Creating enabling ecosystem for rooftop solar
Current policies, incentives and innovative mechanisms

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Rooftop solar journey

52%
Industrial sector
Large unutilised roof areas, higher electricity consumption and grid tariff are driving the demand in the sector

35%
Commercial and public sector
Higher electricity tariff and RESCO model make rooftop solar an attractive option for commercial consumers

13%
Residential sector
Lack of consumer awareness, roof ownership and high upfront cost are some of the key impediments

Sharing cost and benefit of rooftop solar equitably

Innovative business models for accelerated growth

Capacity Addition (GW)

- 2017: 1.6
- 2018: 2.9
- 2019: 4.8
- 2020: 6.0

Favourable policy and regulatory ecosystem
Incentive schemes for early adopters
Consumer awareness
Industry innovations

Bridge to India (2020), India Solar Rooftop Map
Equitable sharing of cost and benefits

**Generation**
- Avoided generation capacity cost (AGCC)
- Avoided power purchase cost (APPC)

**Transmission**
- Avoided transmission charges (ATRC)

**Distribution**
- Avoided distribution capacity infrastructure and related O&M cost (ADCC)

**Externalities**
- Avoided renewable energy certificate cost (ARECC)
- Reduced working capital (AWCC)

Current Net-metering or Gross-metering regulations benefit either the consumers or the Discom

- Revenue loss
- Added transmission and distribution services cost

CEEW (2019), Valuing Grid-connected Rooftop Solar: A Framework to Assess Cost and Benefits to Discoms
Innovative business models for accelerated growth

- High upfront capital
- Lack of access to affordable financing
- Lack of knowledge about trustworthy vendors
- Small and distributed systems
- Lack of awareness
- Lack of access to suitable roof spaces

Community Solar for multi-story buildings
On-bill Finance
Solar Partners model
Rural community feeder model
Thank you

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