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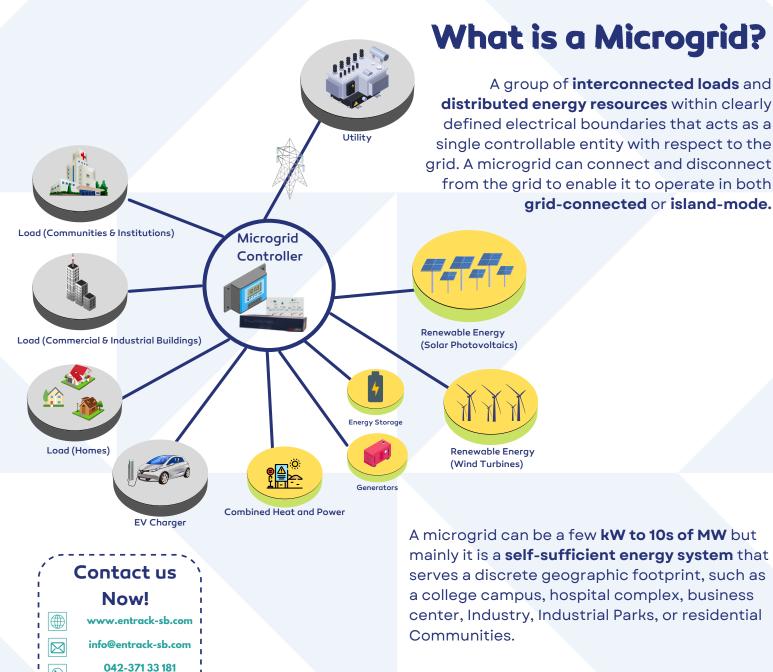
pany/sbeecpvtltd

SB ELECTRONICS ENGINEERING & CONTROL (PVT) LTD

what gets measured, gets managed

SB Electronics Engineering and Control (Pvt) Ltd. (SBEEC) is a reputable name in the market for energy management solutions. SBEEC is a premium energy services company established in 1996 as an energy services business.

We offer solutions based on cutting-edge technologies involving Artificial Intelligence, Machine Learning, and Data Analytics driven by decades of experience in the energy market with a presence across Pakistan. SBEEC currently provides a wide range of energy solutions, including the design and implementation of energy-saving projects, energy management, energy infrastructure outsourcing, energy supply, and risk management.





The MG development starts with first modeling your **AC load** both active and reactive requirements while making considerations for both the steady-state energy requirements and the transient behavior of the load. An Energy system should be first designed for **optimizing** its steady **State operation** and then the **transient considerations** including protection and control integrated to ensure system Stability, Safety, and a sustainable and resilient operation.



Cement Mill 1

Main Substation



operation with system stability and safety ensured.

AC PRIMARY LOAD

Annual Units	249.081	GWH/YR
Daily Units	682	MWH/DAY
Peak Value	37.308	MW
Working Days	330	DAYS
Standby Load	2	MW

MG - Feasibility Assessment

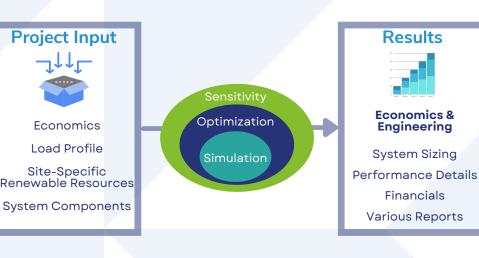
Cement Mill 2

The financial, resilience and sustainability impacts will be different for each Microgrid.

Coal Mill

Packing Plant

An initial feasibility assessment by a qualified team will uncover the benefits and challenges you can expect from your system.





SB ELECTRONICS ENGINEERING & CONTROL (PVT) LTD what gets measured, gets managed



Microgrid Operations

HOW DOES A MICROGRID WORK?

Intelligent controls and Management software are at the core of Microgrids. Many control systems can track the energy needs of the facility and determine how to supply the needed energy. These control systems consider and evaluate factors such as cost, fuel supply, weather, and energy load required to decide which Distributed Energy Resources DERs to utilize.

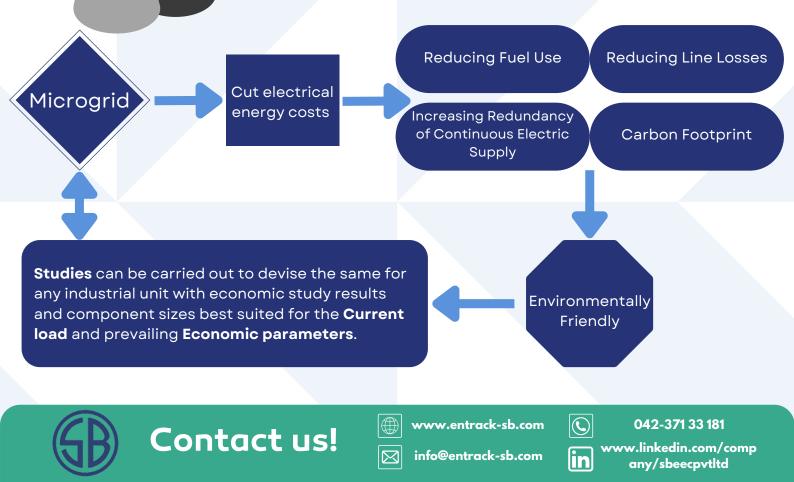


Microgrids can be made up of many different assets. These control systems are the key element to manage the dispatch of the **best asset** based on these factors.



Microgrids may also feature **energy storage systems** to capture the energy produced at one time for use later.

