



WORLD BANK GROUP

India Grid Connected Rooftop Solar Program



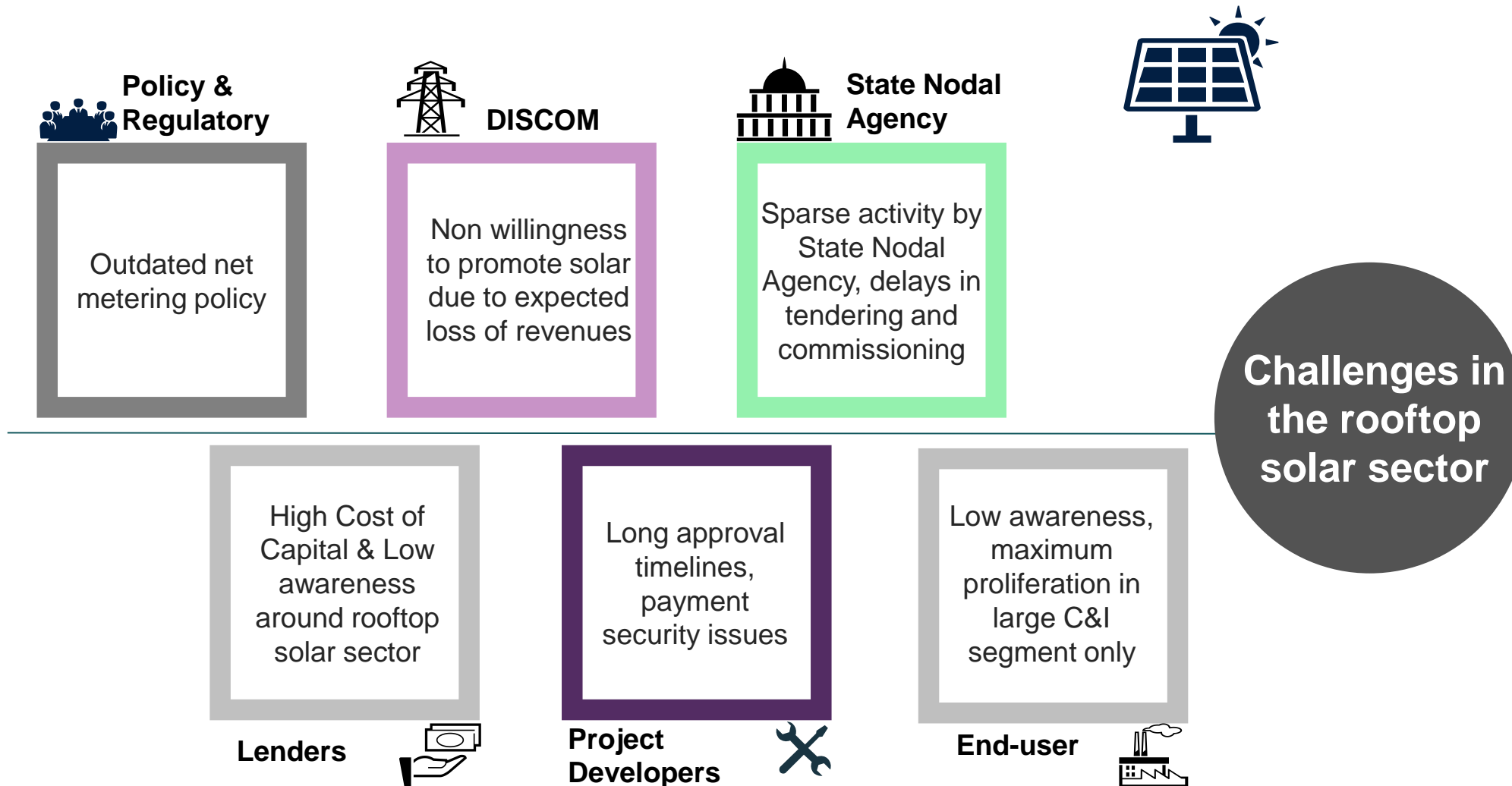
**Presentation by the Energy and
Extractives Global Practice, World Bank**

Myths about Rooftop Solar

- **Solar park vs Solar rooftop**
- **7 Rs Vs 4 Rs**
- **Financing Vs Awareness**
- **Transaction cost and time**
- **Germany, California and India**



High cost of capital and lack of enabling environment: Key Challenges



Grid-Connected Rooftop Solar PV Project (GRPV)

