

REFLEX

Energy Storage Solutions

GLZ, Pakistan

Nov 03, 2022

#TheIndustrialSolarandStorageSpecialist

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Megawatts delivered
200MW+

Operations & Maintenance Assets
110MW+

Power Purchase Agreements
10MW+

Storage Solutions
45MWh+

5 MW
Lusail Bus Project
Qatar

34 MW, 5.8MWh
Lucky Cement, Pezu

2 TELECOM PROJECTS
Enfrashare,
Makran Coastal Belt

57 MW
Bestway Cement, KPK

9.2 MW
Unilever, Punjab

TELECOM
3000+ Sites
Multiple Customers

5.3 MW
KTML, Punjab

10 MW
ENI, Bhit Gas Field

5 MW
SECMC, Tharparkar

1.4 MW, 2.8MWh
Gatron, Hub

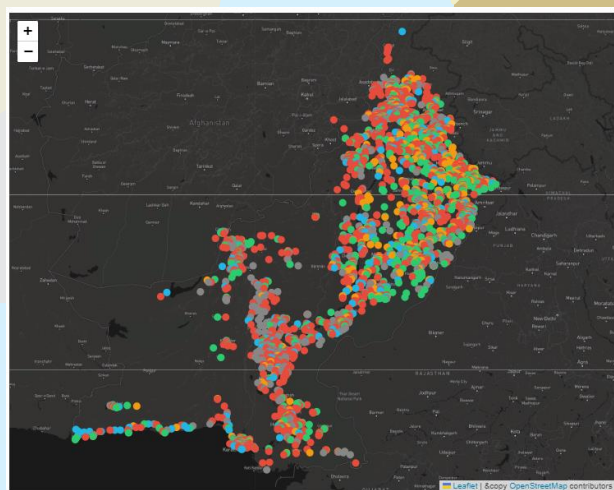
2.6 MW, 750kW/369kWh
Soorty, Karachi

3.73 MW
G&T, Sindh

4.3 MW
Indus Motors, Sindh

7.18 MW
Amreli Steel, Dhabeji

Storage Solutions Pipeline
25MWh+



THINK STORAGE

1

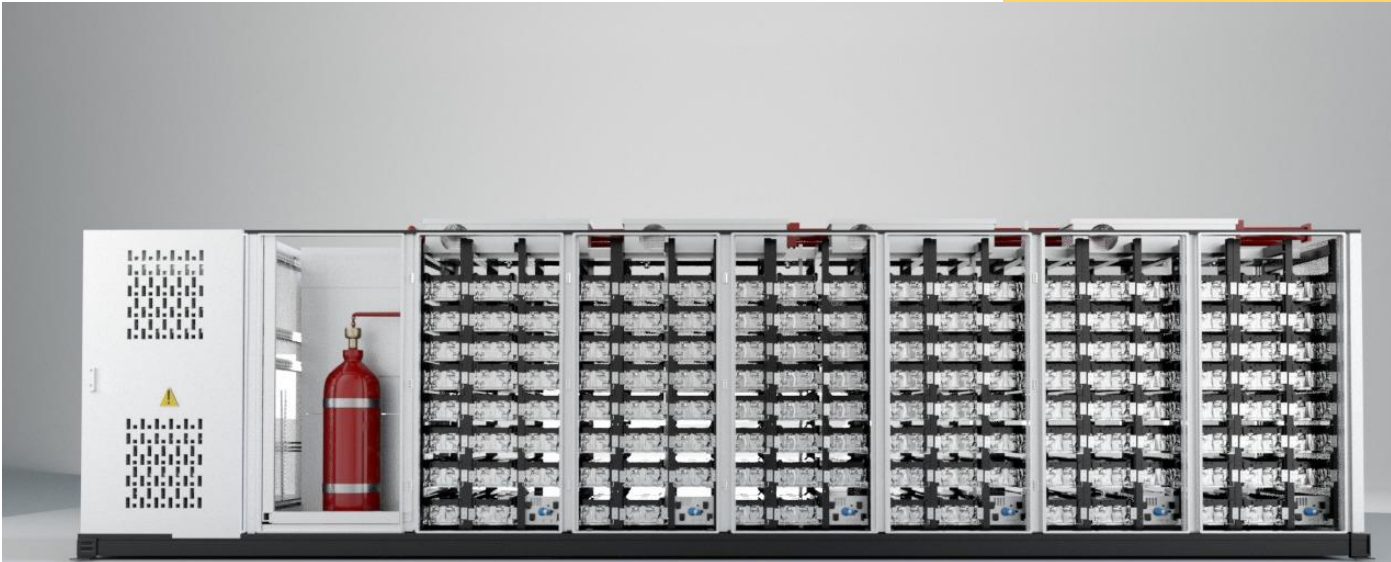
Perspective on the storage market in Pakistan

2

Why you ventured in the storage market in the C&I sector

3

Type of projects that require storage solutions



CASE STUDIES

GATRON

INDUSTRIES LIMITED

Chemical Industry

2.7MW / 2.86 MWh

Application

Hot Standby, Generator Optimization

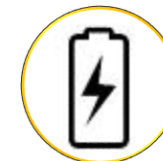
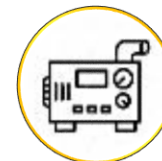
Project Stage

OPERATIONAL

- REFLEX energy storage system to be used in parallel with the 20MW+ captive generation plant to provide emergency power supply in case of generator and grid contingencies.
- Storage system will also be utilized to optimize the generator operating points by handling the variable load.
- The facility will prevent financial loss due to frequent generator / grid instability and failures.



Hub, Balochistan



SOORTY

Enterprises Pvt. Ltd.

Textile Industry

750 kW / 369 kWh

Application

Renewable Maximization

Project Stage

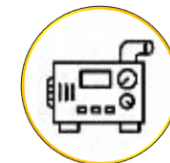
Commissioning

- Large Renewable integration with Captive Generation results in power system instability due to high variability (Weather dependence – Solar/Wind)
- REFLEX will provide Renewable firming and smoothen the dips and swells in solar plant output due to weather & any other technical contingency
- REFLEX will also assist in absorbing load peaks in non-solar hours, to reduce stress over captive generation



Korangi Industrial Area, Karachi

SOORTY
World Of Zain



Lucky

Cement Limited – Pezu

Cement Industry

5.2MW / 5.6 MWh

Application

**Renewable Maximization,
Generation Contingency &
Efficiency Improvement**

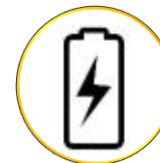
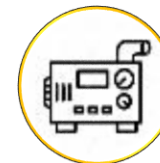
Project Stage

Installation

- 34MW of solar plant is connected with more than 120MW of captive generation, comprising of Gas and HFO Gensets + Waster Heat Recovery Plant (WHRP)
- REFLEX will stabilize WHRP output and save system from potential blackouts in events of Generator tripping
- REFLEX will also provide Renewable firming and smoothen the dips and swells in solar plant output due to weather & any other technical contingency



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