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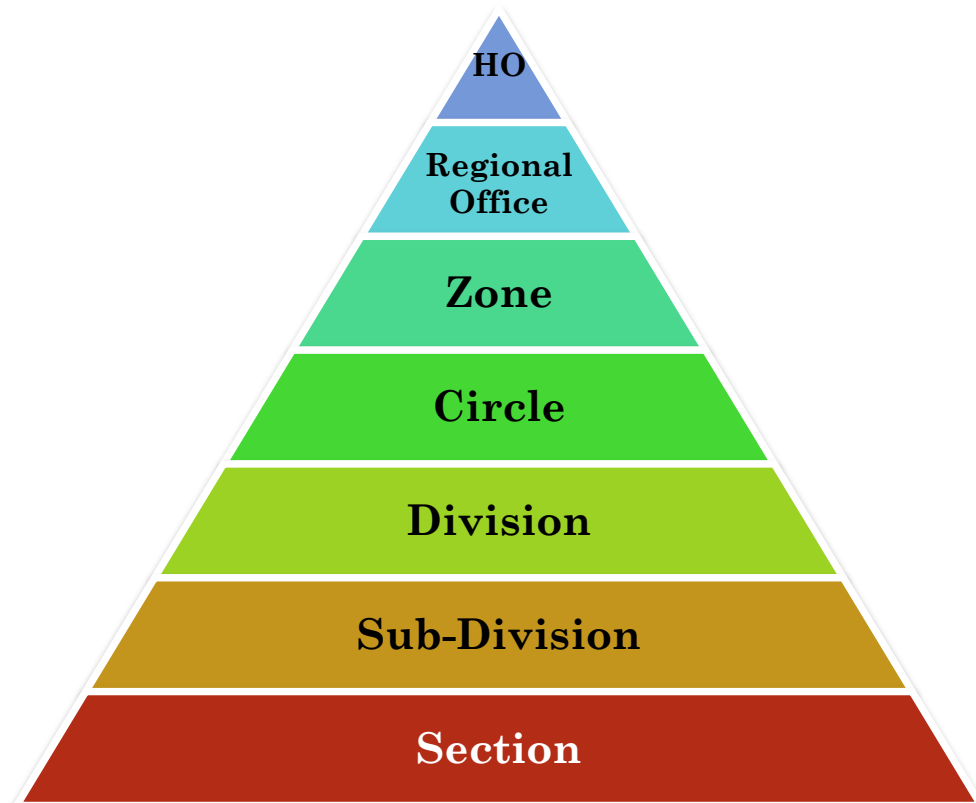
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PRESENTATION TO 5TH DISTRIBUTION UTILITY FORUM (DUF) MEETING MSEDCL OVERVIEW



MSEDCL AT A GLANCE (MARCH 2019)

