

Capital Markets Climate Initiative: Case Study on India Solar

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San Giorgio Group Inaugural Meeting 17 October 2011 Venice

Overview



Background on CMCI

A closer look at India solar

Next steps

CMCI aims to support the scaling up of private finance to deliver low carbon initiatives in emerging economies



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Constraints on green growth in emerging countries

- Very little private financing and capital currently supporting initiatives; scale is small and not sustained
- Policy uncertainty discourages private capital
- Lack of dialogue/understanding between public and private institutions

Capital Markets Climate Initiative

What will it achieve?

- CMCI provides a platform for collaboration between governments and the private sector to help identify opportunities to mobilise/scale significant private and public capital into low carbon investments.
- CMCI will support governments in building market confidence in these sectors to attract investment today and in the future.

How will it operate?

- CMCI brings together investment banks, insurance companies, rating agencies and public institutions to engage in dialogue and share experiences with a view to scaling up investment in low carbon growth in developing countries.
- Working Group 1 is developing a knowledge base to help governments identify best practice approaches for mobilising private capital; Working Group 2 is actively testing models with partner governments.
- CMCI is not a legal entity but a grouping of parties with a shared interest and willingness to collaborate and share results.

Working Group 2 activities are being carried out in two stages

Stage 1

CMCI members

Partner governments

+

Local stakeholders

Identification of key barriers

+

Identification of potential solutions

Stage 2

International climate finance



International private capital



Local public and private finance

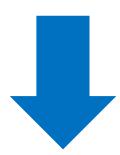


Facilitation of flow of capital to developing country initiatives

A clear set of goals and outputs to focus CMCl's activities

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Outputs

- Identify policies, regulations, public finance mechanisms, and public-private partnership models that leverage private finance (Working Group 1)
- Support developing countries in building low-carbon growth strategies that can attract local and international private sector finance (e.g., NAMA development in Kenya)
- Facilitate the convening of national and international stakeholders that can take the financing of specific projects to completion and help create sustained markets in lowcarbon goods and services (e.g., India solar activities)
- 2 4 low-carbon case studies that identify investment needs and recommend new financing solutions
- A list of opportunities for the UK and other donor governments to provide fast-start climate finance to leverage private capital

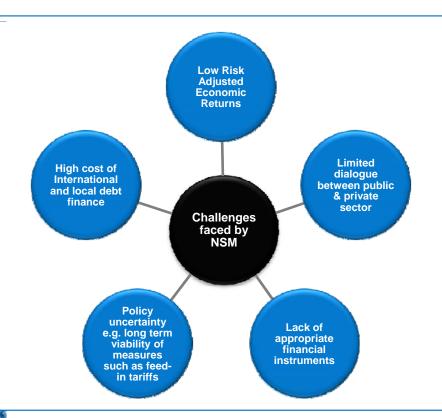
CMCIs work in India

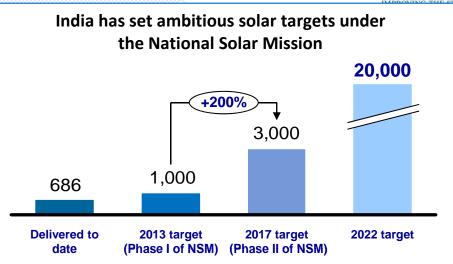


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Why is CMCI interested in solar in India?

- The market opportunity is big: \$35bn investment market by 2020¹
- Significant private sector interest in the first phase of the National Solar mission
- Ambitious government plans for next stage of the National Solar Mission
- BUT, a number of important challenges remain





What are the challenges that need to be overcome?

