



**NEXT-GEN
POWER**

YOUR ENERGY. YOUR FUTURE.

Sustainability in Action

Next-Gen Power

- **Established in 2013**
- Specialise in Solar PV & Battery Storage Solutions
- **Cater for the Domestic, Commercial & Agricultural Sectors**

Key Aims:

- **Tackle Fuel Poverty**
- **Reduce Carbon Footprint**
- **Provide an All-round Cost Saving System**

Partnerships



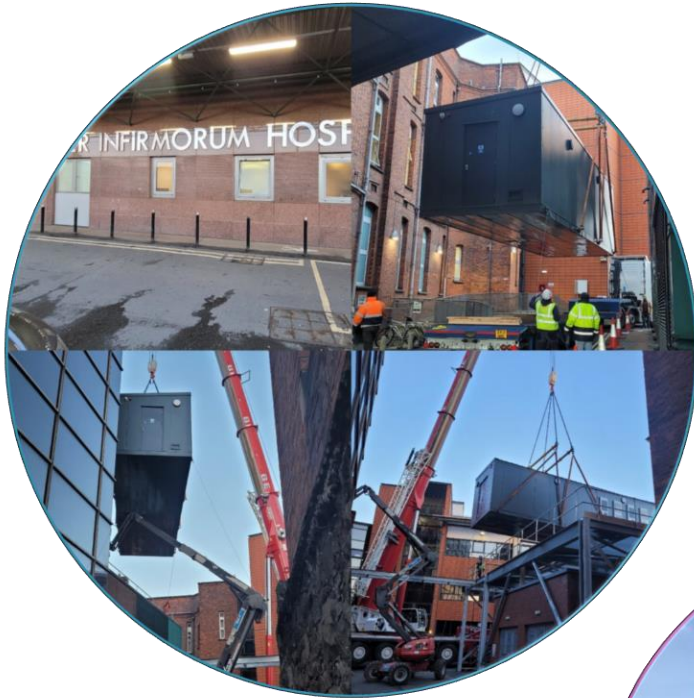
GivEnergy[®]
Approved Installer

Q CELLS **JA SOLAR**

Engineered in **Germany**



Our Projects



2.4MWh Battery
(Mater Hospital, Belfast)



12.00kW Solar PV Array
(CTS, Warrenpoint)



50.00kW Solar PV Array
(Granco, Newry)

Our Proposal

- Find & Assess the Customer Needs
- Create a Design / Estimated Generation Report Using PV*SOL
- Calculate ROI & Carbon Savings to Provide a Full Overview of the System being Supplied and what to Expect
- Price & Present to the Customer



Project Overview



Figure: Overview Image, 3D Design

PV System

3D, Grid-connected PV System

Climate Data	Newry, GBR (1996 - 2015)
Values source	Meteonorm 8.1(i)
PV Generator Output	11.83 kWp
PV Generator Surface	57.8 m ²
Number of PV Modules	26
Number of Inverters	1

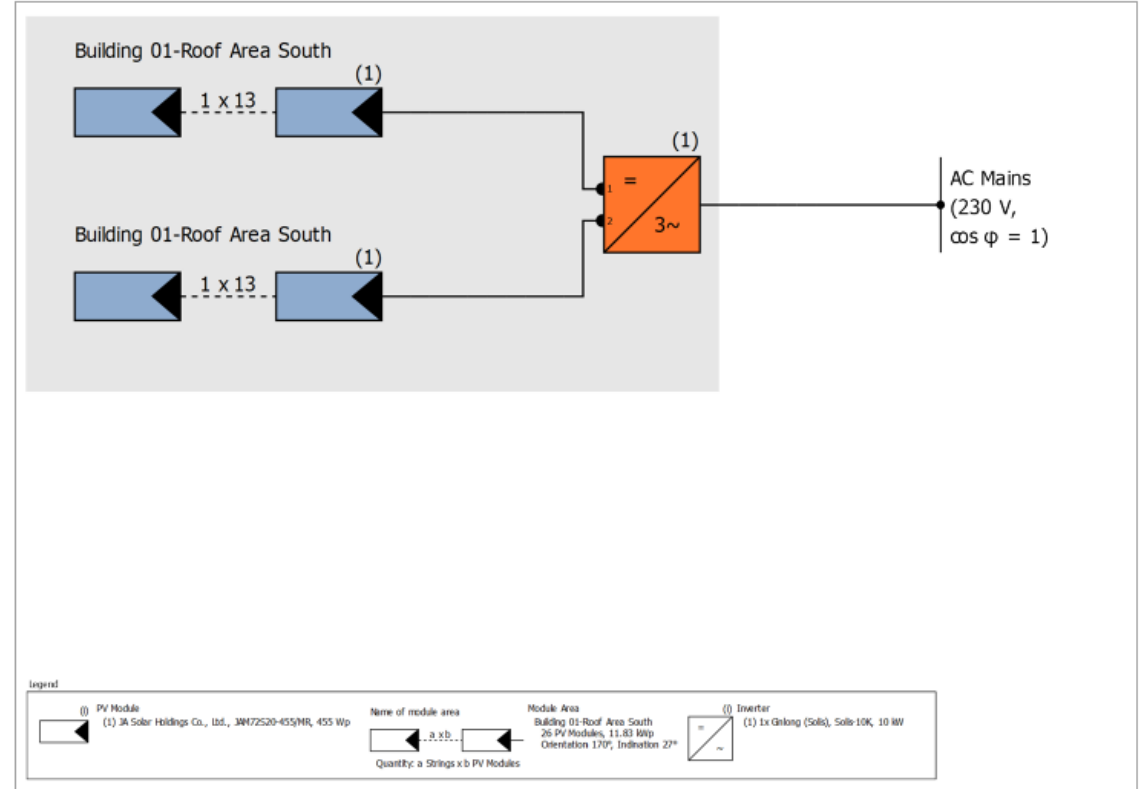


Figure: Schematic diagram

Production Forecast

Production Forecast

PV Generator Output	11.83 kWp
Spec. Annual Yield	957.32 kWh/kWp
Performance Ratio (PR)	90.74 %
Yield Reduction due to Shading	0.0 %/Year
Grid Feed-in	11,330 kWh/Year
Grid Feed-in in the first year (incl. module degradation)	11,330 kWh/Year
Standby Consumption (Inverter)	5 kWh/Year
CO ₂ Emissions avoided	5,323 kg / year