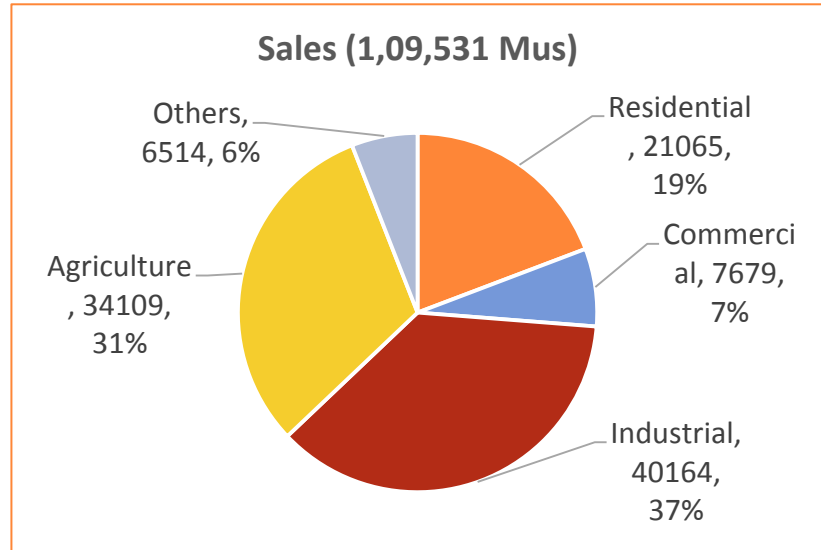
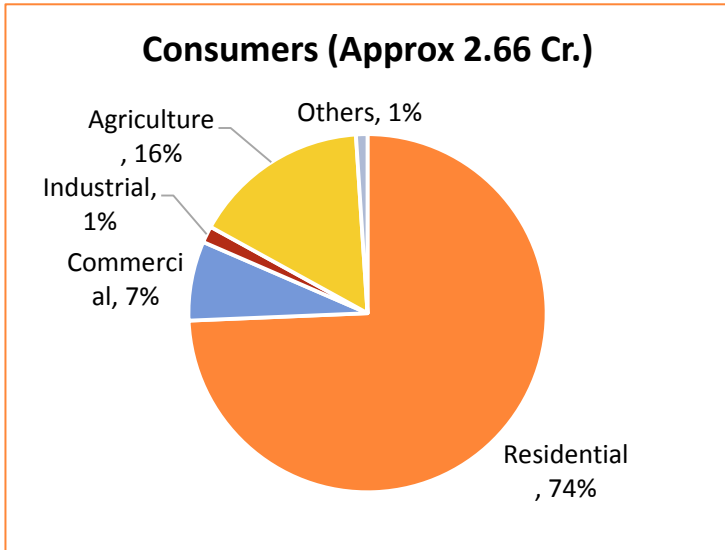
Particulars	Nos.
Nos. of Consumers	2.66 Crs
Area Covered	3.08 Lakh Sq.KM
Towns	457
Villages	41,095
Zones	16
Circle	45
Divisions	142
Sub-Divisions	633
Section Offices	3227
Employees strength	65,146
Annual Sales	1,09,531 Mus
Annual Revenue from Sale of Power	~ 72,227Cr.



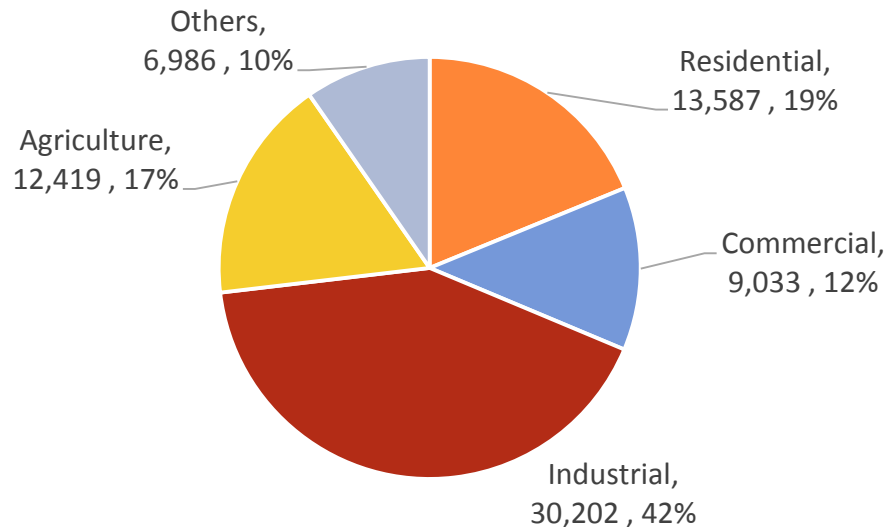
MSEDCL INFRASTRUCTURE

Particulars	Unit	FY 18-19
Sub-Stations	Nos.	3,679
HT Lines	Ckt-kM	3,78,503
DTCs	Nos.	6,10,447
LT Lines	Ckt-kM	6,71,482
Sales (incl Franchisee)	MU	1,09,531
No. of Ag Connections	Nos.	42,20,682
Total No. of Consumers	Nos.	2.66 Crs

CONSUMER AND REVENUE MIX (FY 18-19)

