

National Smart Grid Mission, Ministry of Power, Government of India

Status of Smart Grid Pilots & NSGM Smart Grid Projects – October 2017

Pilot Projects

1. CESC, Mysore

- Evaluated Project Cost: Rs.32.56 Cr., Gol Support: Rs.16.28 Cr.
- Consultant – POWERGRID.
- V V Mohalla Division, Mysore (21,824 Consumers).
- Adopted Functionalities: AMI, OMS, PLM, MG/DG.
- Project awarded to M/s Enzen Global Solutions in March 2014 at a cost of Rs.32.56 Cr.
- Rs.8.14 Cr. of MoP share released to utility.
- ~19600 smart meters, 453 DCUs, 318 TMUs, 5 FPIs and 130 HT modems installed.
- 16,000 smart meters & 80 modems communicating.
- 5 RTU / data loggers for SCADA installed in substations.
- Applications integration under progress.

2. HPSEB, Himachal Pradesh

- Evaluated Project Cost: Rs.19.45 Cr., Gol Support: Rs.9.73 Cr.
- Consultant – POWERGRID.
- Kala Amb Industrial Area (1,554 Consumers).
- Adopted Functionalities: AMI, OMS, PLM.
- Project awarded to M/s GE T&D (erstwhile Alstom) in February 2015 at a total cost of Rs.24.99 Cr.
- Rs.4.86 Cr. released to the utility from MoP.
- ~1100 smart meters installed.
- Control Centre setup (servers, networking) completed.
- Smart meters data started receiving at control centre. Automatic bill generation started with smart meter data.
- Integration of MDM with existing billing system under progress.

3. UHBVN, Haryana

- Approved Project Cost: Rs.35.94 Cr., Gol Support: Rs.0 Cr.
- Panipat City Sub Division (11,000 Consumers).
- Adopted Functionalities: AMI, PLM, OMS.
- Project is being implemented under grant from NEDO (Japan) by M/s Fuji Electric & Co., Japan.
- Site survey completed. Engineering for control centre hardware and software completed.
- SCADA and AMI at HPTI completed for training purpose.
- ~1400 single phase smart meters and 10 DCUs installed.
- BIS certification received for 3-phase smart meters.

4. APDCL, Assam

- Evaluated Project Cost: Rs.20.92 Cr., Gol Support: Rs.10.46 Cr.
- Consultant – MEDHAJ.
- Guwahati region (15,083 Consumers).
- Adopted Functionalities: AMI, PLM, OMS, PQ, DG
- Project awarded to M/s Fluentgrid (erstwhile Phoenix IT) Solutions in March 2015 at a cost of Rs.29.86 Cr.
- Rs.5.23 Cr. released to Utility from MoP.
- ~14,000 smart meters installed.
- Draft regulations notified by AERC. Petition drafted.
- Design for integration with RAPDRP systems is under progress.
- To be completed by March 2018.

5. PSPCL, Punjab

- Evaluated Project Cost: Rs.7.16 Cr., Gol Support: Rs.3.58 Cr.
- Consultant – POWERGRID.
- Tech-II Sub-division, SAS Nagar (2,737 Consumers).
- Adopted Functionalities: AMI, PLM.
- Project awarded to M/s Kalkitech in March 2015 at a cost of Rs.8.17 Cr.
- Rs.89.5 Lakhs released to the Utility from MoP.
- Survey completed. UPS & batteries installed at data centre.
- Termination letter issued to system integrator due to nil progress.
- Proposed to continue the project on its own.
- Decision on continuation to be taken by PSPCL management.

6. WBSEDCL, West Bengal

- Approved Project Cost: Rs.7.03 Cr., Gol Support: Rs.3.52 Cr.
- Consultant – POWERGRID.
- Siliguri Town in Darjeeling District (5,265 Consumers).
- Adopted Functionalities: AMI, PLM.
- Project awarded to M/s Chemtrols in June 2015 at a cost of Rs.8.10 Cr.
- Rs.87.87 Lakhs released to the Utility from MoP
- Site survey completed. DRS for Smart Meters and DCUs were approved.
- Make change of three phase whole current meters approved by WBSEDCL
- Meters under type testing at IDEMI. SI to deploy temporary data centre for testing.

7. TSECL, Tripura

- Approved Project Cost: Rs.63.43 Cr., Gol Support: Rs.31.72 Cr.
- Consultant – POWERGRID.
- Electrical Division No.1, of Agartala town (45,290 Consumers).
- Adopted Functionalities: AMI-R, AMI-I, PLM.
- Project awarded to M/s Wipro in September 2015 at a cost of Rs.80.08 Cr.
- Rs.14.10 Cr. released to Utility from MoP
- ~10,500 meters and 46 DCUs installed.
- Control centre hardware and software installed.
- Acceptance testing of applications under progress.
- Integration with RAPDRP systems pending.

8. TSSPDCL, Telangana

- Evaluated Project Cost: Rs.34.93 Cr., Gol Support: 17.47 Cr.
- Consultant – CPRI.
- Jeedimetla Industrial Area (11,906 Consumers).
- Adopted Functionalities: AMI, PLM, OMS, PQ.
- Project awarded to M/s ECIL, Hyderabad in October 2015 at a cost of Rs.35.86 Cr.
- Rs.4.37 Cr. released to the utility from MoP.
- 28 smart meters installed for PoC study. PoC successfully completed.

