

# Case Study



# OUR RELIABILITY IS PROVEN

Pylontech has delivered over **1,000,000+** BESS globally since 2013







 **Mexico**

 **PV+ BESS+ DG**

 **Peak Shaving  
Back Up**

 5MW/10MWh

 2023



## Total system capacity of 5MW/10MWh, 14 Battery Energy Storage Systems (BESS) at 14 different airports

 Mexico  PV+ BESS+ DG  Peak Shaving / Back Up

### Background:

Airports are known for their high and variable energy demands, often resulting in peak-time consumption spikes and vulnerability to power supply interruptions. To combat these challenges, the project turned to BESS technology, known for its ability to efficiently manage energy resources and provide instant backup.

### Implementation:

Strategically positioned across the 14 airports, the BESS systems were designed to charge batteries during off-peak hours and discharge during peak demand periods. This ingenious approach effectively reduced peak-time energy consumption while maintaining consistent energy supply.

### Benefits:

Energy cost reductions were achieved through **peak shaving**, off set the high peak demand, offering significant financial savings.


The BESS systems provided nearly **instantaneous protection against power supply interruptions** and grid failures, safeguarding airport operations.

Improved power factor led to **enhanced energy efficiency**, further reducing operational costs.





 **Asia**

 **PV+ BESS**


 **Peak Shaving**

 3.2MW/7MWh

 2023



 **Asia**

 **PV+ BESS**

 **Peak Shaving**

 **2MW/4MWh**

 **2023**





 **Asia**

 **Grid+ BESS**

 **Back Up**

 100KW/200KWh

 2023



 **Asia**

 **Grid+ BESS**

 **Peak Shaving  
Back Up**

 1MW/2MWh

 2023





 **Asia**

 **Grid+ BESS**


 **Peak Shaving**

 0.5MW/1MWh

 2023



 **Asia**

 **PV+ BESS**

 **Self-Consumption  
Back Up**

 500KW/1MWh

 2023





**Mid East**



**Self-Consumption**



**DG+BESS**



630KW/613KWh



2023



**Europe**



**Grid Service**



400KW/432KWh



2023





 **Europe**

 **Self-Consumption**

 1MW/2MWh

 2022



 **Europe**

 **Self-Consumption**

 264KW/324KWh

 2022





 **Asia**

 **Self-Consumption**

 60KW/109KWh

 2022



 **Europe**

 **Grid Service**

 1MW/2MWh

 2022





 **Oceania**

 **Self-Consumption**

 85kWh

 2022

#10 Case No.



