

CASE STUDY

Krispy Kreme Powers Sustainability with GoodWe and Smart Commercial Solar

Summary

Krispy Kreme Australia is taking a significant step toward sustainability by powering its flagship production facility with renewable energy. Partnering with Smart Commercial Solar, the renowned doughnut brand has integrated a high-performance solar system featuring GoodWe's 100KW HT Series Inverter. This installation enables Krispy Kreme to reduce its carbon footprint, enhance energy efficiency, and ensure consistent production while cutting operational costs.

Challenge

Krispy Kreme Australia aimed to reduce its reliance on grid energy and lower operational costs while maintaining high production reliability. The company needed a solar solution seamlessly integrated with its Sydney production plant's energy-intensive operations, ensuring uninterrupted doughnut production. The system had to be tailored to handle peak production times while optimising solar energy use and balancing grid dependency. Additionally, the installation process required minimal disruption to the facility's workflow.

Solution

Smart Commercial Solar, a leading solar solutions provider, has designed and installed a robust rooftop solar system tailored to Krispy Kreme's operational demands and sustainability goals. The system integrates a GoodWe HT Series 100kW inverter with Trina Vertex 575W solar panels, ensuring efficient energy conversion and reliability. To optimize energy use, Smart Commercial Solar implemented a tailored system design that maximizes self-consumption and balances energy use during peak production hours. The installation was completed within 24 days with minimal disruption, ensuring business continuity.



Installation Details

Location: Sydney, Australia
System Owner: Krispy Kreme Australia
System Capacity: 100kW rooftop solar
Installation Date: November 2024
Inverter: 1 × GW100k-HT
Daily Generation: 1.1MWh
Self-Sufficiency: 80% energy independence

Benefits

- **Maximised Solar Utilisation & Cost Savings:** The GoodWe inverters ensure optimal energy conversion and efficiency, reducing reliance on grid power.
- **Reliable Energy for Production:** The system provides a stable and consistent power supply, maintaining Krispy Kreme's high production standards.
- **Scalability for Future Growth:** The installation is designed for expansion, with plans to increase solar capacity at additional locations.
- **Environmental Effect**
 - Estimated Annual Production:** Over 135MWh
 - Carbon Reduction:** 94.5 tonnes of CO₂ avoided each year

On-Site Feedback

Alex Salnikov, Head of Engineering and Facilities at Krispy Kreme ANZ, emphasised the company's commitment to sustainability:

“ The partnership with Smart Commercial Solar has enabled us to take a meaningful step toward a more sustainable future. This project is more than a cost-saving initiative; it's about embedding sustainability into every doughnut we produce. ”

Shaun Wells, Senior Project Manager at Smart Commercial Solar, highlighted the efficiency of the installation:

“ From initial sale to project completion in under 24 days, we transformed a challenging suspended insulated panel installation into a seamless, expertly engineered solar solution. ”

For more information on GoodWe's commercial solar solutions, visit: www.goodwe.com.au

For more information on Smart Commercial Solar, visit: www.smartcommercialsolar.com.au/

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