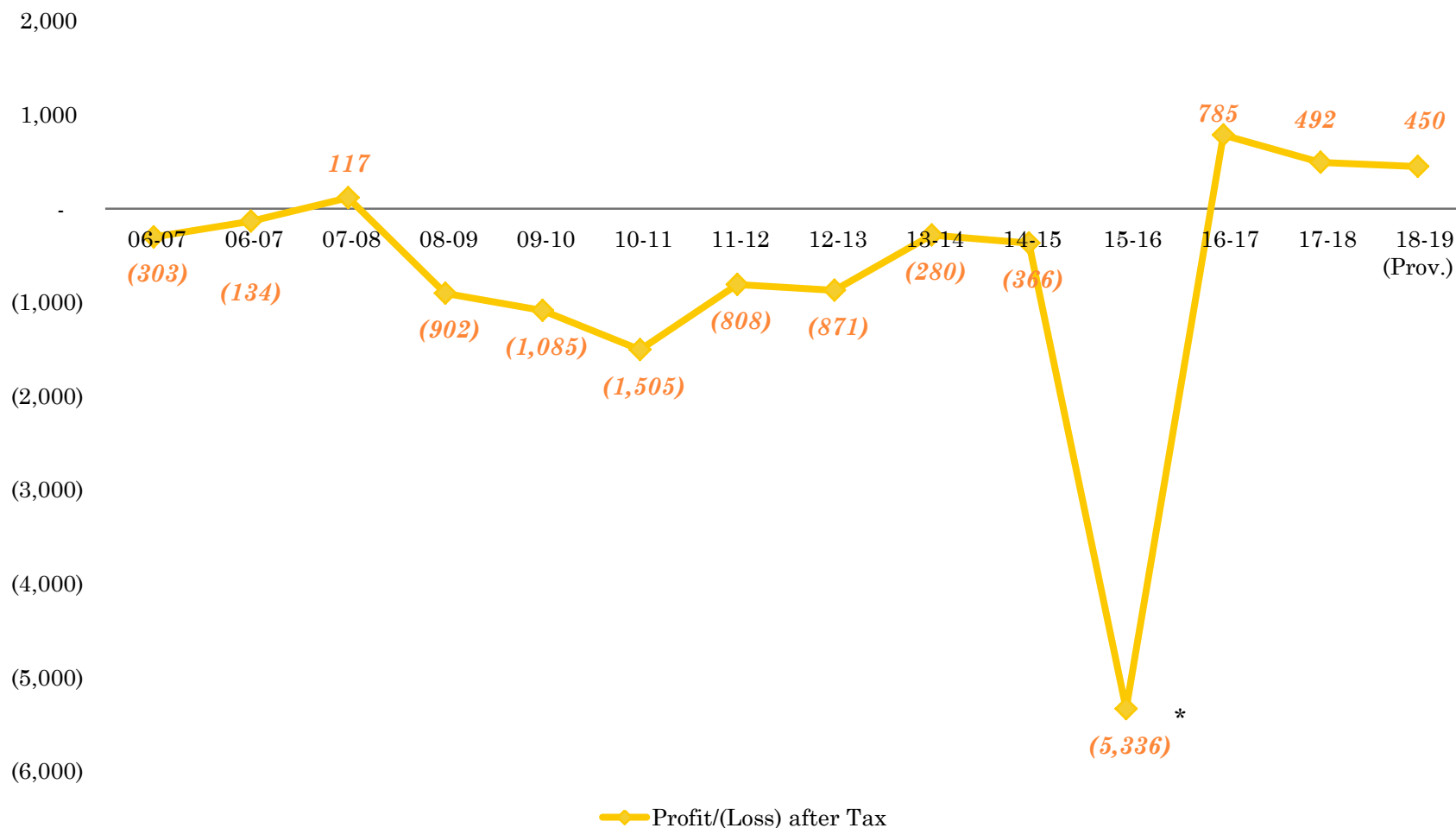


Revenue from Sale of power (Rs.72,227 Crs)