**Oceania**



**Off-Grid**



200kW/600kWh




2022





 **Europe**

 **Self-Consumption**

 218kWh

 2022



 **Oceania**

 **Off-Grid**

 200kWh


 2022





 **Oceania**

 **Off-Grid**

 168kWh

 2022







**Europe**



**Micro-Grid**



**Self-Consumption**



**DG + BESS**



1MW/1.5MWh



2021





 **Oceania**

 **Self-Consumption**

 **Solar+ Storage**

 2021





 **Oceania**

 **Off-Grid**

 **Self-Consumption**

 2021






 **Africa**

 **Micro-Grid**

 **Self-Consumption**

 **DG+BESS**

 375kW/756kWh

 2021

 **Oceania**

 **Off-Grid**

 **Self-Consumption**

 **PV+DG+BESS**

 2021








 **Asia**

 **Back Up**

 428kWh

 2021





 **Europe**

 **Micro-Grid**

 **Self-Consumption**

 2021







 **Africa**

 **Micro-Grid**

 **Self-Consumption**

 100KW/200KWH

 2021





**Africa**



**Off-Grid**



**Self-Consumption**



2021







 **Europe**

 **Micro-Grid**

 2021

 **PV+DG+BESS**



 **Europe**

 **Grid Service**

 1.5MW/1.5MWH

 2021





**Asia**



**Off-Grid**



**PV + DG + BESS**

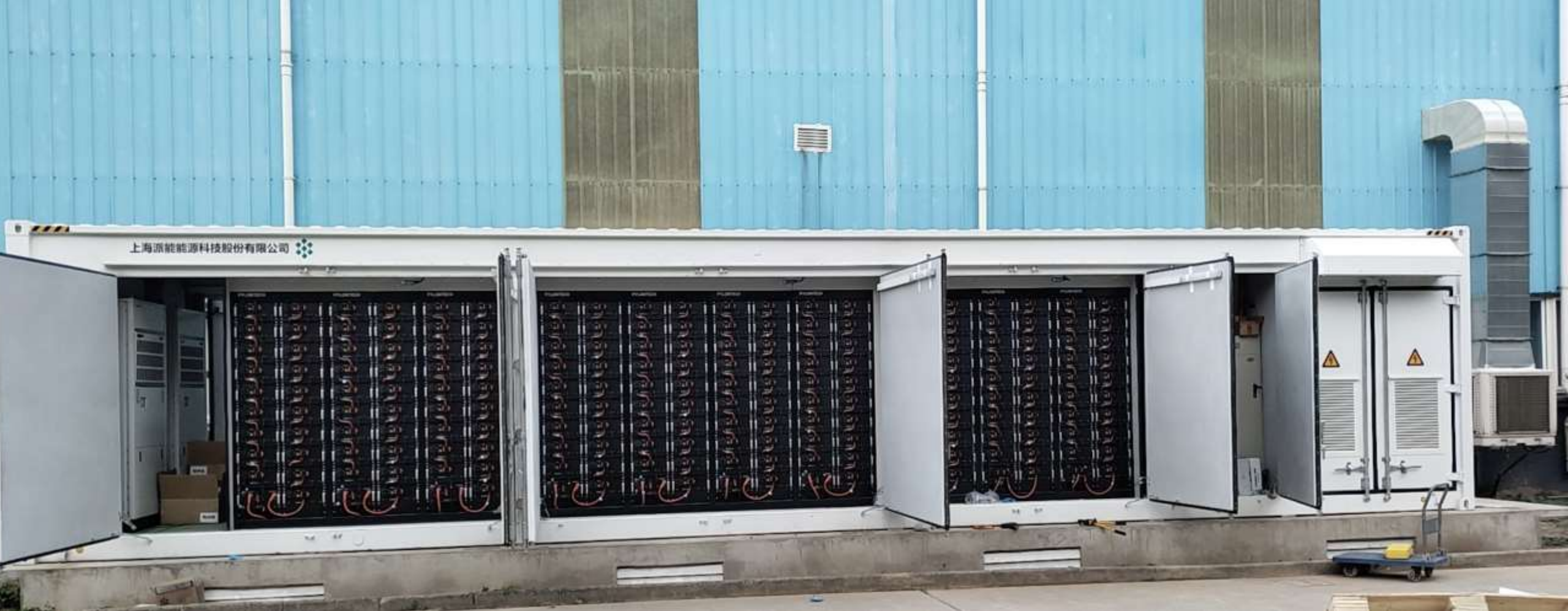


1.2MW/2.65MWH



2020





 **Asia**



**PV + Grid + BESS**

**Self-Consumption**



1MW/2MWH



2020





 **Asia**

 **UPS**

 1MW/2MWH

 2020



 **Asia**

 **Micro-Grid**

 **Self-Consumption**

 100KW /324KWH

 2020

#31 Case No.





**Oceania**



**Micro-Grid**



**Self-Consumption**



90KW/260KWH



2020



 **America**

 **Micro-Grid**

 **Self-Consumption**

 500KW/750KWH

 2020





**America**



**Grid Service**



1MW/2.MWH



2020







 **Europe**

 **Peak Shaving**

 213KWH


 2020





 **Oceania**

 **Peak Shaving**

 90KW/260KWH

 2018



**Asia**



**Self-Consumption**



51 systems, total 1MWH



2019





 **Africa**

 **Micro-Grid**

 **Self-Consumption**

 500KW/1.5MWH


 2019



 **Europe**

 **Grid+BESS**

 **Peak Shaving**

 360KWH

 2019





 **Asia**

 **Micro-Grid**

 **Self-Consumption**

 **PV+DG+BESS**

 500KW/833KWH

 2019



 **Europe**

 **Peak Shaving**

 **PV+Grid+BESS**

 200KW /210KWH

 2019





 **Asia**

 **Micro-Grid**

 **Self-Consumption**

 **PV+DG+BESS**

 250KW /540KWH

 2017





 **America**

 **Grid+PV+DG+BESS**

 **Self-Consumption**

 100KW /220KWH

 2019





**Asia**



**Grid+PV+BESS**



1.50MW/2.5MWH



2018



 **Asia**

 **PV+DG+BESS**

 **Micro-Grid**

 **Self-Consumption**

 500KW/624KWH

 2018






 **Antarctica**

 **PV+Wind+DG+BESS**

 **Micro-Grid**

 **Self-Consumption**

 132KWH

 2019



 **Europe**

 **PV+Grid+BESS**

 50KW/108KWH

 2019





 **Asia**

 **GRID+BESS**

 2019



 **Asia**

 **PV+Wind+BESS**

 **Micro-Grid**

 **Self-Consumption**

 500KW/800KWH

 2018



# Thank You

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