

Bifacial modules: adoption prospects in India

July 2021

Contents

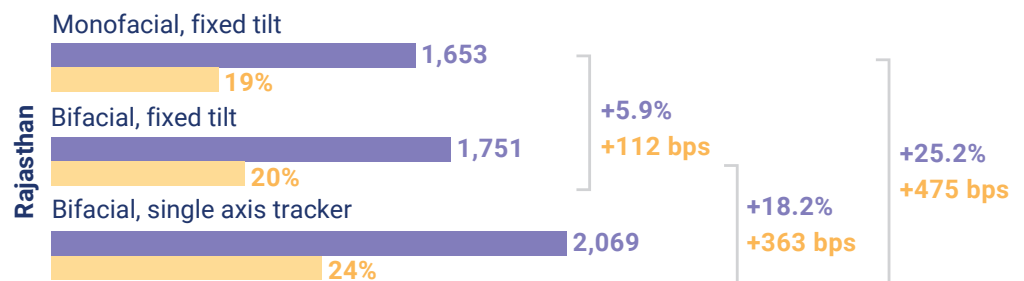
- 1 Introduction | 3
- 2 Bifacial technologies | 5
- 3 Project design and cost | 6
- 4 LCOE impact | 10
- 5 Adoption prospects | 12

Executive summary

Improvement in bifacial technology, falling cost premium over monofacial modules and growing industry experience are finally leading to large scale adoption of bifacial modules in India. LCOE gain for bifacial modules over monofacial modules with fixed tilt structures and single axis trackers is estimated at about 1% and 6% respectively.

Based on actual field studies, bifacial modules with single axis trackers can deliver CUF gain of 475-490 basis points and specific yield gain of 25-27% over monofacial modules in fixed-tilt mode.

Figure: P75 CUF and yield estimates per MWp



Yield CUF

Source: BRIDGE TO INDIA research

This report covers bifacial module costs, various technologies, impact on various operating and financial parameters for solar projects and growth prospects.

REPORT SUBSCRIPTION

You can purchase the full report online or buy an annual subscription by writing to us at market.research@bridgetoindia.com

Authors

Mridul Chadha

Vinay Rustagi

Terms of use

This report is for use only by authorised, paying subscribers of BRIDGE TO INDIA ENERGY PRIVATE LIMITED. Unauthorised use, reproduction, production, distribution and transmission of this report is expressly not permitted.

BRIDGE TO INDIA hereby grants the user a personal, non-exclusive, non-transferable license to use the report pursuant to the terms and conditions of this agreement. The user cannot engage in any unauthorized use, reproduction, distribution, publication or electronic transmission of this report or the information/forecasts therein without the express written permission of BRIDGE TO INDIA.

The information contained in this report is of a general nature and is not intended to address the requirements of any particular individual or entity. BRIDGE TO INDIA aims to provide accurate and up-to-date information, but is not legally liable for accuracy or completeness of such information.

This report is owned exclusively by BRIDGE TO INDIA and is protected by Indian copyright, international copyright and intellectual property laws.

© 2021 BRIDGE TO INDIA Energy Private Limited

BRIDGE TO INDIA Energy Private Limited
C 8/5, DLF Phase I Gurgaon 122001 India
www.bridgetoindia.com

For all research, subscription and marketing queries, please write to market.research@bridgetoindia.com

Follow us on:



KNOWLEDGE IS POWER

Subscribe to our award winning research

Subscriptions



India Renewable Weekly

India Solar Compass

India Renewable
Market Brief

India C&I Renewable
Brief

Analyst time

Databases

Projects

Tenders

Policies

Equipment and EPC
prices

Power tariffs

Other reports

India Renewable Outlook

India Solar Rooftop
Market

India Solar Rooftop
Market Analytics

India Solar Open
Access Market

Estimating cost of
capital for Indian
solar projects