

Significant Achievements of Power & NES Department from May,2011 to May,2016

1. Universal electrification of all households with grid connection by the end of 2015-16 is the most important initiative under the ongoing 'Sabar Ghare Alo' programme. As part of this programme, work in 11 (Eleven) Backward Districts under Special Backward Region Grant Fund (BRGF) to cover all categories of consumers is going on. Approx 13.79 lac household service connection have been installed out of which 13.36 lac have been effected till Oct'15. It is expected that total service connection will be effected by the end of 2015-16 FY.
2. Under RGGVY (XIIth Plan) with project cost of Rs.609.61 Cr. BPL households in the rest 7 districts of the State has been taken up recently. Under this project, 5706 nos. of villages will be covered and 2.51 lakh BPL connections will be effected. Infrastructure for effecting 3.44 lakh APL connections will also be created. Projects in 6 districts of Coochbehar, Siliguri MP, Nadia, Bardhaman, Hooghly, and North 24 Parganas have already in progress. So far upto October, 2015, 283 villages have been energized. Work in Howrah has also been taken up departmentally in November, 2015. About 20000 nos APL and 3000 Nos BPL have already been effected upto November, 2015. Further 1 Lac APL and 55000 nos BPL connection will be effected by May'16. Balance electrification work in APL households in the above 7 districts and all remaining households in the Urban areas of the State, Sagar and Sundarban areas has been taken up in right earnest with an estimated cost of Rs.371 cr. out of State Budget and is expected to be completed by April, 2016.
3. In order to improve the overall distribution infrastructure, recently two new schemes has been launched viz. Sech Bandhu in rural areas and Integrated Power Development Scheme (IPDS) in the urban areas. The scheme has 60%funding from Govt. of India and balance 40% has to be arranged by the State Government and Power Utilities. In Sech Bandhu, West Bengal is the first State in the country where entire project amounting to Rs. 4240.9 Cr. has been sanctioned for all districts. The scheme covers all the districts of West Bengal. It includes system strengthening, feeder segregation and improvement in the metering infrastructure. Under this scheme, WBSEDCL has taken up, i) Electrification of 14 no. UE villages & 59 nos. un-electrified habitant under 24 PGS(S) District in Sundarban area, ii) Drawal of 621 no. new 11 KV feeders for separation of agricultural load from existing mixed feeder, iii) Installation of 80 nos. new 33/11 KV & Augmentation of 106 nos. existing 33/11 Substation. iv) Renovation of existing LT OH Line with AB cables, installation of new DTR/Augmentation of existing DTR for system strengthening, v) Replacement of approx 13.66 Lakhs defective & old electro-magnetic

consumer energy meters and vi) Installation of approx 1.22 Lakh DTR meters for energy auditing. Field survey of feeder separation work will be completed by Dec'15. Civil work for 20 no. new 33/11 KV Sub-stations and augmentation of 106 no. existing 33/11 KV Sub-stations will be completed by May'16. Village electrification work under Sundarban will start within May'16.

4. In the IPDS Scheme, Govt. of India has sanctioned Rs.2866.76 crore to WBSEDCL for all districts and sanctioned Rs.58.26 crore to DPL for Durgapur township area. The scheme involves strengthening of distribution network and steps towards improvement in metering infrastructure in the urban areas. Under this scheme, WBSEDCL will set up, among other activities, 45 nos. new 33/11 KV sub-station covering 121 town areas, while DPL will set up 3 sub-stations.
5. 93 nos. new 33/11 KV Sub-stations having total capacity of 766.5 MVA have been commissioned by WBSEDCL and further 16 nos (197.5 MVA) will be constructed by May'16. 3694 CKM new 33 KV line, 72543 CKM new 11 KV line, 208804 CKM new LT line commissioned by WBSEDCL so far.
6. 70,275 nos. of new Distribution Transformers installed by WBSEDCL raising the Distribution Transformation capacity by 3024 MVA. Further 2000 nos (100 MVA) will be added by May'16.
7. Grid power extended to Gosaba Island in the Sundarban in 2012. All Households in Sagar Island have already been electrified.
8. State-of-the-Art Data Centre and Disaster Recovery Centre of WBSEDCL (first of its kind in India) made operational.
9. R-APDRP Part-A: Creation of IT infrastructure and development of IT initiative for Metering, Billing, Collection, Meter Data Acquisition System and GIS Mapping under R-APDRP Part- A has been completed in 61 nos Towns.
10. R-APDRP Part-B : This scheme is for renovation, modernization and strengthening of Distribution System and network infrastructure in 63 towns. Work has been completed in 39 nos Town will be completed by May'16.
11. WBSEDCL have undertaken Supervisory Control and Data Acquisition (SCADA) project in the 33kv & 11 kv substations and 11 KV feeders. This project is covering total 42 no. 33kv substations, 17 no. 11kv switching substations and 69 no. of Ring Main Unit (RMU)