- All equipment for smart meter manufacturing ready at ECIL.
- Applications are under development.
- Smart meters to be submitted to CPRI, Bangalore for type testing.

9. PED, Puducherry

- Evaluated Project Cost: Rs.35.53 Cr., Gol Support: Rs.17.76 Cr.
- Consultant – POWERGRID.
- Division 1 of Puducherry (34,000 Consumers).
- Adopted Functionalities: AMI.
- Project awarded to M/s Dongfang Electronics, China in May 2016 at a cost of Rs.43.91 Cr.
- Rs.4.44 Crores released to the Utility from MoP.
- BIS certification received. FAT of meters successfully completed at DFE China facility.
- Control Centre software and application documents are under review.
- First lot of meters is under shipment.

10. IIT Kanpur Smart City Pilot

- Approved Project Cost: Rs.12.5 Cr., Gol Support: Rs.6.25 Cr.
- Smart City Pilot in IITK Campus.
- Rs.4.69 Crores released to IIT Kanpur as initial funding from MoP.
- Solar PVs installation for 19 households completed.
- Storage batteries & grid connected inverters installed in 4 houses.
- 19 single phase, 9 three phase meters and 13 DCUs installed.
- Customized distribution boxes (DBs) installed in houses for controlling non-essential loads using AMI, Home Automation & DR.

11. Smart Grid Knowledge Center, Manesar

- Approved Project Cost: Rs.9.8 Cr., Gol Support: Rs.9.8 Cr.
- Adopted Functionalities: AMI, OMS, MG/DG, EV with Charging Infra, HEMS, Cyber Security & Training Infra
- Building under construction.
- AMI and OMS components awarded to M/s Genus and M/s Cyient respectively.
- Micro Grid component is award.
- Rs.86.27 Lakhs of MoP share released to POWERGRID.
- Installation to be completed by March 2018.

12. UGVCL, Gujarat

- Approved Project Cost: Rs.82.70 Cr. (Naroda & Deesa), Gol Support: Rs.41.35 Cr.
- Naroda of Sabarmati Circle (22,230 Consumers).
- Adopted Functionalities: AMI, OMS, PLM, PQ.
- Scope revised to Naroda area only.
- Project awarded to M/s Genus in June 2017 at a cost of Rs.35.47 Cr.
- Survey started. Sample meter submitted to ERDA for testing.

13. AVVNL, Ajmer

- Ajmer City (1,000 Consumers) (PoC).
- Adopted Functionalities: AMI.
- Completed installation of 1000 smart meters (500-Radius and 500-JnJ meters).
- Project was successfully completed and made operational.
- Training for utility personnel conducted in November 2016 at Ajmer.
- Evaluation of project and envisaged outcomes under progress.

NSGM Projects

14. CED, Chandigarh

- **Approved Project Cost: Rs.28.58 Cr., Gol Support: Rs.8.6 Cr. (@30%).**
- Smart Grid Project at Sub Division 5 of Chandigarh (29,433 Consumers).
- Adopted Functionalities: AMI, DTMS and SCADA.
- Project was approved by Empowered Committee of NSGM on 29.03.2016 for a cost of Rs.28.58 Crores.
- Rs.87.54 Lakhs released to the utility from MoP.
- RECPDCL appointed as Project Management Agency.
- Financial bids evaluated. Due to high price bids, snap bidding is under progress.

15. Amravati, MSEDCL, Maharashtra

- Approved Project Cost: Rs.90.05 Cr., Gol Support: Rs.27.02 Cr. (@30%).
- Smart Grid Project at Amravati Town of Maharashtra (1.48 Lakh Consumers).
- Adopted Functionalities: AMI, OMS, DR.
- Project was approved by Empowered Committee of NSGM on 29.03.2016 for a cost of Rs.90.05 Crores.
- Tender floated on December 2016. Bid opening rescheduled to 06.11.2017
- SLP MU formed and Tripartite Agreement signed in March 2017.

16. Congress Nagar, MSEDCL, Maharashtra

- Rs.2.7 Cr. released to the utility from MoP.
- Approved Project Cost: Rs.139.15 Cr., Gol Support: Rs.41.74 Cr. (@30%).
- Smart Grid Project at Congress Nagar Division of Nagpur (1.25 Lakh Consumers).
- Adopted Functionalities: AMI, SCADA, OMS, and DR.
- Project was approved by Empowered Committee of NSGM on 27.10.2016 for a cost of 139.15 Crores.
- Empowered Committee in its second meeting on 27.10.2016 approved the project.
- Sanction letter to MSEDCL was issued on 22.04.2016.
- Tender floated on December 2016. Bid opening rescheduled to 06.11.2017

17. KESCO, Kanpur

- Approved Project Cost: Rs.319.57 Cr., Gol Support: Rs.95.87 Cr. (@30%).
- Smart Grid Project at Kanpur City (5.39 Lakh Consumers).
- Adopted Functionalities: AMI, PLM, DT Monitoring, DG.
- Project was approved by Empowered Committee of NSGM on 27.10.2016 for a cost of Rs.319.57 Crores.