

## SolarTech Power Solutions

# Where is the power supply for the BESS outdoor base station in Ireland



## Overview

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What is the 'largest' battery energy storage facility in Ireland?

The Republic of Ireland has recently witnessed the official inauguration of the country's 'largest' grid-scale battery energy storage facility located at Poolbeg Energy Hub. The 75MW/ 150MWh BESS is aimed at enhancing the grid stability and deliver more renewable integration on Ireland's power network.

Does Bess require uninterrupted power?

Some BESS suppliers mandate uninterrupted power to maintain the operation of thermal management systems, ensuring battery temperatures remain within desired limits to minimize degradation. BESS fire safety standards, such as NFPA 855, outline minimum requirements for backup power for fire safety systems.

Do I need backup power for a Bess auxiliary load?

For certain projects, backup power must be provided for the BESS auxiliary load as required by the BESS supplier or fire codes. Some BESS suppliers mandate uninterrupted power to maintain the operation of thermal management systems, ensuring battery temperatures remain within desired limits to minimize degradation.

What are Bess auxiliary loads?

BESS auxiliary loads typically fall into the following three categories: ● Control and communication equipment, such as the battery management system and network switches; ● Thermal management systems, such as HVAC or chillers; ● Fire safety systems, such as fire alarms, control panels and gas ventilation systems (if present).

Where is ESB located?

It is located at Poolbeg Energy Hub, where ESB – around 95% owned by the Irish state with the remaining stake held by its employees – is planning to

deploy a combination of clean energy technologies, including offshore wind, hydrogen, and battery storage, over the coming decade.

Who is responsible for the electricity costs associated with Bess auxiliary loads?

Project owners are also responsible for the electricity costs associated with the BESS auxiliary load during operation. The electricity cost for auxiliary loads depends on the energy consumption (kWh) and the pricing structure set by independent system operators or utilities. For example:

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