locations within the urban areas of Kolkata U/A (Kolkata Urban Agglomeration), Siliguri & Asansol (U/A). The project is expected to be completed in 2016.

12. Consumer base of WBSEDCL is increasing in an impressive manner which has already crossed the 1.5 Crore milestone and in October, 2015 it stands at 1.59 crores. So far over 26 lacs new BPL connections provided during this period considering all RE schemes. Further 1.5 lac BPL connection will be effected by May'16.
13. Customer care service has shown appreciable improvement with 100% coverage of spot billing facility to Low Voltage domestic and commercial customers. On-line payment system introduced for all L&MV consumers. Consumer can pay against their energy bill through All Time Payment (ATP) kiosk at 150 locations from 8 A.M to 8 P.M every day. Interactive Voice Response System (IVRS) has been introduced for complaint registration and bill related queries by the consumers introduced in WBSEDCL.
14. WBSEDCL successfully completed the Renovation & Modernization works of 35 years old Jaldhaka Hydel Project along with addition of one new unit of 9 MW at Stage-I, commissioned in August 2012.
15. Lodhama Interconnection Scheme i.e. connecting Lodhama River with the previous system of Rammam Stage-II H.P. for conveying additional water through a new tunnel for augmentation of generation of Rammam Stage-II H.P was commissioned in Jan'13. This enhanced the generation of Rammam Stage-II by approximately 30.86 MU per year.
16. Massanjore Hydel Power Station (4 MW) was revived, renovated and re-commissioned after eleven years.
17. The Detailed Project Report (DPR) of Turga Pumped Storage Project (1000 MW) in the district of Purulia has been completed. The DPR has been submitted to CEA for techno-economical clearance. Process for acquisition of Forest land for the project has been started.
18. The work of preparation of Pre-feasibility Report of Bandu Pumped Storage Project (1000 MW) in the district of Purulia has been completed.
19. The detailed project reports of three hydroelectric projects i.e. Teesta Low Dam I&II Hydroelectric Project (81 MW), Teesta Intermediate Hydroelectric Project (84 MW) and Rammam Stage-I Hydro electric Project (48 MW) in the district of Darjeeling have been completed. Moreover, the prefeasibility report of Teesta Low Dam V Hydroelectric Project (80 MW) in the district of Darjeeling has been completed. An agreement between Govt. of West Bengal, NHPC Ltd. and WBSEDCL has been signed for developing these four projects by NHPC Ltd.