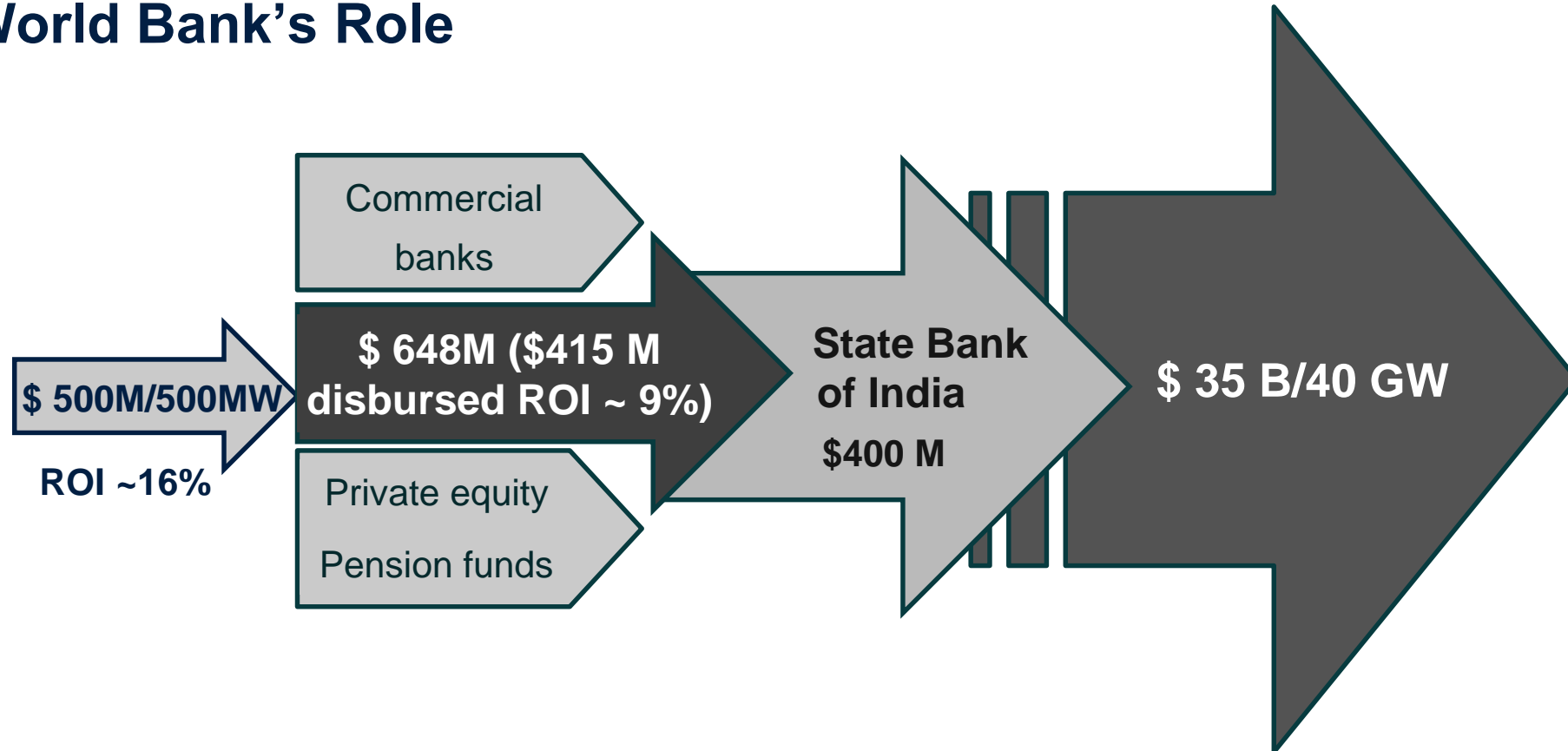
The Project Outline

- **Volume:** USD 648 million
- **Target:** 400 MW grid connected rooftop PV projects installed
- **WB Product:** Program-for-Results
- **Duration:** 2016-2021 (5 years)
- **Financial intermediation** through State Bank of India 22,000 branches



Maximizing Finance for Development

The World Bank's Role



2010-16

2016

WB Program for Results financing to SBI

2019

\$ 4 B mobilized
5 GW

2021

2022



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SUPRABHA Rooftop Solar Technical Assistance Program



Implemented in cooperation with Ministry of New and Renewable Energy, Government of India

