



METRO KNITTING's

COMMITMENT TO A SUSTAINABLE FUTURE

Case Study | ON FOURTH PARTNER ENERGY's SOLAR SOLUTIONS
FOR BANGLADESH's LEADING TEXTILE MANUFACTURER









Metro Knitting & Dyeing Mills is a leading textile manufacturer in Bangladesh, with a legacy spanning several decades. From a small knitwear factory, the company has grown into a powerhouse in the industry, with a presence in multiple countries around the world. With state-of-the-art facilities and a team of skilled professionals, Metro Knitting & Dyeing Mills is committed to delivering high-quality products to its customers.

METRO KNITTING's 250 kWp ROOFTOP SOLAR SYSTEM

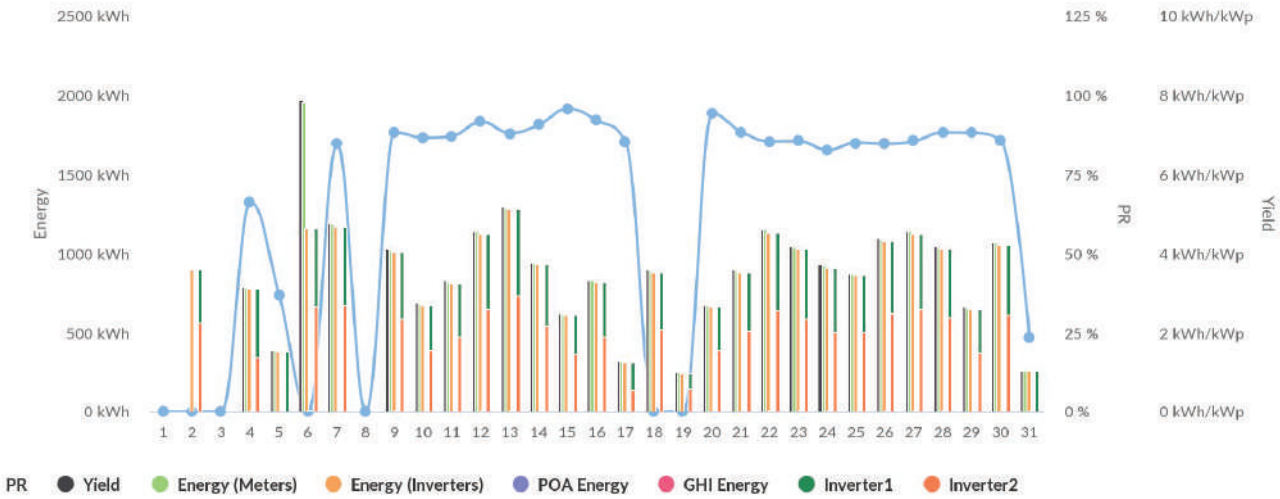
Metro's manufacturing facility in Dhaka was heavily reliant on grid-supplied electricity to power its operations: which the Client found both costly and unreliable. To address this issue, the Client decided to invest in a solar rooftop system that has the capacity to produce around 300,000 kWh of clean energy every year, which is equivalent to more than 20% of the company's total energy requirements.



Highlights of the Project

 <p>Project Capacity 248.52 kWp</p>	 <p>Project Location Dhaka</p>	 <p>Type of System Rooftop Solar Installation</p>	 <p>Annual Generation 319,000 kWh</p>
 <p>CoD 5-Sep-2022</p>	 <p>Type of Roof RCC</p>	 <p>Area 1900 Sq.Mt</p>	 <p>Percentage of RE in Energy Mix: 20%</p>

ENERGY GENERATION GRAPH



Highcharts.com



ANNUAL COST SAVINGS **ON ELECTRICITY**
 ~ **BDT 4.40 Lakhs** / ~ **INR 3.39 Lakhs**

ANALYSIS OF THE COST & ENVIRONMENTAL BENEFITS TO THE CLIENT



~ **341 tons**
of reduced
CO2 emissions



~ **168 tons**
of other GHG
emissions reduced



~ **8,01,149 litres**
of Water
Conservation



equivalent
to planting
~ **15,678 Trees**



KEY CHALLENGES & SOLUTIONS

1 | **Challenge:** The local EPC contractors lacked knowledge about international best practices for installation and project commissioning.

Solution: To address this challenge, we conducted immersive training and development sessions for the on-ground teams. Our in-house project experts led this training, which aimed to upskill the local teams and equip them with the necessary knowledge about quality control, safety, and attention to processes.

Additionally, 4PEL deployed select Indian employees to Bangladesh temporarily to guide the local team and ensure that the project was executed to the highest standards.

As a result of these efforts, the local EPC vendors were able to complete the project well ahead of the client's deadline. The training they received also equipped them with valuable life skills that they can apply to future projects.

2 | **Challenge:** The amount of water to be consumed for servicing and maintaining the asset was a big hurdle, owing to the scarcity in the region.

Solution: Solution: 4PEL's Asset Management team specializes in methods of dry cleaning and robotic cleaning, wherein the water used to clean solar panels is significantly lower than the traditional method. This eco-friendly approach for cleaning of solar PVs has been adopted by local O&M contractors in Bangladesh and continues to be practiced to minimize water consumption and wastage.

FOURTH PARTNER ENERGY'S BANGLADESH OFFERINGS

Ready to make the **switch to renewable** energy for your **business?**

Our team of experts will work with you to customise solar energy solutions for your business – our innovative financing options enables the Client to choose from Capex and Opex models, while we do all the design, construction, commissioning, and maintenance of your Solar asset. Our solutions will help you company save between 30-60% on power costs, while shrinking your Carbon emissions.



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