

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

Status of Smart Grid Pilots & NSGM Smart Grid Projects – February 2018

Pilot Projects

1. CESC, Mysore

- Evaluated Project Cost: Rs.32.56 Cr., Gol Support: Rs.16.28 Cr. Released: 8.14 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.
- 20,916 smart meters, 617 DCUs, 445 TMUs, 44 FPLs, 134 HT modems and 5 RTUs installed.
- 19,078 smart meters & 110 modems communicating.
- Remote connect/disconnect for unpaid consumers tested
- Applications integration under progress.

2. HPSEB, Himachal Pradesh

- Evaluated Project Cost: Rs.19.45 Cr., Gol Support: Rs.9.73 Cr. Released: 4.86 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.
- 1,346 smart meters, 30 FPLs and 21 TMUs installed.
- Control Centre setup (servers, networking) completed.
- Automatic bill generation started with smart meter data.
- Training conducted for Control Center operations.

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.
- SCADA and AMI at HPTI completed for training purpose
- 7044 smart meters and 34 DCUs installed
- Project inaugurated by Haryana CM Sh. Manohar Lal Khattar in January 2018

4. APDCL, Assam

- Evaluated Project Cost: Rs.20.92 Cr., Gol Support: Rs.10.46 Cr. Released: Rs.5.23 Cr.
- Consultant – MEDHAJ.
- Guwahati region (15,083 Consumers).
- Adopted Functionalities: AMI, PLM, OMS, PQ, DG
- Project awarded to M/s Fluentgrid Solutions in March 2015 at a cost of Rs.29.86 Cr.
- 13,598 smart meters and 74 DCUs installed.
- 1674 meters communicating to Control Center.
- 3-ph LT/HT CTPT meters successfully tested at APDCL lab. SI to raise FAT call.

5. PSPCL, Punjab

- Evaluated Project Cost: Rs.7.16 Cr., Gol Support: Rs.3.58 Cr. Released: Rs.0.90 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.
- Termination letter issued to M/s. Kalkitech.
- 11th MCM of IPDS agreed for implementation by PSPCL on its own
- MDM deployment is in progress by M/s Analogics.
- Procurement of hardware and smart meters are under progress.

6. WBSEDCL, West Bengal

- Approved Project Cost: Rs.7.03 Cr., Gol Support: Rs.3.52 Cr. Released: Rs.0.88 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.
- I-FAT completed with few observations.

7. TSECL, Tripura

- Approved Project Cost: Rs.63.43 Cr., Gol Support: Rs.31.72 Cr. Released: Rs.14.10 Cr.
- Consultant – POWERGRID.
- Electrical Division No.1, of Agartala town (45,290 Consumers).
- Adopted Functionalities: AMI, PLM.
- Project awarded to M/s Wipro in September 2015 at a cost of Rs.80.08 Cr.
- 15,049 meters and 117 DCUs installed.
- Control center hardware and software installed.
- Acceptance testing of applications under progress.
- Billing started for consumers under one MRU section.

8. TSSPDCL, Telangana

- Evaluated Project Cost: Rs.34.93 Cr., Gol Support: 17.47 Cr. Released: Rs.4.37 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.
- 28 smart meters installed for PoC study. PoC successfully completed.
- Smart meters submitted to CPRI, Bangalore for DLMS testing.
- PO placed for automation components. FAT to be conducted.

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9. PED, Puducherry

- Evaluated Project Cost: Rs.35.53 Cr., Gol Support: Rs.17.76 Cr. Released: Rs.4.44 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.
- Control center documents submitted and are under review.
- BIS certification for meters received.
- 2281 smart meters and 1 DCU installed.
- 2nd lot of meters and DCUs received at Chennai Port.

10. UGVCL, Gujarat

- Approved Project Cost: Rs.23.18 Cr., Gol Support: Rs.11.59 Cr. Released: 2.89 Cr.
- Naroda of Sabarmati Circle (22,230 Consumers).
- Adopted Functionalities: AMI, OMS, PLM, PQ.
- Project awarded to M/s Genus in June 2017 at a cost of Rs.35.47 Cr.
- 248 single phase meters installed.
- Data reporting started at developmental server.
- Prototype inspection completed for 3-ph meters.

11. IIT Kanpur Smart City Pilot

- Approved Project Cost: Rs.12.5 Cr., Gol Support: Rs.6.25 Cr. Released: Rs.4.69 Cr.
- Smart City Pilot in IITK Campus.
- 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.
- R&D Platform showcased during 3rd Smart Grid training program held from 17th to 19th January 2018
- Project closure report under finalization.

12. Smart Grid Knowledge Center, Manesar

- Approved Project Cost: Rs.9.8 Cr., Gol Support: Rs.9.8 Cr. Released: Rs.2.52 Cr.
- Adopted Functionalities: AMI, OMS, MG/DG, EV with Charging Infra, HEMS, Cyber Security & Training Infra
- Building under construction.
- AMI, OMS and Micro Grid components awarded to M/s Genus, M/s Cyient and M/s RCCS respectively.
- Installation completed for AMI and OMS components.
- Micro Grid to be completed by March 2018.

NSGM Projects

13. CED, Chandigarh

- Approved Project Cost: Rs.28.58 Cr., Gol Support: Rs.8.6 Cr. Released: Rs.0.87 Cr.
- 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.
- RECPDCL appointed as Project Management Agency.
- Retendered in December 2017 for AMI and SCADA.
- Bids opened for AMI and SCADA tenders. Technical evaluation under progress.

14. Amravati, MSEDCL, Maharashtra

- Approved Project Cost: Rs.90.05 Cr., Gol Support: Rs.27.02 Cr. Released: Rs.2.7 Cr.
- 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.
- Tender floated in December 2016 and bids are live

15. Congress Nagar, MSEDCL, Maharashtra

- Approved Project Cost: Rs.139.15 Cr., Gol Support: Rs.41.74 Cr.
- 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.
- Tender floated in December 2016 and bids are live