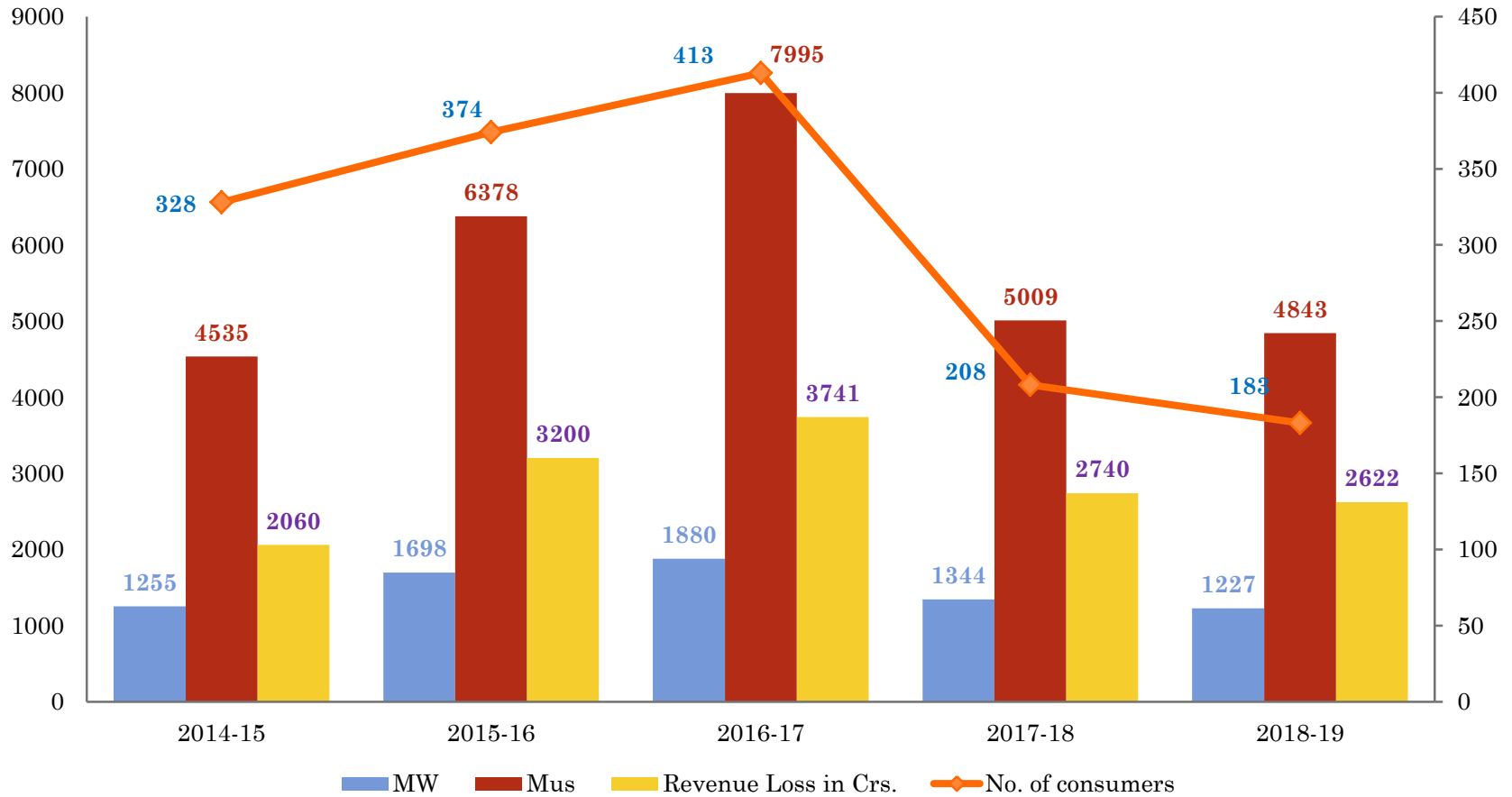
BOOK PROFIT / LOSS (RS. CRS)

Profit/(Loss) after Tax



*Loss in FY 2015-16 is increased to Rs.5336 Crs which is mainly due to booking of delay payment charges to Genco & Transco in FY 2015-16. (Rs.3886 Crs)