20. In the generation sector, a 250 MW Thermal power Unit has already been commissioned at Santaldih in September, 2011 and another 250 MW Thermal Power Unit at Durgapur Projects Limited in October, 2014. Construction of 500 MW each 3rd and 4th Unit of Sagardighi Thermal Power Plant are on the verge of completion. Oil synchronization of 3rd Unit is complete and is expected to be inaugurated by Hon'ble Chief Minister in December, 2015. Commissioning of the 4th Unit is expected by June, 2016. Renovation work of 210 MW (unit No. 5) of Bandel Thermal Power station (World Bank aided) has been taken up and has recently been commissioned in November, 2015.
21. Number of Agricultural Pump Set increased from 1,44,015 on 1st April 2011 to 2,41,250 on 1st April 2015. The pump set connection effected during last one year (October '14 - September '15) is 45,870.
22. In the transmission sector, During May 2011 to November 2015, WBSETCL has added the following transmission system :
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| Nos. of EHV sub-stations | : | 15 Nos. |
| Total transformation capacity | : | 6842 MVA |
| Total transmission lines | : | 1566 Circuit Km. |
- WBSETCL is expecting commissioning of the following transmission system during December, 2015 to May 2016:
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| Nos. of EHV sub-stations | : | 6 Nos. |
| Total transformation capacity: | | 2177 MVA |
| Total transmission lines : | | 381 Circuit Km. |
23. WBSETCL has achieved 22% growth in nos. of sub-station, 50% growth in transformation capacity and 18% growth in transmission line, compared to previous 66 years development, during last five year to meet the 8-10% cumulative annual growth of system demand in West Bengal. WBSETCL is maintaining its Transmission System availability consistently over 99.5% and Transmission system loss around 3%.
24. Transmission Capacity Enhancement through HTLS Conductor: WBSETCL has already completed change of ACSR Panther conductor by HTLS (High Temperature Low Sag) of Malda (PG) – Malda 132 kV D/C line and Jeerat – Dharampur 132 kV D/C line. It has enabled enhancement of power transfer capacity almost double of existing capacity without constructing new transmission line. Change of Conductor by HTLS has already been taken up for: Gokarna – Berhampur 132 kV D/C line, Dharampur – Titagarh 132 kV D/C line and Durgapur – Ukhra 132 kV D/C line.
25. Gas Insulated Sub-station: To reduce the requirement of land for constructing sub-station, WBSETCL has increasingly adopted Gas Insulated Substations (GIS) which requires about 30 % land compared to conventional substation. Already, four (4) nos. 132 kV GIS have been put into operation. Presently, total nine (9) nos. GIS (400 kV : 1, 220 kV : 4 nos., 132 kV : 4 nos.) are under construction stage. Another twelve (12) nos. GIS (220 kV : 4 nos., 132 kV : 8 nos.) have been approved and to be taken up shortly. WBSETCL has taken in-principle decision that henceforth all EHV sub-stations would be

GIS type considering that cost of GIS is not so high compare to normal sub-station and to minimise the land usage.

26. First ever Policy on Co-generation and Generation of Electricity from Renewable Energy Sources has been launched in June, 2012.
27. A number of initiatives have been taken by the State Government in the field of renewable energy specially on solar energy.
 - A state-of the art Solar Dome will be constructed at the Eco Park, Rajarhat. It will house a marine aquarium, dome theater, viewing gallery, integrated solar PV power Plant with grid connection and emergency battery back-up.
 - Work has been initiated to set up a 10 MW Canal Bank Solar PV power project along Teesta Canal Fall Stage II H.E. in Uttar Dinajpur District with Rs.69.74 cr. project cost. Besides, three other 10 MW solar PV power plants has been planned to be taken up at Santaldih and Chharrah in Purulia district and Mejia in Bankura district during 2015-16.
 - The State Government is also taking up an ambitious project of setting up 1200 MW (4 x 300MW) grid connected SPV power project which is proposed to be linked up with upcoming 1000MW Turga Pump Storage project in Purulia District. The Ministry of New & Renewable Energy has recommended this project.
28. The State power utilities have received a number of awards during this period. WBSEDCL has been proud winner of "Power India Excellence Certificate" for Customer Satisfaction and Quality Service from India-Tech Foundation, Mumbai in 2011 & 2012. WBSEDCL has received "Award of Excellence" by Indian Chamber of Commerce at New Delhi for 5 consecutive years from 2011 to 2015. WBSEDCL also received "Skoch Digital Inclusion Award, 2012" for Reforms & R-APDRP, "Best Innovation" winner in IPPAI Power Awards in 2014, "REPA State Awards 2015" for best "State of India in Rural & Remote Area Electricity Access" and award for "Best Hydro Power Generator" for Rammam Hydel Project in 16th Regulators and Policy Makers Retreat 2015 organised by IPPAI on 3-6 September 2015 at Goa.
29. As a significant achievement, WBSETCL enjoys a credit rating of "A" (stable) assigned by independent rating agencies CARE (Credit Analysis & Research Ltd.) and India Ratings & Research for long term bank facilities/bond instruments and issuer rating. Further these agencies have assigned highest rating (A1) to WBSETCL for short term loans. In recognition of its continuing quest for performance excellence, WBSETCL has been adjudged to be the winner of 'Power Line Awards

2012' in the category of 'Best Performing Transmission Company'. The coveted awards were given away by Hon' Minister of Power, ShriSushil Kumar Shinde on 15th May 2012 at New Delhi.