

## **Terms of Reference for**

### **Initiative and activities related to Preparation of Report on Transmission & Distribution (for presentation in India Energy Congress to be held on Feb 1- 2, 2010)**

#### **World Energy Council Indian Member Committee**

Nodal Organisation: Power Grid Corporation of India Ltd.

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### **1.0 Background**

Indian member Committee of World Energy Council is working pro-actively with the support of Ministry of Power and its member organization in actualising sustainable growth in the energy sector. During the meeting of WEC-IMC in the Ministry of Power held on 21<sup>st</sup> May, 2009, the business plan of WEC-IMC for the year 2009-10 was presented. It was decided that for effective organization and implementation of WEC-IMC Business Plan, relevant member organizations of WEC-IMC may patronize and support specific activities of WEC-IMC related to area of its core business. Accordingly, it was decided that POWERGRID may be the nodal organization for WEC-IMC activities related to Transmission & Distribution.

### **2.0 Objectives**

The initiative on Transmission & Distribution(T&D) shall be focused to facilitate the process for development of transmission and distribution infrastructure in India for transfer of power from various generation projects and ultimately delivered to the consumers efficiently and at affordable price. The activities include organizing workshops/seminars in Transmission & Distribution to compile relevant statistics, status and future growth plans in Transmission & Distribution. Activities also include Benchmarking with global practices which is to be done in association with other organizations in India and abroad working in this area duly facilitated by WEC-IMC. The main objective of this initiative is to prepare a report on Transmission & Distribution identifying the growth plans, concerns in T&D development, integration of emerging technologies, benchmarking of best practices globally in this field.

### **3.0 Scope of work**

Under the guidance and leadership of the nodal officer nominated by POWERGRID, a Core Group for carrying out studies and preparation of report on Transmission & Distribution shall be formed with nominated executives from various member organization of WEC-IMC. The above core group shall compile relevant statistics and studies on future plans in the field of Transmission & Distribution, identify the technology development, benchmarking of best practices and address the issues for reliable and adequate T&D system. Brainstorming shall be done through sponsored studies, meetings, workshops, seminars and other such initiatives to achieve above targets. The Core Group would then

prepare a white paper on the subject which may be presented by POWERGRID at the next India Energy Congress to be held on 1<sup>st</sup> & 2<sup>nd</sup> Feb, 2010. The Secretariat of WEC-IMC shall extend its support for coordinating this initiative convening the meetings and follow up with the concerned for relevant inputs.

#### **4.0 Approach to the Work**

It is proposed that a Core Group in T&D may be formed by end of October 2009 and a kick-off meeting of the Group may be organized by WEC-IMC in the 1<sup>st</sup> week of November, 2009. Major topics of the meeting shall include the following:

- Consideration for T&D development
- T&D Growth plans in India for next 20 years
- Technology integration
- Benchmarking of best practices in the field of T&D globally
- Grid operation issues/development of “Smart Grid”

Data and information collected through identified representatives in November and a workshop to be organized in December to brainstorm on various issues and challenges and proposed recommendations for facilitating development of efficient Transmission & Distribution network in the country. Thereafter, a draft report shall be prepared and circulated by mid December and finalized for printing by end of December 2009. The report can then be published for presentation by POWERGRID in the India Energy Congress to be held in Feb, 2010.

#### **5.0 Timeline and Budget**

The timeline of the above activities including structure of the report and estimated budget for this initiative shall be worked out during the kick-off meeting of the Core Group of T&D.

#### **6.0 Deliverables**

The report to be published and presented during the India energy Congress on 1<sup>st</sup> and 2<sup>nd</sup> Feb, 2010 and a view taken on the further course of action in this field on a longer term perspective depending on the suggestions and recommendations in the report.

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