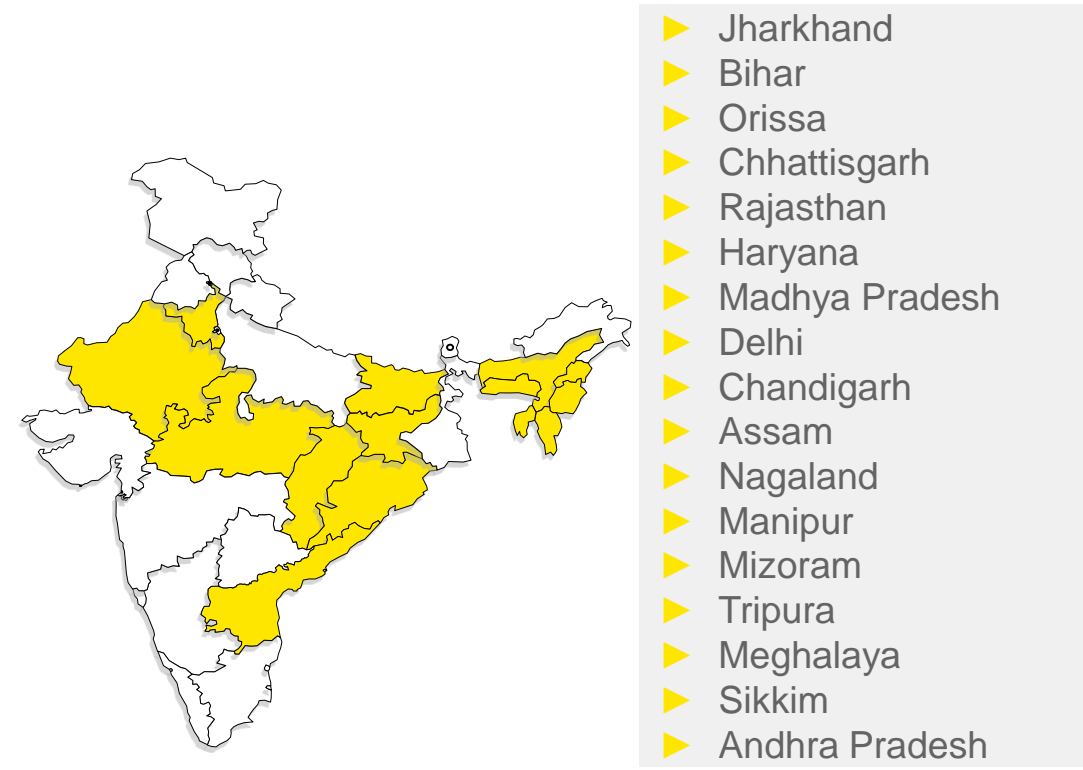
Technical Assistance : USD 13 million
www.suprabha.org



Interventions:

- 1 Policy & Regulatory
- 2 Capacity Building
- 3 SSN Knowledge Exchange
- 4 Media & Outreach
- 5 Process Streamlining
- 6 Demand Aggregation

Coverage : 17 Indian states



Achievements: Media and Outreach for Raising Consumer Awareness

Media Coverage

Solar energy to power govt buildings

Tariff Touches Record Low Of ₹1.58/Unit

HOW LOW TARIFF WAS ACHIEVED?

- ↳ Ujja Vikas Nigam first identified buildings for rooftop installation
- ↳ The beneficiaries were consulted and their approval for power purchase taken, i.e. the project had buyers even before bidding
- ↳ With the help of World Bank and International Solar Alliance a detailed study of each & every site was conducted

Category Wise Tariff Rates

BENEFICIARY CATEGORIES	Min tariff (₹/unit)	Annual savings of electricity cost (in ₹ cr)
Government colleges	2.21	3.95
Govt medical colleges	1.74	2.10
Institutions of Central Government/ National importance	1.67	3.01
Govt universities in MP	1.91	2.31
MP police establishments	2.33	2.30

August 2018 - April 2019

NEWS@ SUPRABHA

Newsletters

National & State level Advertisements

दिल्ली और हरियाणा का स्वच्छता करती है आइसो हमसे जुड़ो! सुदूरबीबी और चोखा के लिए स्वच्छता की!

एई&रिएम

SUN SMILES OVER MADHYA PRADESH

At PCCO headquarters, an exclusive meeting on ROOFTOP PV was held with representatives of Government of India, Ministry of Power, Government of Madhya Pradesh, and Government of Uttar Pradesh.



TV Commercials

Media Collaterals

Sh. H.P Sharma
General Manager
Arun Bihari Vajpayee Institute of Good Governance & Policy Analysis

which was around 3-4 lakhs per month

Consumer testimonials



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