



Distribution Utilities Forum

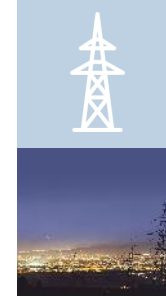


Rooftop Solar

Theme for next DUF meeting

Findings from consultations with Discoms

Objectives



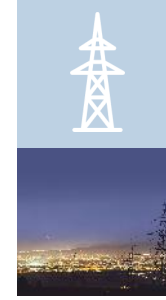
Broad objective

To present a '**distribution utility**' perspective on the advantages and impact on DISCOMs for implementation of Rooftop Solar

Specific objectives

- To identify the key challenges faced by Discoms in **implementing the Rooftop solar program** as well as the forthcoming after-effects of these programs on their performance
- To **highlight leading operational and institutional best practices** that have enabled Discoms to promote installation of rooftop solar

Approach and Methodology



Developing the framework for assessment of impact on RTS on DISCOMs

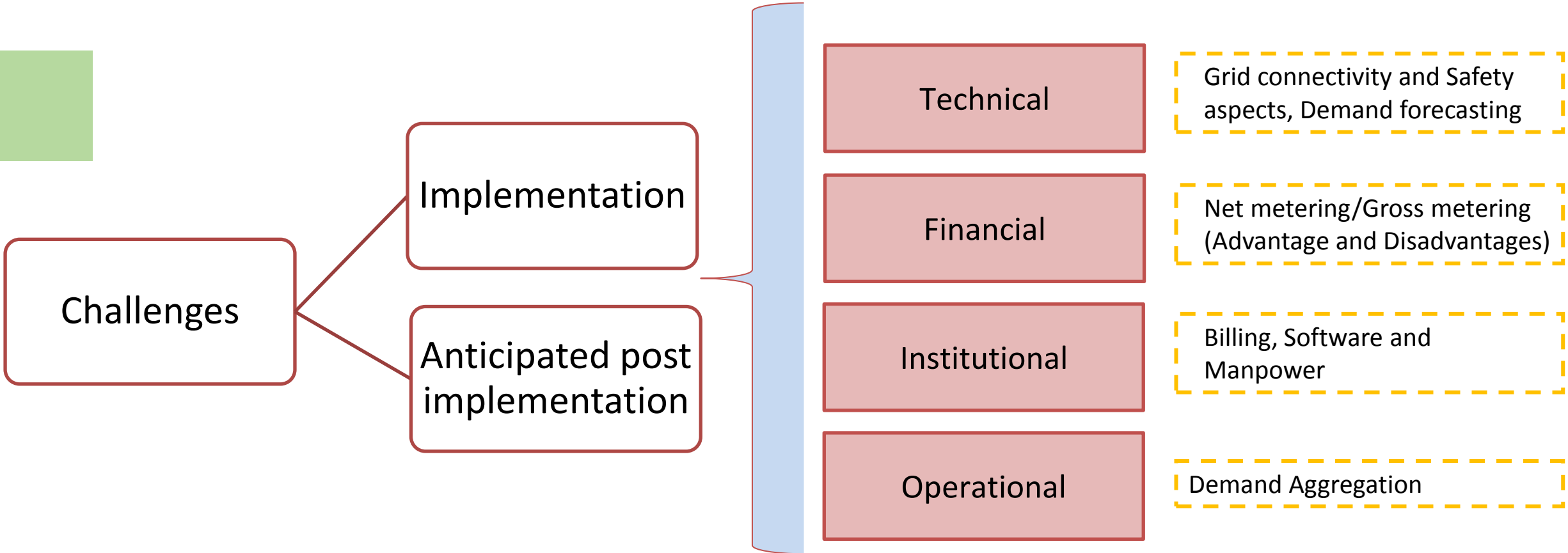
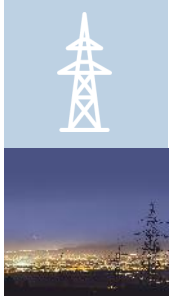
Assessment of two Discoms for comparative analysis- based on the proposed framework

Development of consultation framework and checklist of questions for discussion with Discoms

Individual and group interviews with senior Discom officials

Collation of findings and development of discussion paper

Framework



Type and degree of challenges may vary from State to State

Framework



TECHNICAL IMPACTS AND ADVANTAGES

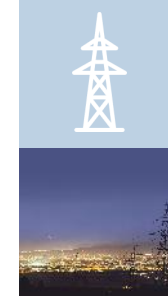
Advantages

- Reduced T&D losses
- Infrastructure deferral to meet the peak demand
- Fulfilling RPO obligation

Technical Impact

- Capacity of solar rooftop PV system which can be hosted by the distribution feeder
- Augmentation required in the distribution network to accommodate anticipated growth in solar rooftop PV
- Probable measures for addressing technical impacts due to large penetration of solar rooftop PV

Framework



FINANCIAL IMPACTS

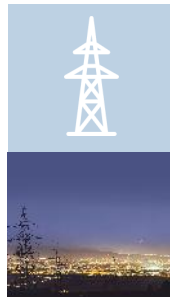
- Revenue loss for utility from high paying consumers
- Difficulty in recovery of cross-subsidy charges
- Metering arrangement and business models suitability

INSTITUTIONAL IMPACTS

- Capacity building requirements
- Availability of net meters
- Changes in application approval and billing software

OPERATIONAL IMPACTS

- Consumer awareness and aggregation of solar rooftop
- Generation monitoring for forecasting purpose



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