STATUS AND FINANCIAL IMPACT OF OPEN ACCESS

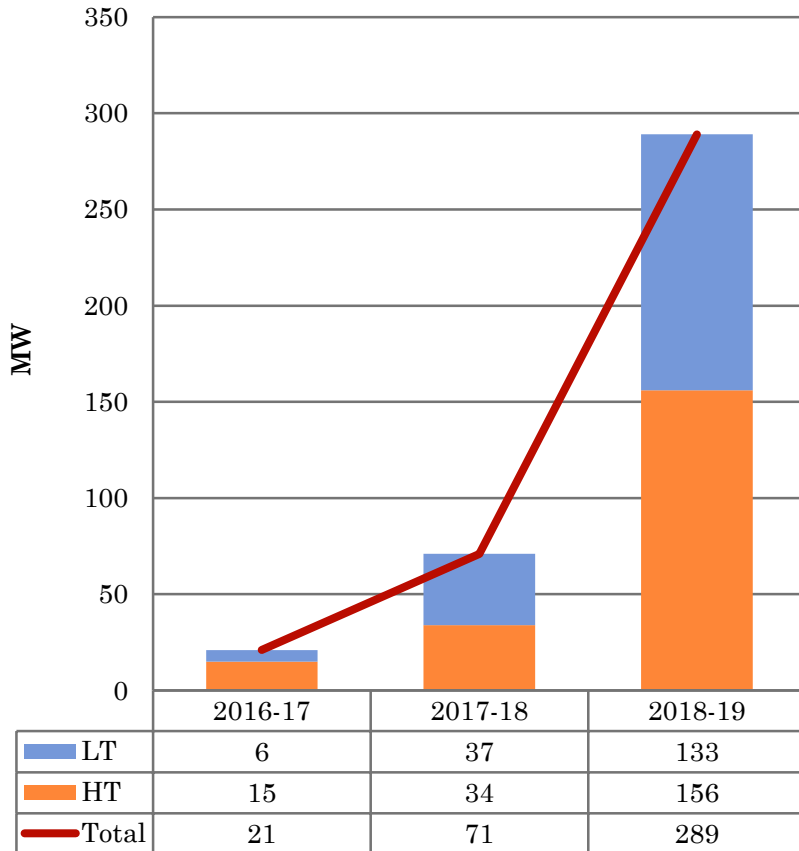


KEY ISSUES

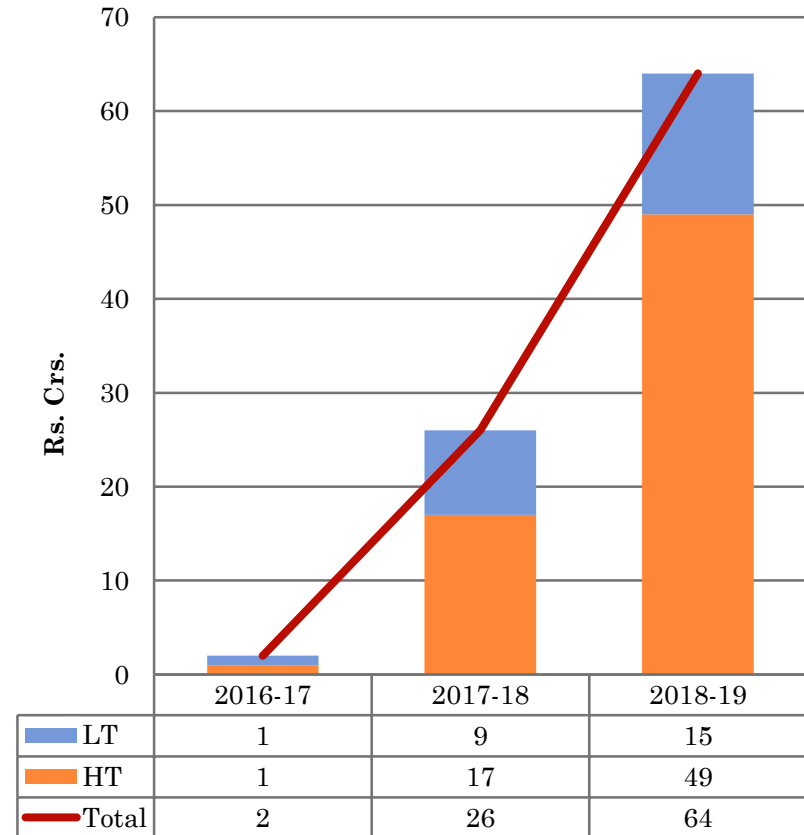
- Frequent shifting of Open Access Consumers - Between DISCOM and other sources of power and USO on DISCOM resulting in stranded capacity.
- Determination of Cross Subsidy Surcharge - CSS has been capped to +/- 20% of ABR
- Tariff design and rationalization
- Determination of Additional Surcharge
- Determination of Stand-By charges
- Group Captive Consumers.
 - Determination of Captive Status only at end of year.
 - 26% equity share capital and 51 % self consumption as per Electricity Rules 2005.
 - Change of shareholding pattern during the year to avoid CSS and AS
 - No provision for Payment Security like LC or Bank Guarantee.
 - Matters pending since long before various legal forums.
- Banking of RE power

