

EXECUTIVE SUMMARY

1. INTRODUCTION

Power is a critical element of infrastructure for economic development and for improving the quality of life, therefore the reach of electricity should be to all the citizens of the country particularly to the poorest. Accelerated development of Renewable Energy sources such as sun, wind, water and biomass will have a vital role in the development of power infrastructure, for sustainable development.

Government of India has decided to provide 24 x 7 power to all the citizens of the country. The Government has a great mission of exploiting the Renewable Energy Sources in the country to an optimum level. In line with this mission it has multifaceted plans to tap the huge potential of unharnessed Renewable Energy Resources in an effort not only to supply 24 x 7 power to all but also to reduce the GHG emissions. These plans include about 100 GW of solar power, 60 MW of Wind power, 5 MW of power from small hydro plants and 10 MW from Biomass and Bagasse cogeneration plants in order to achieve 175 GW target for installed Renewable Energy capacity by 2022 .

2. RENEWABLE ENERGY SCENARIO IN INDIA (OVERVIEW)

Power generation from renewable sources is on the rise in India, with the share of renewable energy in the country's total energy mix rising from 13% as on 31.12.2014 to 20.8% as on 30.11.2018. India has about 72GW of grid connected installed renewable energy capacity as on 30.11.2018. Wind accounts for about 48% of the capacity, with 34.6 GW of installed capacity, making India the world's fifth-largest wind energy producer. Small hydro power (4.5 GW), bio-energy (8.8 GW) and solar energy (24.0 GW) constitute the remaining capacity .

3. STRATEGY

All the State Governments in the country have notified their respective policies on Renewable Energy Sector and all the State Regulatory Commissions have announced specific Policies for renewable energy projects taking into account availability of various renewable resources. With the increasing importance of Renewable Energy, these provide as the basic enabling framework and guidance in the respective territory / locations. IREDA had brought out a Compendium of Policies issued by MNRE and State Governments on Renewable Energy Sector in India in the year 2010 and 2014, which was compiled by the expert team of Central Board of Irrigation & Power. Since then, a lot of new policies as well amendments to the existing orders have been issued in respect of renewable energy sources and more in particular for solar after the Government of India launched Jawaharlal Nehru National Solar Mission (JNNSM). Even a few of states have for the first time brought out their Policy on RE generation. The need for a comprehensive and authenticated compilation of the relevant information was observed by MNRE and IREDA. CBIP offered its services for preparation of a Compendium of Policies orders issued by MNRE and State Governments on Renewable Energy Sector in India on Renewable Energy to act as an aid to Investment Promotion in the area of Renewable Energy Sector.

The compendium has been prepared by CBIP experts having rich experience in the field. The experts worked out the following strategy for Compendium:

- **Collection of Information/ Data**

The data/information in respect of Policies orders issued by MNRE and State Governments on various Renewable Energy sub-sectors, e.g. Solar Energy, Wind Power, SHP, Bagasse Cogeneration, Bio-mass Power, Waste to power etc for their respective jurisdiction was collected by visiting the websites, by personal contact, phone calls, multiple emails, follow-ups, personal visits etc., to have authenticated information.

- **Compilation**

The collected Information/ data were available in different forms and formats. It was re-typed and edited for corrections and completeness to make these suitable for inclusion in the Compendium. Copy of all the original Policies issued by MNRE and state governments has been compiled for detailed reference at any stage which form part of the compendium. More than 4000 pages of these orders were involved.

- **Summary of Individual Policy / Combined Summary of Policies Orders for each Sub-sector**

Summary of each individual order in 3-4 pages has been prepared in a standard format for easy understanding.

Further a combined comparative summaries for solar and wind energy have been prepared wherein salient points have been taken for easy understanding and comparison. This combined summary will enable to make fast assessment of the various Policies.

4. USEFULNESS OF THE COMPENDIUM

The compendium intends to provide basic knowledge to a developer about the various aspects to be kept in view while formulating a project report for generation from renewable energy sources. The eligibility and qualifying criteria, statutory clearances required, process of allotment of the project, land allotment, power evacuation facilities, wheeling and banking charges, sale of power and all other aspects as laid down in the policies issued by various state Government for renewable sector including the tariff structure applicable in various states, the framework for grid connectivity and the incentives for different RE sources and financial aspects etc. and all those features which a developer should know have all been brought out in this compendium.

For compilation of this compendium, all out efforts have been made to collect all the Policies, making summary of individual order and then preparing a combined summary for Solar and Wind Policies. It was a challenge to make summary of these techno-legal documents in 10% space. Although every care has been taken by CBIP experts but there may still be some short comings due to complex and challenging task. In case of any doubt original orders may be referred to. Suggestions and feedback is welcome for further improvement of this document. It is expected that all the stakeholders shall find this document to be useful and handy.