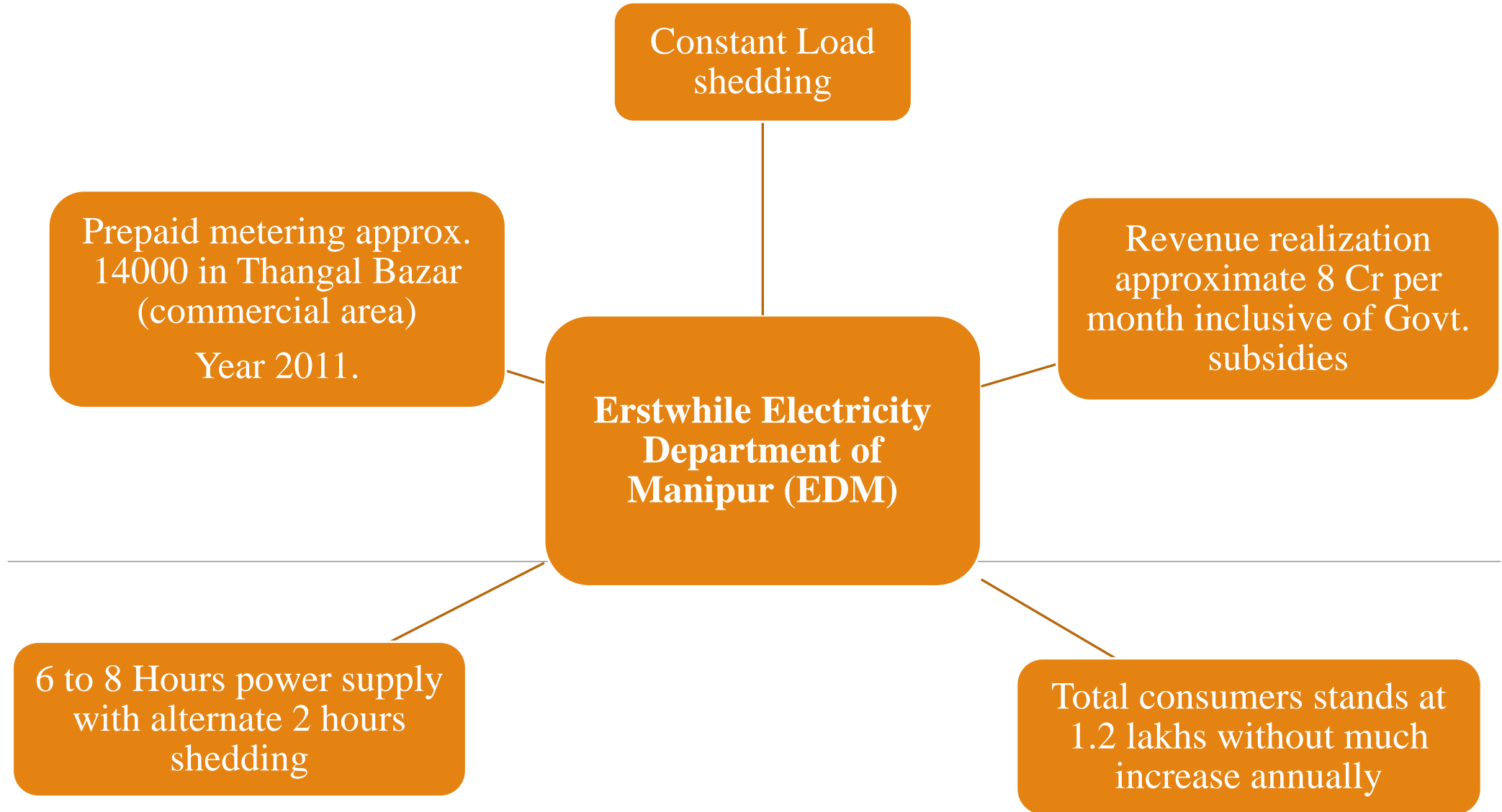


Manipur State Power Distribution Company Limited (MSPDCL) Post Feb' 2014

PREPAID METER & REDUCTION OF AT & C LOSSES



**After corporatization
and subsequently
forming of MSPDCL
in Feb' 2014**

1. Load shedding hours reduced and the DISCOM is able to provide continuous 12 hours power supply to all important places/feeders

2. Immediate steps taken were

i) Preparation of précised load shedding schedule in consideration of important feeders , 33/11 KV Substation and line constraint

ii) Segregation of few important feeders. iii) Choosing DTR wise location for planning of prepaid metering.

iv) Tapping of all consumers (illegal as well as unmetered) with prepaid meters thereby increase in legal consumer's base drastically (3.35 Lkhs legal consumers prepaid metered)

v) Minimizing procedure for regularization of consumers as and on spot for becoming a consumer. LT connection used to 2 to 3 weeks and HT connection approx. 2 to 3 months approx. during EDM period. Now It takes maximum 3 to 6 days/on spot regularization of LT consumers and 1 to 2 weeks for HT connection applied through online.

