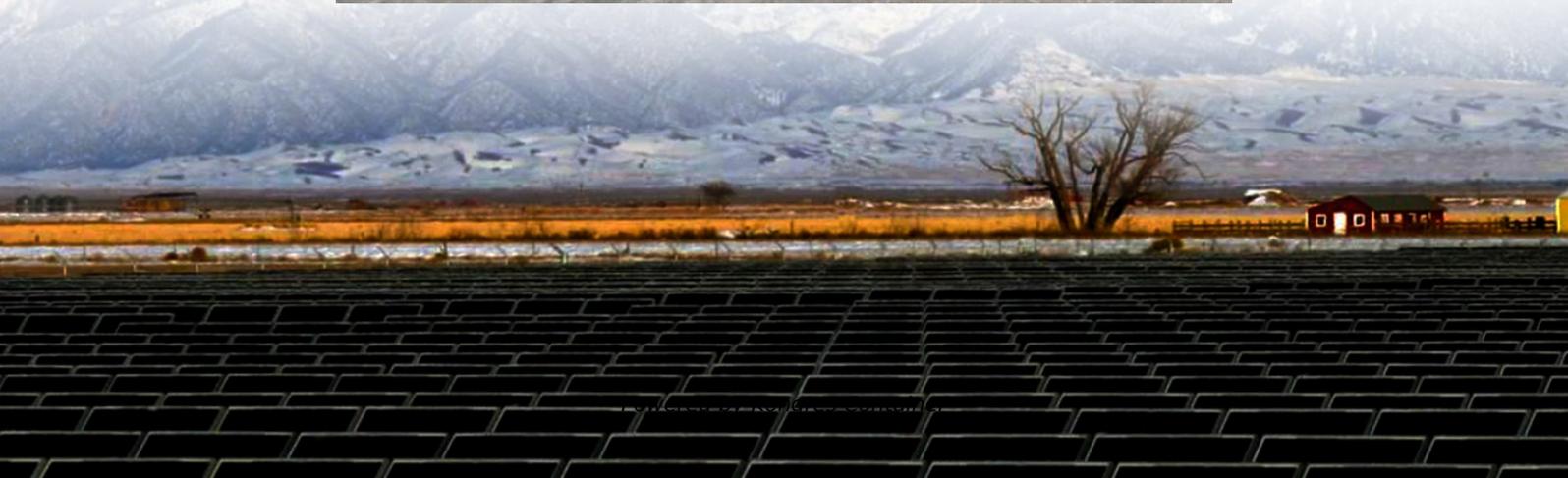


## Kongres Container

# Malta Communication Base Station solar Power Generation System Energy Storage



## Overview

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What is a green base station system?

On the other hand, considering the energy use, the concept of a green base station system is proposed, which uses renewable energy or hybrid power to provide energy for the base station system, allowing energy flow between base stations and smart grid , , , .

How does the Bess project affect PV generation in Malta?

The BESS project is also intended to mitigate weather-related challenges posed by renewable energy sources, which are reliant on climatic conditions and can therefore lead to significant dips in generation during moments of sudden cloud coverage severely affecting the PV generation in Malta.

What is interconnect Malta & how does it work?

First announced in June 2023, the project is being led by Interconnect Malta, an Energy Ministry agency responsible for energy infrastructure projects. Batteries will be charged using power fed into the national grid by photovoltaic panels during daytime hours and will then discharge power at nighttime.

What happens if a base station does not deploy photovoltaics?

When the base station operator does not invest in the deployment of photovoltaics, the cost comes from the investment in backup energy storage, operation and maintenance, and load power consumption. Energy storage does not participate in grid interaction, and there is no peak-shaving or valley-filling effect.

What is Malta's Energy & Climate Strategy?

This project is in alignment with Malta's energy and climate strategies, as it emphasises the integration of energy emanating from renewable sources and the mitigation of energy curtailment, thus enhancing energy security and

reducing carbon emissions.

Why is the Bess project important for Malta?

Interconnect Malta divisional manager Joseph Vassallo said the BESS project was an important milestone for Malta as it would contribute to modernise its distribution network with the installation of large power-electronic converters connected to Malta's 33kV system for energy conversion and flexibility services.

## Malta Communication Base Station solar Power Generation System

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