

Best Practice II:

1. Title of the Practice

Rooftop Solar Panel

2. Objectives of the Practice

To produce solar power, a natural source of energy, thereby reducing the electricity expenses of the institution.

3. The Context

Conventional electricity, generated through the burning of coal, depletes the reserve of fossil fuels. Solar power, a renewable form of energy, can supplement the energy requirements in such a context.

4. The Practice

20 kWp Rooftop Solar PV Power Plant, sanctioned by WEST BENGAL RENEWABLE ENERGY DEVELOPMENT AGENCY (WBREDA), KOLKATA, an Autonomous Organisation under Department of Power & NES, Govt. of West Bengal, started producing electricity in the grid from April, 2021, thereby augmenting the overall energy scenario of the college.

5. Evidence of Success

CALCUTTA ELECTRIC SUPPLY CORPORATION LIMITED (CESC Ltd.), the private concern that provides conventional power in the city, adjusted the solar energy produced (5190 units in 2021-22) against monthly electric bills, thus reducing the annual expenditure of the college.

Month & Year	Solar energy produce (Units)
June 2021	942
July 2021	486
August 2021	168
September 2021	142
October 2021	686
November 2021	580
December 2021	312
January 2022	892
February 2022	420
March 2022	296
April 2022	70
May 2022	196

6. Problems Encountered and Resources Required

Generation of solar power gets hampered during inclement weather. As a result, the energy units produced in the rainy season and winter drops significantly.



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Kolkata
West Bengal
India



26°C

79°F

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Rooftop solar power panels



Wheeling to the power grid