



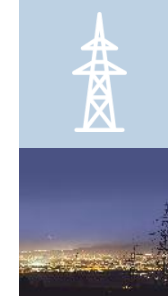
Distribution Utilities Forum



Solar Roof Top : Issues and Challenges

WBSEDCL

Current Scenario



- General Overview:

- Supply Mix:

Type	Thermal	Hydro (Incl. Own Gen)	RE & Co-Gen
2017-18	86.40%	10.41%	3.19%

- Consumer mix :

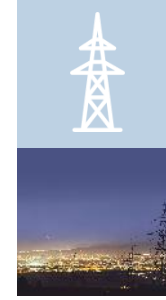
Type	Domestic	Commercial	Industrial	Irrigation	Others
2017-18	88.75%	8.86%	0.58%	1.64%	0.17%

- Solar rooftop :

- Installed capacity vis-à-vis plans/trajectory for future:

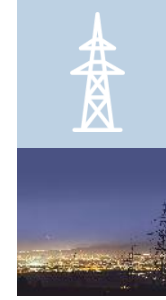
	IPDS	Aloshree Proj.	Govt. Schools	WBREDA	Others viz.
Plan	5.125 MWp	10.5 MWp	2 MWp	11 MWp	WBPCB, IOC, Railways, SBI (No data available)
Inst. Capacity	2.0 MWp	0.730 MWp	1.4 MWp	0.92 MWp	

Perspective with respect to Solar rooftop



- **Benefits:**
 - **Dist. Loss Reduction, DTr. Load Reduction, RPO fulfillment, Govt. Subsidy reduction, Cross-subsidy reduction**
- **Challenges:**
 - **Infirm Gen vis-à-vis variation of demand, system unbalance, absence of mechanism for periodic checking of modules & inverter (Safety Issue), Capturing generation of isolated RTS, Regulatory constraints (Only 3-Ph net metering allowed), Consumer mobilization**
- **Opportunities perceived:**
 - **Conservation of fossil fuel, CDM initiatives**

Initiatives/Recommendations



- **Technical & Operational**
 - Establishing of Remote monitoring & measurement
 - Enabling optimization of tilt angle of modules
 - Increasing operating range of Inverter module (-20% to +10% at present)
 - Periodical health check-up of modules & Inverters by authorized agency
- **Commercial and Financial**
 - Outsourcing for data collection and regular monitoring
- **Administrative**
 - Appropriate provisions for sending RTS generation data
 - Initiatives for customer mobilization for RTS
- **Regulatory**
 - Lowering of permissible capacity of RTS and expanding category of consumers
 - Provision of Gross metering



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