The World Economic Forum 2011 Critical Mass Initiative identified that private investment in Indian Solar is held back by several factors:

- Lack of appropriate financial instruments, including guarantee mechanisms to underwrite perceived country and project risks
- High cost of finance: limited debt tenor, limited access to non-recourse debt, sub-scale project investment size
- Structure of PPAs (not assignable to lenders, a perceived risk of default)

India work moving from situation analysis to solution development



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July - August

September - October

October - November

COP 17 and beyond

Desk research and interviews

- In- country engagement
- Iteration and case study write up

Dissemination

- Interview private sector
 stakeholders to understand
 progress in the Indian market
 and identify remaining
 barriers to deal flow
- Clarify key barriers
- Identify financial mechanisms and policy needs

- Engage stakeholders, ministries and institutions
- Conduct workshops to identify financial solutions and policy measures
- Write up solutions and stimulate further dialogue between private and public players

- Test and refine potential solutions
- With Government support, explore opportunities for UK ICF funding
- Development of case study for discussion at the Forum India Economic Summit, COP17 and Davos
- Communicate key actions and policy measures and facilitate discussion internationally
- Pursue top priority solutions in 2012

SOLUTIONS

- Expanding/enhancing existing debt markets
 - Expanding ADB Partial Credit Guarantee
 - Developing new solar park financing concepts

 Linking with other donors, banks and investors to address enabling environment issues





In-country engagement verified barriers...



September workshops

Jodhpur



- Focus: How to mobilize private capital to scale-up solar and implications for policy makers
- Target audience: Developers, policy makers, donors
- Key participants:
 MNRE, Ministry of
 Power, Rajasthan
 State, Suzlon, Azure,
 OPIC, ADB

- Focus: The role of debt markets & the potential for solar park financing concepts
- Target audience: Indian Financiers, investment banks and sector experts
- Key participants:

 Deutsche Bank, CRISIL
 L&T Infrastructure,
 SIDBI, IDFC, ADB,
 Clinton Climate

 Initiative

Barriers

Financial

- Project economics and debt capacity
- Availability of financing instruments
- Lack of non-recourse financing
- Sector_limits_and_bank_market appetite

Policy

- PPA issues (tariff changes, noninflation adjustment)
- Project size and pipeline, timelines
- Policing of RPO obligations/viability of RECs

Market

- EPC¹ availability
- Land and water access
- Evacuation infrastructure
- Low experience with technology

...and identified potential solutions



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Barriers

Financial - securitisation

Financial – debt providers

Policy

Solution areas

- Tap new pools of debt capital through securitisation of project loan portfolios & Solar Park financing vehicle
- 2. Build regulatory capacity to scale and underpin the REC market
- 3. Backstop NSM and/or State solar PPAs
- 4. Incentivise international lenders to participate in solar loan refinancing
- Support Indian Government in __collecting solar project and __ resource statistics
- 6. Build capacity/comfort of local lenders
- 7. Identify opportunities for regular information exchange between financiers/government

Role of CMCI

- 1. Create solar bond working group to develop securitisation / Solar Park finance vehicles
- 2. Identify conditions necessary for bankable REC market in India, share lessons from other regions
- 3. Identify and develop appropriate PPA Breach of Contract insurance policy
- 4. Determine conditions for international lenders to participate
- 5. ID gaps in performance data needed by lenders
- 6. Provide CMCI expertise to expand ADB efforts
- 7. Lend expertise to shape public/private information exchange

Opportunity for donor funding

- 1. Provide partial risk guarantee to credit enhance capital markets instrument(s), fund Solar Park financing vehicle and rating agency work
- 2. Provide partial guarantee to underpin REC instrument(s)
- 3. Subsidize PPA Breach of Contract insurance policy
- 4. Subsidize cost of foreign exchange hedging
- 5. Fund technical assistance for data aggregation
- 6. Fund expanded capacity building for banks
- 7. Fund seminars / conferences

Next steps and sharing the work with international stakeholders



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- October- November: Test solutions and finalize recommendations through:
 - Additional workshops in Kenya and at the Forum's India Economic Summit
 - Engagement of CMCI members to provide more detailed assistance for specific options
 - Coordination with other donors to address policy issues
- December: Finalize case studies and deliver to COP17
- 2012: Begin to implement top priority solutions

India Economic Summit WØRLD ECONOMIC FORUM







Nov 12 2011 - Nov 28 - Dec 9 ------2011

Jan 25-29 2011

June **2012**