FINANCIAL IMPACT OF SOLAR ROOFTOP

Solar Capacity in MW



Cross Subsidy Impact in Rs. Crs.



There is exponential rise in Solar Rooftop.

Rise in No. of consumers : 1074 to 14392 and Solar Generation : 4 Mus to 253 Mus.

KEY ISSUES AND GROSS METERING

- Net-Metering affect the Cross subsidy structure of tariff
- Industrial Consumers opt to install Solar Rooftop as Captive Generation without opting for Net metering

- **Gross Metering:**
 - Entire injected power is procured at APPC rate or rate discovered through Competitive Bidding.
 - No loss of sales to DISCOM and Full recovery of Distribution Cost
 - Cross subsidy maintained within the category of consumers
 - Gross Metering provides level playing field to all consumers.

- MERC Distribution OA Regulations, 1st amendment 2019 : Gross metering for the consumers who opt for Open Access as well as Solar Rooftop.

THANK YOU



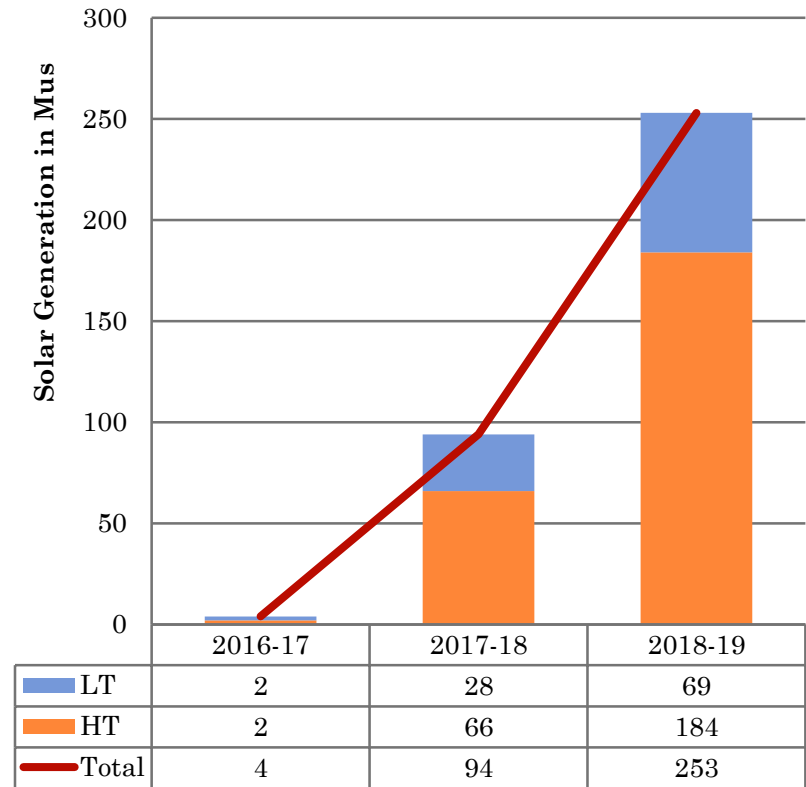
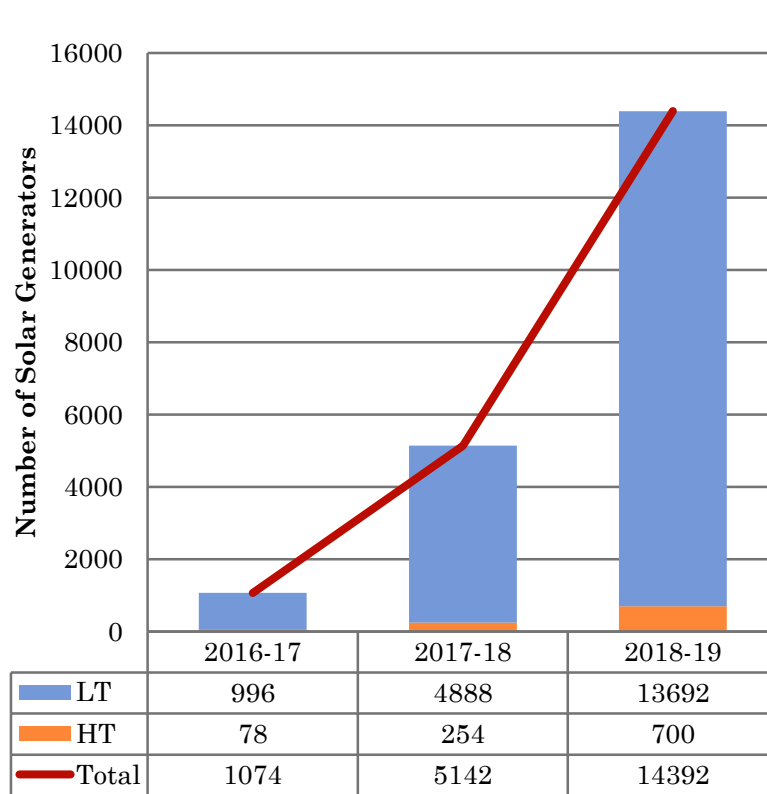
DISTRIBUTION OPEN ACCESS (DOA)

