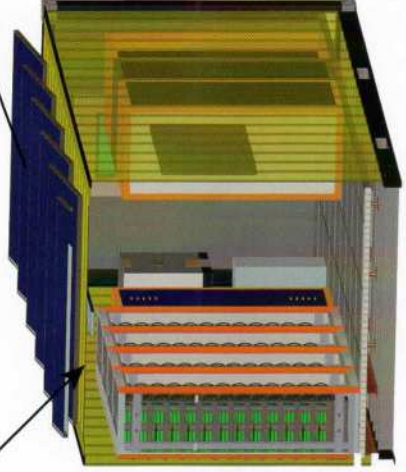
Power Conversion System (PCS)



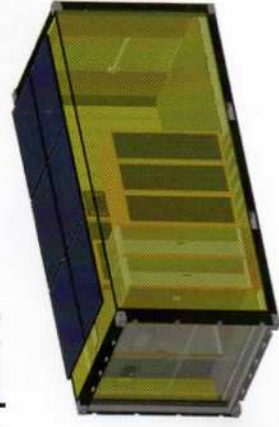
LED



Solar panels



Inside of ESS



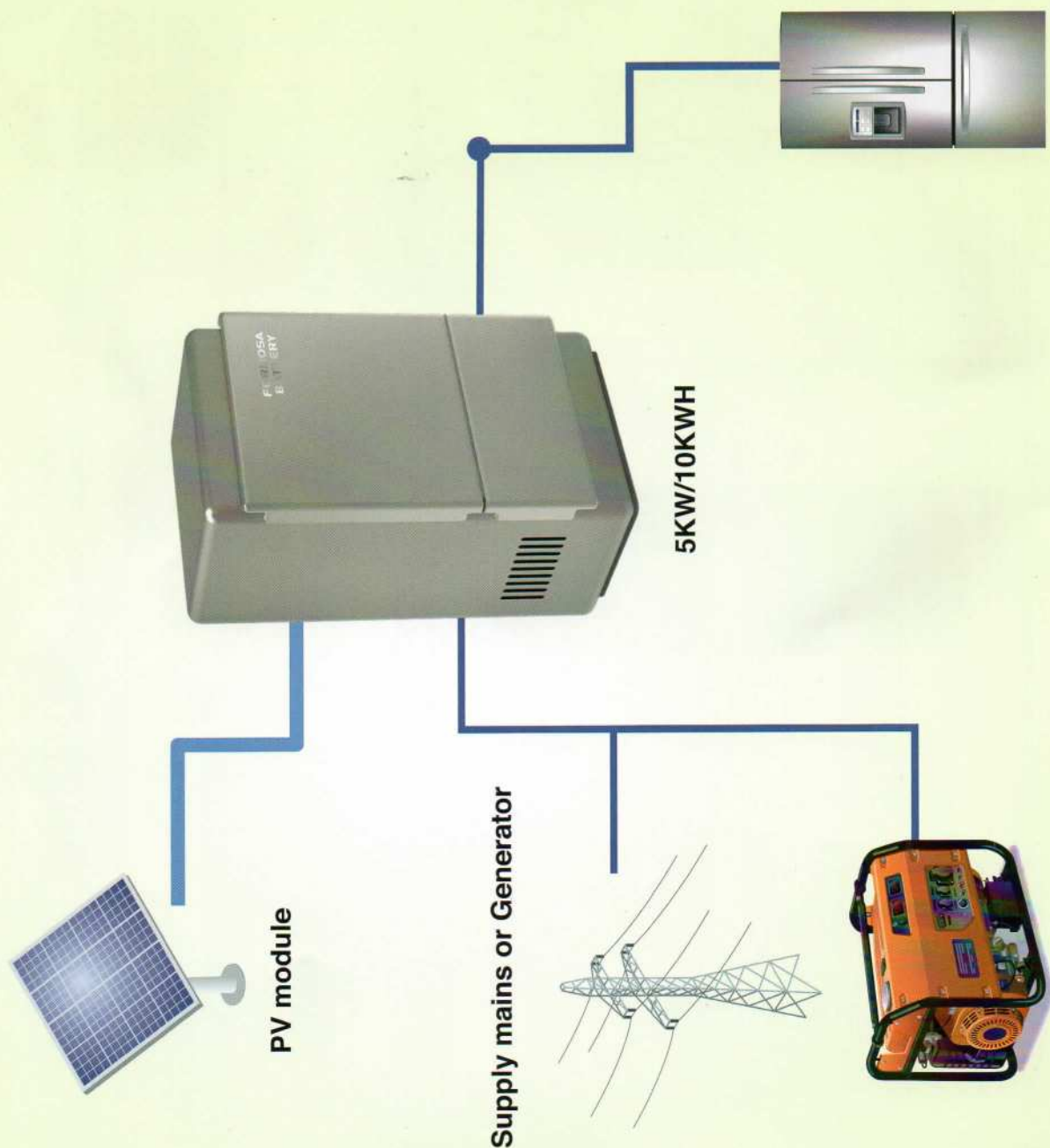
Internal layout of ESS



Hybrid Energy Storage System



台塑企業
FORMOSA PLASTICS GROUP



Energy	5KW/10KWH		
AC input	V/HZ	220/60	
Frequency	V/HZ	220/60	
Maximum current	A	25	
FORMOSA LFPO Battery(3U 48V52.5AH * 4/Group)			
Voltage	Vdc	48	
Capacity	Ah	210	
AC output			
Power	W/VA	5000/5000	
Frequency	Vac/HZ	110~240/60	