

POWERGRID in Smart Grid Projects

- All attributes of Smart Grid implemented in Puducherry
- Developed Smart Grid Knowledge Center at Manesar
- Providing consultancy for following smart grid projects:
- CESC, Mysore (AMI, OMS, SCADA)
- TSECL, Agartala (AMI)
- WBSEDCL, Siliguri (AMI)
- UHBVN, Panipat (AMI, OMS SCADA)

- HPSEB, Kala Amb (AMI, OMS, SCADA)
- UGVCL, Naroda (AMI)
- PED, Puducherry (AMI)
- DHBVN, Gurgaon (AMI, OMS, SCADA)
- Implementing 11nos. REMCs for renewable integration.
- Experience in implementation of Distribution Automation projects.

Smart Grid Knowledge Centre

Demonstrable functionalities in Smart Grid Knowledge Centre

- 1. Advance Metering Infrastructure (AMI): Smart Meters along with different communication technologies (RF, PLC & GPRS)
- 2. Prepaid metering
 - Recharge through 16 digit pre-paid code
 - Recharge Online
- 3. Outage Management System demonstration on a sample distribution network
 - Auto-Recloser
 - Sectionaliser
 - Fault Pass Indicator (FPI)
 - Distribution Transformer Monitoring Unit (DTMU)
- DC Microgrid
- 5. Renewable integration and AC Microgrid
- 5. Smart Home Automation System
- 6. Training lab to train Utility Engineers

....Smart Grid Knowledge Centre









Scope of work in Smart Grid

- Advance Metering Infrastructure with state of the art communication system
- Data Analytics and Load Forecasting
- PLM to reduce peak demand
- Distribution Transformer Monitoring (DTMU)
- SCADA, DMS & OMS
- Substation Automation and RMUs
- Distributed Generation integration
- Power Quality Management
- GIS Mapping & Consumer Indexing
- Strengthening of Distribution infrastructure
- Reduction of distribution loss
- Energy Storage
- EV Charging Infrastructure

Business Model for the Smart Grid Projects

- POWERGRID shall provide professional service and finance the Smart Grid Project
- No upfront investment by utility
- Procurement through e-tender with e-reverse Auction
 - POWERGRID shall carryout the project on turnkey basis.
 - Provides maintenance and service new consumers for 7-10 years.
 - POWERGRID can provide cloud or dedicated server based solution as per the choice of the utility.
 - POWERGRID shall carryout capacity building of the utility engineers and consumer engagement for active participation.
 - Utility to pay POWERGRID annuity or per meter per month based on the discovered cost.

Thank You