- Open Access (OA) has been introduced in Maharashtra since 2005. However, it started gaining momentum since 2010.
- Eligibility: Consumer having contract demand of 1 MW and above.
- Special Energy Meter (SEM) is mandated and adjustment of units is in 15 mins time block.
- OA consumer can avail Long term (> 7 years), Medium Term (> 3 months but < 5 years) and Short Term (< 1 month including Day Ahead) Open Access.
- OA consumers have to bear Transmission and wheeling charge and loss, Cross subsidy Surcharge (CSS) and Additional Surcharge (AS introduced since Nov-2016). CSS and AS is not applicable for captive consumers but ASC is applicable to group captive consumers
- OA consumers opted for STOA, as the transmission charges were levied on actual consumption (per kwh instead of KVA/ month). In case of repeated STOA, MERC has introduced multiplying factor limited to two times the charge with effect from June 2019.
- Banking on ToD basis is allowed for RE generation. Upto June 2019, banking was allowed on yearly basis. However, from June 2019 onwards banking is on monthly basis.

SOLAR ROOFTOP – REGULATION 2015

- Eligibility: Capacity less than 1 MW; including Consumer catering to a common load such as a Housing Society
- Ownership: Generating System may be owned and/or operated by Consumer, or by a third party leasing such System to the Consumer.
- Cumulative Capacity: connected to a particular Distribution Transformer shall not exceed 40% of its rated capacity
- Individual Project Capacity: Shall not exceed his CD (in kVA) or Sanctioned load (in kW)
- Energy Accounting:
 - If electricity exported exceeds imported, excess shall be carried forward to the next Billing Period as credited Units of electricity.
 - If electricity imported exceeds exported, Discom to raise bill for the net electricity consumption after adjusting the credited Units.
 - Unadjusted net credited Units at the end of each financial year shall be purchased by the Discom at APPC approved by MERC for that year, within first month of the following year
- RPO/REC: Electricity consumed by consumer, if such Consumer is not an Obligated Entity, qualify towards meeting the Solar RPO of the DISCOM; such energy not eligible for REC
- Eligible Consumer can avail subsidy or incentives if offered by the Central / State Government on capital cost of the Rooftop Solar PV system; MEDA will be the Nodal Agency for such subsidy or incentives

FINANCIAL IMPACT OF SOLAR ROOFTOP



There is exponential rise in Solar Rooftop.