Trinasolar
Smart Energy Together

CASE STUDY

INDIA HABITAT CENTRE, NEW DELHI, INDIA

OVERVIEW:

India Habitat Centre in New Delhi was facing a major problem of overloading at peak hours. The power bills were mounting. This photovoltaic (PV) project has become a showcase in environmentally-friendly buildings in Delhi after attaining major savings.

SIZE: 250 KWp
SYSTEM TYPE:
Rooftop

COMMERCIAL
OPERATION DATE:
April, 2015

DEVELOPER:
India Habitat
Centre

MODULES:
809 Trina Solar
Tallmax
TSM-PC14

CO_2 SAVINGS:
More than 100
tons/year

SITUATION

India Habitat Centre (IHC) is a unique building spread across 9 acres in the heart of India's capital, New Delhi. IHC, which combines work, commercial and social spaces was designed by the famous architect Joseph Allen Stein. This architectural marvel which uses traditional building materials and techniques provides multiple restaurants, library, museum, accommodation, banking and entertainment apart from housing several prestigious offices. IHC, which was constructed by HUDCO, a Govt. India Corporation has made a significant contribution to Delhi and is often referred to as 'a city within a city.' India Habitat Centre has helped increase awareness of environmental-friendly buildings operating with renewable energy.

EXECUTION

IHC has a sanctioned load of 6 MW and was exploring the use of solar energy as a way to reduce costs and minimize exposure to fluctuation in fuel prices. Due to over loading at peak hours the client was evaluating solar solutions to support the excess load/demand.

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PRODUCT SOLUTION

Trina Solar executed a 250 KWp rooftop Photo Voltic (PV) solution using the 809 Trina Solar Tallmax TSMPC-14 module to address the client's concerns and provide a significant reduction in their electricity bills. The project was completed in April 2015 and the construction took two months.

RESULTS

India Habitat Centre currently buys power at a rate which is far lower (INR 5-6/KWh) than the past. Overall, the client saves around INR 1.75 million annually. The Trina PV project has also resulted in savings of over 100 tons of CO_2 emissions per year.