

Federal Ministry for Economic Affairs and Energy



Outlook activities for German SMEs integration in Bangladesh solar PV market

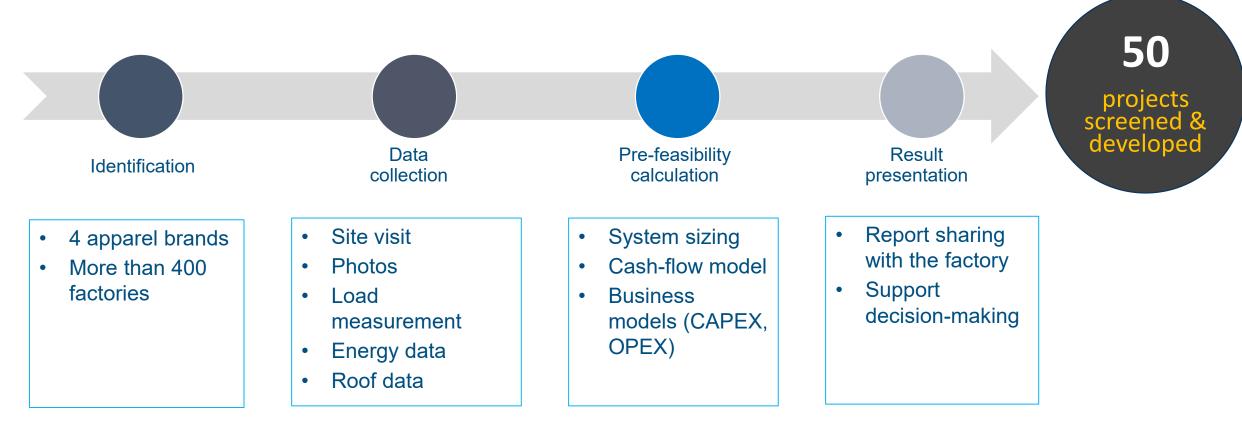
Shuvajit Mandal

Project Development Programme (PDP)

Facilitator



1. C&I Rooftop solar projects – Development phase

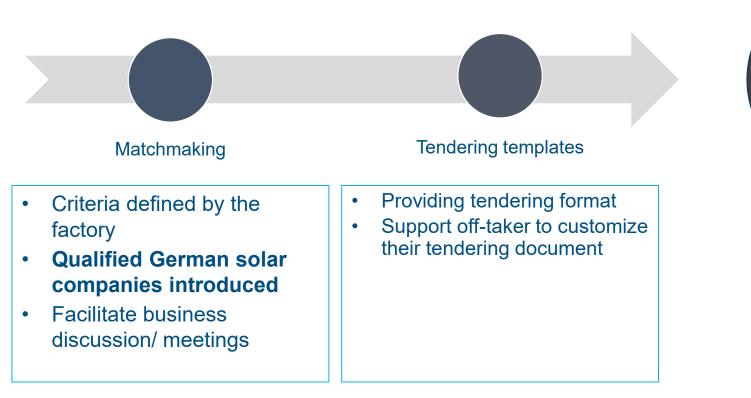








1. C&I Rooftop solar projects – Implementation phase











2. Business development – Market insight and local regulations

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Deutsche Gesellschaft

Zusammenarbeit (GIZ) GmbH

für Internationale

MITTELSTAND

NERGY SOLUTIONS

MADE IN GERMAN)

GLOBAL

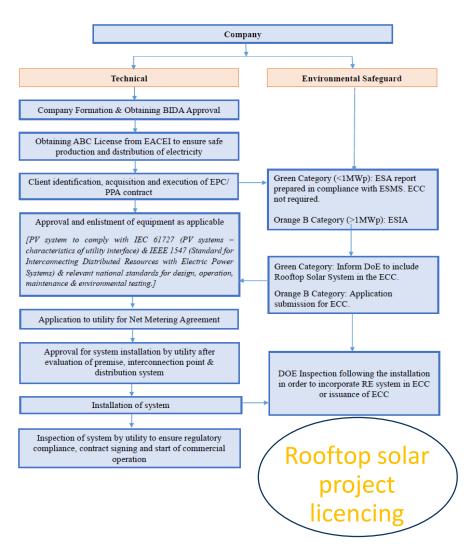


Federal Ministry

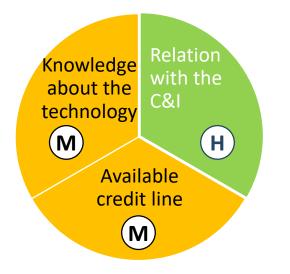
and Energy

for Economic Affairs





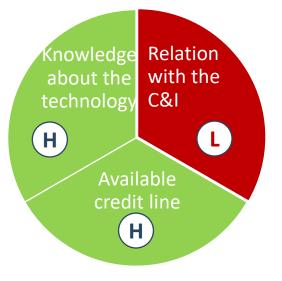
2. Business development – Local financing insight via study "Investment opportunities on rooftop solar for the textile sector in Asia" (2021)



Commercial banks

- Existing sustainable financing credit lines
- Strong relationship with C&I sector
- Limited understanding on PV technology.





Other institutes, credit lines (e.g. IDCOL)

- Good knowledge on PV technology
- Mostly available for large scale solar projects
- Strict technical requirements
- Complexed application process
- Off-takers doesn't have existing relations

2. Business development – Contacts and Partnership with local enterprises





Match-making

- Business trip to Bangladesh (26. -30. Sep 2021) \rightarrow Register until 13.08!
- B2B meetings during business trip
- Contacts upon request (continuous support)





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3. Market development – Know-how of German technology and services



- German Training Week Project Development (2020)
 → positive market response → high demand!
- German Solar Training Week Nov 2021
- Training series in cooperation with Bangladesh Solar & Renewable Energy Association (2021-2022)

Facilitate









Proposed topics for training series:

- PV System design and engineering
- PV system sizing and dimensioning
- Energy storage coupled with PV
- Challenges and Optimization of hybrid PV systems
- Installation and mounting structure
- Simulation software & Solar irradiation measurement
- Owner's engineering
- Potential technical risks & safety procedures
- Fundamentals of financial modelling for C&I rooftop
 PV projects
- \rightarrow To be conducted by PDP and German companies

Value added opportunities for German SMEs



Disseminate best practices and know-how transfer

- Energy system architecture is complex in Bangladesh.
- Massive gap in PV technology coupled with innovative engineering design → key to success
- Awareness building on the importance of good quality system and design (banks, developers, regulators)

Business partnership



Financing options and available business models

- Rapid market growth
- High demand for international solution providers
- Available financing options are limited.
- Introduce innovative business models
- No regulatory restriction on OPEX model
- Local developers don't have financial strength to offer OPEX model.
- New avenue for financing options. Mobilising available capital from abroad







Thank you!

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