



CASE STUDY

**the food
WAREHOUSE**

Installed in

**3
Weeks**

Annual
reduction of

**25
Tonnes**
of CO₂ emissions

**117,866
kWh**

Annual Energy
Generation

**133.11
kWp**

Array output

Iceland Foods, one of the UK's leading food retailers with over 1,000 stores and more than 28,000 employees, continues to strengthen its commitment to sustainability through the adoption of renewable energy.

Dedicated to achieving net zero carbon emissions by 2040, a dull decade ahead of the Paris Agreement target, Iceland has again partnered with Shawton Energy to add another site to their solar portfolio. This site, based in Caerphilly, forms part of the company's wider renewable energy rollout across its UK estate.

THE PROCESS

Shawton Energy delivered a turnkey rooftop solar PV solution under a 25 year Power Purchase Agreement, allowing Iceland to benefit from renewable electricity generation without upfront investment.

The Merthyr Tydfil installation consists of 261 solar panels covering 580.4 m² of generation surface and providing an installed capacity of 133.11 kWp. The project was completed following a three week installation programme, with works managed to ensure minimal impact on daily operations.

Shawton Energy worked closely with Iceland's internal teams to ensure compliance with all safety standards and seamless system integration.

THE RESULT

The Caerphilly solar installation generates approximately 117,866 kWh of renewable electricity annually, saving 24,984 kg of CO₂ each year.

The system reduces exposure to energy price volatility while lowering operational emissions. As part of Iceland's ongoing solar rollout, the Caerphilly project demonstrates how renewable energy can be successfully integrated into live retail environments while supporting the company's Net Zero 2040 commitment.