



Press Release

## **BSES Rajdhani Power Limited (BRPL) joins hands with TERI for a strategic association to increase roof top solar PV penetration in India**

*The association will enable both the parties to work jointly for achievement of common goals and objectives of Grid connected Rooftop Solar PV in Delhi*

**New Delhi, July 6, 2017:** The Electricity Act, 2003 aimed to bring in a paradigm shift in the functioning of the power sector, distancing the sector from direct government control, corporatizing the sector and bringing it under the control of independent regulators. To minimize the distance and develop a strategic association to work jointly for achievements of common goals and objectives, The Energy and Resources Institute (TERI) has collaborated with BSES Rajdhani Power Limited (BRPL). The partnership will enable TERI to carry out a study for technical challenges and solutions for renewable energy grid integration.

Expressing his views on the joint collaboration, **Mr. A K Saxena, Director, E&F Division, TERI**, said, “BRPL being one of the proactive Discoms in the country, we value this cooperation and I believe the outcomes of our study would enable informed decision making for large scale adoption of rooftop solar into their distribution grid.”

The growing penetration of solar roof top systems into the distribution system may cause undesired effects in the operation of the distribution system. As a part of the collaboration, TERI will look into the cases of a few distribution companies of the country with a view to analyze the emerging technical challenges in the context of increasing roof top solar PV penetration. The growing penetration of solar roof top systems into the distribution system may cause undesired effects in the operation of the distribution system in many ways. Therefore, TERI will be undertaking a study to understand the challenges that may arise with higher penetration of solar rooftop systems in distribution grids.

Showcasing his thoughts on the expected outcome of the study, **Mr Amal Sinha, CEO, BRPL**, said, “BRPL is prepared to accept the challenges of incorporating large scale rooftop solar and electric vehicles into distribution system rather opposing the same.”

TERI, along with BRPL, will work jointly for the achievement of common goals and objectives related to promotion of grid-connected solar rooftop PV, energy storage system, electric vehicles and smart grid initiatives and other relevant area for achievement at utility level. TERI and BRPL will identify and finalize different areas of carrying out the studies related to rooftop solar PV development for assessment of various issues, including technical and commercial issues, with higher penetration of PV into distribution grid. The technical studies shall be conducted with objective of assessment of technical issues related to loading of feeders, static and dynamic voltage regulation, power quality, protection, etc. that may arise with higher penetration of solar rooftop systems in distribution grids.



As a first step of the study, TERI will select suitable feeders based on the consumer mix, loading pattern and existing in the distribution. The necessary data for this purpose would be required upfront from BRPL. Based on this, feeder selection would be done in consultation with BRPL for detailed studies. The collaboration will ensure ease of implementation of rooftop solar PV system within BRPL area and improving power quality for the consumers. The study is to be expected to be completed in about a year.

### **About TERI**

TERI is an independent, not-for-profit research institute focused on energy, environment, and sustainable development and devoted to efficient and sustainable use of natural resources. Since its inception in 1974, TERI has emerged as an institution of excellence for its path-breaking research, and is a global brand widely respected by political leaders, policy makers, corporate entities as well as the civil society at large.

### **About BRPL**

BSES Rajdhani Power Limited (BRPL) is a joint venture between Reliance Infrastructure Limited and Govt of NCT of Delhi with a 51%:49% shareholding. BRPL along with its sister company BSES Yamuna Power Limited (BYPL) supplies electricity to two-thirds of the national capital.

Panning a geographical area of around 750 sq kms, BRPL is the largest of the three private distribution companies (discoms) in Delhi. The company supplies electricity to over 23 lakh customers, covering a population base of over 92 lakhs in South and West Delhi.

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