**After corporatization
and subsequently
forming of MSPDCL
in Feb' 2014**

- vi) For LT connection, Single page with minimum details required is allowed to fill up (FORM5) and with any copy of Government ID. (Year 2014- Onward)
- vii) No initial charges were taken for becoming consumers.
- viii) Implementing cashless transaction as early as beginning of 2015.
- ix) Digitization of consumers.
- x) Stringing of ABC conductor simultaneously in all areas where prepaid meters are installed. Important factor to minimized or bring parallel hooking to nil.

- xi) Migration of consumers to SAP platform with outstanding dues for automatic deduction (20% of recharge value where minimum recharge value is Rs 500) and integration with the system with all the 3rd party online recharge vendor.
- xii) CCC functional for Capital City Imphal.
- xiii) SLDC was formed and power requirement were met from exchange.
- xiv) SAP enabled web base for bringing down complexity in frequent VPN link failure.

Achievements

Sl. No.	Year	Prepaid Meter Installed	Cumulative No. of Consumer	Revenue Collected (Without Subsidies)- Rs. Cr	Energy Consumption -MU	Peak Demand- MW	Power Supply- Hrs./Day	Reduction in AT&C Losses- (%)
1	FY14	14,000	1,20,000	89.66	-	-	10-12	72
2	FY15	85,000	2,10,000	136.57	325.57	210.0	15-16	65
3	FY16	1,10,000	3,05,000	181.11	386.5	171.0	20-22	48
4	FY17	1,26,000	4,36,774	212	511.92	169.0	22-24	35
5.	FY18(till Q2)	3,245	4,40,019	126.22	376.53	185	22-24	31.3
Total		3,38,245	4,40,019					

Sl no	Place/HQ	Division/SD	Feeder name	EDM Year 2011 -13 Ampere Loading	2017 Present Ampere Loading	Peak Hour Time	Remark
1	Imphal City	Imphal Electrical Division 2	RMC Old Feeder	110	47	7:30 PM	No change in Feeder Structure
2	Bishnupur District	(RAPDRP Area) Bishnupur SD	Bishnupur Feeder	170	70	7:30 PM	No change in Feeder Structure
2	Thoubal District	(RAPDRP Area) Thoubal SD	South Feeder	145	80	7:30 PM	No change in Feeder Structure

Difficulties faced during implementation of prepaid metering

1. Consumer reluctant and denial to put prepaid meter.
2. Apprehension towards regular power supply by MSPDCL.
3. No proper HT and LT infrastructure.
4. New DTR requirement

5. Replacement of bare wire with ABC conductor.
6. Previous outstanding dues not acceptable to consumers.

7. Low voltage at tail end of DTR since there is minimum voltage (160 V) requirement for prepaid meter activation.
8. Complain of Money taken by Installation team

10. MSPDCL media coordinator appointed to reach out to general public on prepaid metering and its procedure.

9. Consumer awareness mobilized extensively through plays and programs.

11. On-Spot minimum recharge value or Activation (Rs 500/-) was considered high in some area and consumer reluctant to pay. Later revised to Rs 200/-

CONCLUSION

- 1) Able to give 24 hours power supply
- 2) Consumer base increased to 4 Lakhs approx.
- 3) Revenue increase from 8 Crs. (During EDM and with Govt. Subsidies) to 17-20 Crs. approx. per month (As MSPDCL and without Govt. Subsidies).

4) Energy consumption increase from 320 MU to 510 MU approx and Peak load reduced to 169 MW approx. from 210 MW

- 5) Digitization of all consumers and bringing all consumers under single platform (SAP)
- 6) Online application for HT consumers.

7) Online No Due certification for Government employee to process salary.

8) Integration with online collection services like Billdesk, Paytm and offline modes like ITZ cash, Oxigen and Vodafone m-pesa. And process initiated for participation in BBPS to enable payment collection through all possible payment options.

WAY FORWARD

1. Mobile Application for MSPDCL

3. System strengthening.
4. CCC services to be made available throughout Manipur.

5. Bringing down AT & C losses to 15 % (Target)

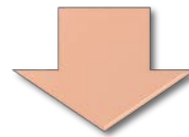
1. Why Prepaid Meter and Why not Smart Meter

2. What can be done to make existing prepaid meter as two way communication or to convert existing system as smart prepaid meter?

3. Financial burden and Support required from Go/GoM as Grant in Aid.

4. Rework of all existing system will bring greater financial impact and maximum resource mobilization compare to current status.

5. If necessary MSPDCL would opt for smart prepayment meter with condition of financial support from Go/GoM as GIA.



Point of Discussion

THANK YOU