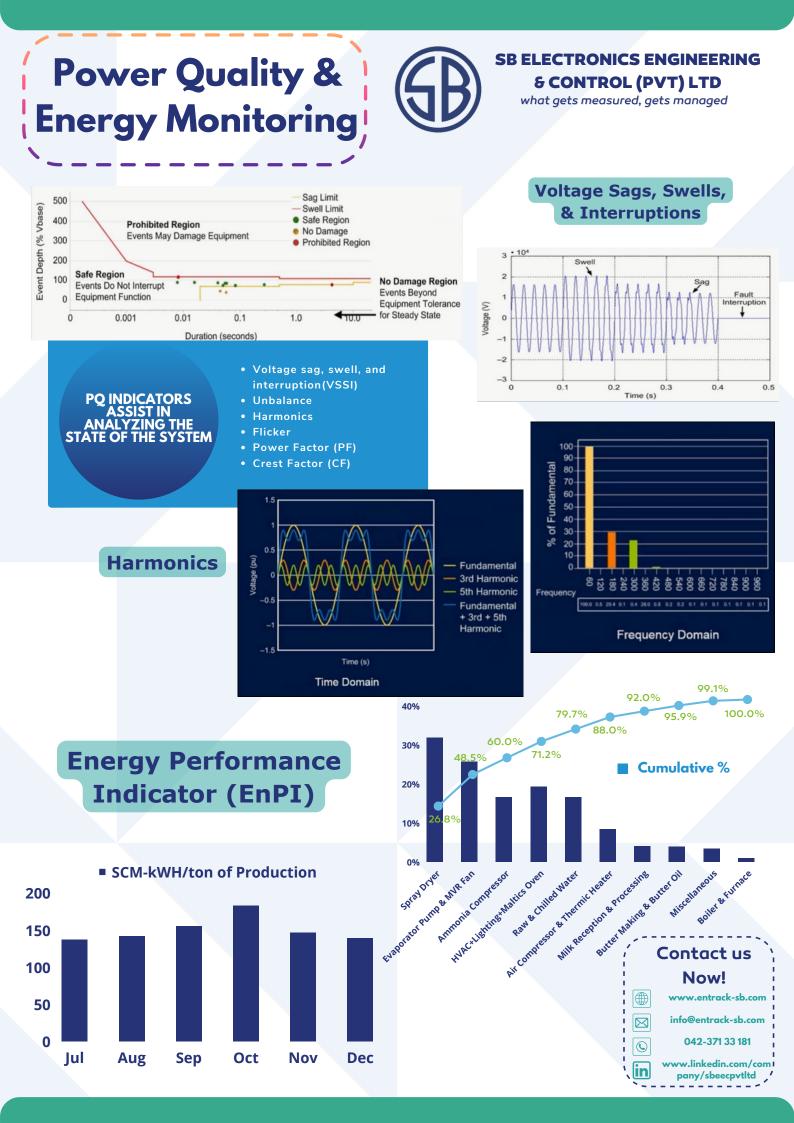
WHY WOULD AN INDUSTRY CHOOSE TO CONNECT TO MICROGRIDS?



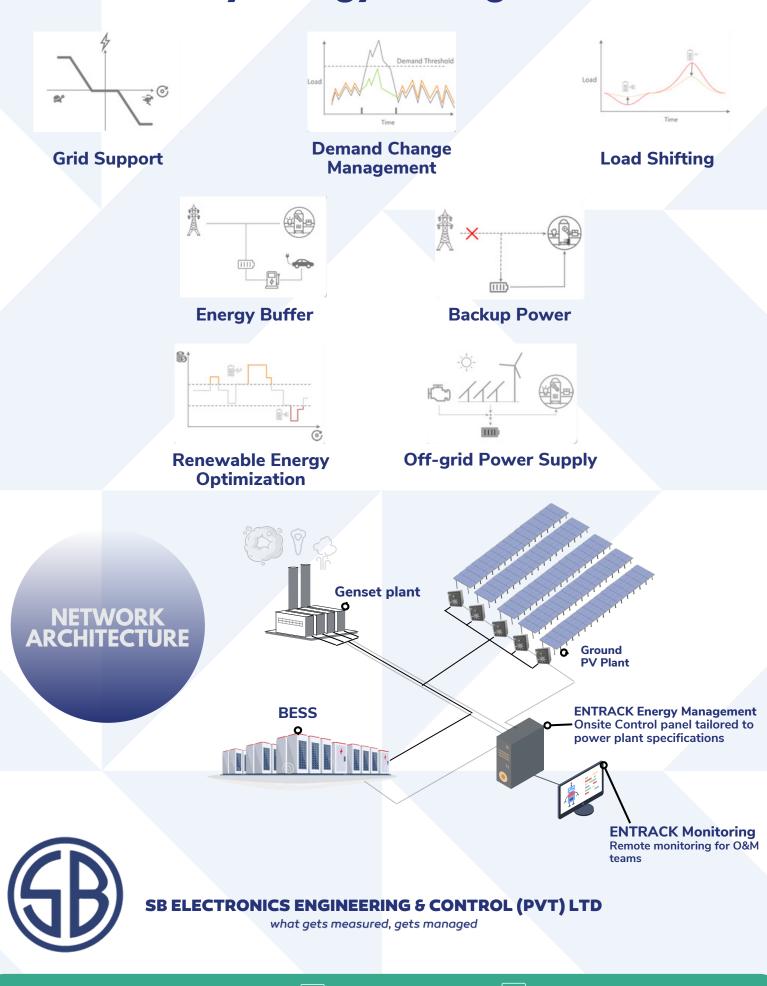
Microgrid - HOMPS

Hybrid Optimization of Multi Power Sources





Battery Energy Storage - BESS



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