FOURTH PARTNER ENERGY

KRITI INDUSTRIES' COMMITMENT TO ENERGY TRANSITION

A Case Study of Fourth Partner Energy's **2.5 MWp Rooftop Solar** System at Kriti's factory in Indore, Madhya Pradesh.

Rooftop Solar Solutions For
Kriti's Madhya Pradesh Facility

Kriti Industries is a leading manufacturer of piping products and drip irrigation solutions in India. Incorporated in 1983, Kriti Industries became listed on the BSE in 1994, and today manufactures products across 33 extrusion lines for PVC pipes, 14 extrusion lines for HDPE & drip irrigation and 27 injection moulding machines across its state-of-the-art facilities.

Kriti Industries joined hands with Fourth Partner Energy in 2021 to leverage Solar Energy solutions for its manufacturing facility at Indore in Madhya Pradesh. FPEL in turn delivered a 2.48 MWp Rooftop Solar system for this unit which manufactures soya flakes, industrial pipes & agriculture pipe. Through this partnership, Kriti Industries is not only able to reduce its Carbon footprint, but also save nearly 60% on electricity tariffs annually.

Kriti Industries'
Commitment to Sustainability

Kriti Industries prioritises ESG at the core of its business, On the environment front, the company is spearheading Climate Action through energy transition and water conservation strategies. Its workforce compiles of a healthy mix of experienced professionals and ambitious youth that delivers on community upliftment, circular supply chain and aligning with Sustainable Development Goals.

Kriti Industries (India) Limited is dedicated to sustainability, emphasizing responsible resource consumption and reducing its carbon footprint.

Kriti Industries'
Eye on Energy Transition

Kriti Industries has taken significant steps to minimize its energy and greenhouse gas emission intensity, while transitioning to cleaner processes and fuels.

The company currently sources nearly 27% of its electricity consumption of nearly 30 million units through renewables and is looking to further increase this component. Apart from the 2.5 MWp Rooftop Solar unit at Indore, Kriti Industries also procures 2.1 MWp Solar Power through the Open Access route, which is likely to increase to 4.5 MWp in-line with the company's expansion plans.

Through these initiatives, Kriti Industries exemplifies its dedication to environmental stewardship, setting a precedent for sustainable practices within the industry and contributing to a greener future.

Key Highlights of FPEL's
2.5 MWp Rooftop Solar System for Kriti

Project Capacity **2,488 kWp**	Project Location **Indore, Madhya Pradesh**	Type of System **Rooftop Solar Installation**	Annual Generation **3.6 million units**
CoD **31st Mar 2023**	Type of Roof **Tin Shed**	Cost Savings per unit **58%**	Solar in **Energy Mix: 9%**

> *In the convergence of environment, social responsibility, and governance, lies the blueprint for sustainable success - a testament to the power of integrity, empathy, and strategic foresight in shaping a resilient future*

Annual
Environment Impact

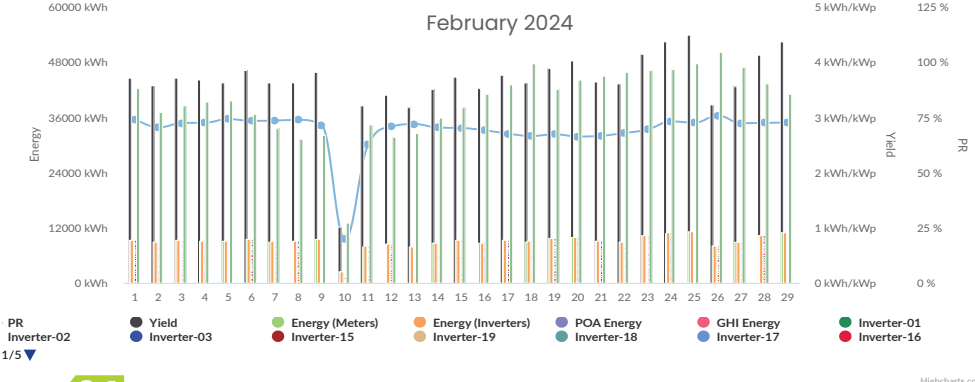
3,417 Tons
of reduced Carbon Offset

1,639 Kgs
of reduction in Coal

80,20,516 Litres
of Water Conservation

Equivalent to
Planting **1,56,961 Trees**

Kriti Industries'
Solar Power Generation Graph



FPEL's Customised Solar Energy Solutions To Kriti Industries

Regulatory Approvals

Navigating the complex regulatory landscape for obtaining necessary approvals and permits proved to be a significant challenge during the project implementation. To overcome this hurdle, FPEL adopted a proactive approach to regulatory compliance. Close collaboration with local authorities and meticulous documentation ensured that all regulatory requirements were met in a timely manner. By engaging with regulatory bodies early in the process and adhering to stringent compliance standards, FPEL streamlined the approval process, minimizing delays and enabling the project to progress smoothly.

Plant Efficiency and Value Engineering

Ensuring optimal plant efficiency while managing costs presented a critical challenge for the project. To address this, FPEL implemented value engineering techniques to maximize performance without compromising on quality. By optimizing the layout and integrating advanced technology into the solar installation, the project achieved enhanced efficiency and output. Innovative design solutions and the strategic selection of equipment helped minimize operational costs while maximizing the generation of solar energy, ensuring a sustainable and cost-effective solution for Kriti Industries.

Strategic Procurement

Procuring high-quality solar panels and components at competitive prices posed a significant challenge for the project's success. To tackle this, FPEL leveraged strategic procurement practices and established partnerships with reliable suppliers. Thorough market analysis and negotiation strategies were employed to secure favourable pricing and terms. By leveraging existing supplier relationships and adopting bulk procurement strategies, FPEL optimized costs without compromising on the quality or reliability of the solar equipment. This approach ensured that the project remained financially viable while meeting the desired performance standards for Kriti Industries.

Know More about
Fourth Partner Energy's RE Solutions

1800 1203 41345

marketing@fourthpartner.co

www.fourthpartner.co