

**Minutes of the Kick-off meeting of WEC-IMC Core Group on
“Transmission & Distribution” held on 17.11.09 at POWERGRID,
Gurgaon**

The kick-off meeting of WEC-IMC Core Group on “Transmission & Distribution” for preparation of Report to be presented in the India Energy Congress to be held on Feb 1-2, 2010 was held on 17.11.09 at POWERGRID, Gurgaon. The list of participants is enclosed at ***Annexure-1***.

ED (SEF, CE & IT), POWERGRID welcomed the participants and informed that WEC-IMC in association with Ministry of Power is working towards sustainable growth in energy sector. Towards this, in the meeting taken by Secretary (Power) held on 21.05.09, it was decided that relevant organisations of WEC-IMC may patronise and support specific activities of its core business. POWERGRID identified as nodal agency for WEC-IMC activities in “Transmission & Distribution” area. WEC - India Energy Congress to be held on Feb 1-2, 2010 in which a report to be presented on “Transmission & Distribution” status, future plans, technology and other challenges etc. in India. He emphasized that purpose of this Core Group meeting is to discuss the contents and structure of the report as well as work responsibility of the core group members, timelines etc. so that a well informed/documented report can be prepared and presented in the ensuing India Energy Congress.

Thereafter, the agenda items were taken up for discussion and the brief on the deliberations is as under:

- POWERGRID made a presentation on the proposed structure and content of the report as well as work sharing responsibility among the Core Group members. A copy of the presentation is enclosed at ***Annexure-2***. Shri J.K. Mehta, WEC informed that in the meeting taken by Secretary(Power), it was decided that in the India Energy Congress to be held on Feb 1-2, 2010, a brief report on various fields of Power Sector including “Transmission & Distribution” may be presented which shall include existing facilities, future requirement & expansion plans/programmes, how to achieve the targets, technology integration etc. so that the participants can have a feeling about Indian Energy sector and have confidence in the system.
- Member(PS), CEA emphasized that report should highlight briefly about the existing situation in Transmission & Distribution, quantum of works in future to meet the demand, technology addressing various issues like right of way, less cost/MW, land acquisition/utilisation etc., manufacturing capability, construction technique etc.
- Director(Projects), POWERGRID mentioned that extensive works and upgradation of distribution network were carried out by Rajasthan / Tamil Nadu. Therefore, suggested that in the Core Group, member from Rajasthan Distribution Company/ Tamil Nadu Distribution utility may be invited. It was decided that POWERGRID may invite member from above organizations to be the member of Core Group.
- It was decided that structure of the report shall be as under:

- a) **Chapter-1: Generation-demand scenario** which shall include :
- Present capacity & demand, energy generation and requirement
 - Future capacity addition programme and demand scenario in next 10 years
 - Location of future projects.

It emerged that lot of information is available in the 11th Plan/12th Plan Report of CEA and same can be used. This Chapter shall be prepared by NTPC/WEC in association with CEA.

- b) **Chapter-2: Transmission** which shall include:
- Present status of transmission in terms of ckt. kms, voltage level, substations, capacity, National Grid
 - Future plans of network expansion, physical target in terms of ckt. km, substation capacity, National Grid capacity
 - Considerations for transmission development, Issues and Challenges
 - Technology integration to mitigate challenges like reduction of footprint of tower, less land for substation etc. through technology such as 765kV/1200kV transmission system, ± 800 kV 6000MW HVDC system, compact/pole tower, multi-ckt. tower, High Surge Impedance Loading Line, High Temperature Low Sag conductor, FACTS, GIS substation, substation automation, phase shifting transformer, control of short circuit level, layered system etc.
 - Technology in operation & maintenance towards high availability

This Chapter shall be prepared by POWERGRID under the guidance of Member(PS), CEA

- c) **Chapter-3: Distribution** which shall include:
- Present status of distribution system in terms of GIS mapping, mapping of asset, AT&C losses
 - IT integration like SCADA/DMS, consumer indexing
 - Load management/Demand side management
 - Open Access at consumer level
 - Future plans of improvement in efficiency, reliability indices, service quality
 - Smart Grid in distribution

This Chapter shall be prepared by NDPL/BSES

- d) **Chapter-4: Grid Management** which shall include:
- Present technology and defense mechanism like UVLS, islanding etc. in Grid management towards grid security
 - Technology towards enhancement of grid security through modernisation of existing infrastructure and integration of emerging technology like Smart Grid

This Chapter shall be prepared by NLDC/SO -POWERGRID

- e) **Chapter-5: Regulatory function** which shall include:
- How the Power sector is regulated through instrument like Grid Code, Tariff Policy, Open Access etc.

This Chapter shall be prepared by Chief Engr(SP&PA), POWERGRID

- f) **Chapter-6: Benchmarking of best practices** in India and abroad
 - Benchmarking in Transmission – to be prepared by POWERGRID under the guidance of Member(PS), CEA
 - Benchmarking in Distribution – to be prepared by NDPL/BSES
- Timeline of preparation of report was agreed as under:
 - Members will prepare their part of the report by end of Nov, 2009 and send it via e-mail: yksehg@powergridindia.com
 - 2nd meeting of the Core Group shall be held on 10.12.2009 to discuss the report and their integration
 - Draft report to be prepared by POWERGRID in association with CEA and mail to all members by 25.12.09 for their observations
 - Comments to be sent by 04.01.2010
 - Final meeting to be held on 11.01.2010
 - Final report to be sent to WEC-IMC secretariat by 18.01.2010 for Printing & other activities for distribution of Report
- Shri Mehta, WEC suggested that in order to make a seamless integration of various Chapters to be prepared by different members, hiring of a consultant/expert for this may be explored. POWERGRID agreed to the same.

Meeting ended with vote of thanks to the Chair.

1st meeting of WEC-IMC Core Group meeting on “Transmission & Distribution” held on 17.11.2009 at POWERGRID office, Gurgaon

List of participants

Sl No.	Name	Organisation
1.	Shri V. Ramakrishna, Member(PS)	CEA
2.	Shri Ravinder, Chief Engr.(SP&PA)	CEA
3.	Shri I.S. Jha, Director(Projects)	POWERGRID
4.	Shri Y.K. Sehgal, ED(SEF,CE & IT)	POWERGRID
5.	Shri Pankaj Kumar, GM(SEF)	POWERGRID
6.	Shri J.N. Barman	NCR Planning Board
7.	Shri Mithun Chakraborty	NDPL
8.	Shri J.K. Mehta, GM	WEC-IMC/NTPC
9.	Shri SPS Virk, DGM	WEC-IMC/NTPC
10.	Shri Sanjay Sharma, CM	POWERGRID
11.	Smt. Vineeta Agarwal, CM	NLDC/POWERGRID
12.	Shri Mukesh Khanna, CDE	POWERGRID