November 13, 2019

Press Release

BSES One Of The First Discom in India To Launch Block Chain Technology Platform

- **It can enable consumers, even without roof-top solar, to trade power between themselves**
- **Big advantage for consumers as Block Chain enabled solutions will add to the speed as it will be expanded for Group Net Metering, Virtual Net Metering, EV Charging and Virtual Power Plant applications**

New Delhi: BSES Rajdhani Power Limited (BRPL) has partnered Australia's Power Ledger, a global leader in block-chain technology, to launch consumer-to-consumer (peer-to-peer) solar power trading on a trial basis. With this, BRPL has become the first discom in the country to use Power Ledger's block chain based platform for peer-to-peer (P2P) solar trading. A feasibility study has been successfully undertaken. The offering will rolled-out, once the regulatory approvals are in place.

Using Power Ledger's block chain-based P2P platform, the pilot project will initially be carried-out amidst the existing and select group of gated community (CGHS) SOLAR consumers in Dwarka who generate around 5-6 MW of solar-power. These consumers will be able to trade solar power their neighboring apartments and buildings using this platform rather than letting it spill-back to the grid.

Benefits – Consumers

This market based mechanism is a win-win for all-stake holders. A unique aspect about Power Ledger's block chain-enabled P2P platform is that it can be used by any consumer with rooftop solar to further monetize their investment. Consumers with rooftop solar infrastructure can sell their excess solar energy to their neighbours even if they don't have rooftop solar, using energy trading platform. Thus, even consumers who don't have roof-top solar will benefit by purchasing cheaper and cleaner electricity, compared to the slab-rate of the discom, which as consumer would otherwise have to pay.

Benefits – Discom

Peer to peer trading of surplus solar power amongst the consumers connected to the same distribution transformer is expected to result in optimal loading of the distribution transformer (DT). This will lead to an increased efficiency and reliability of power supply. Further, the platform will give BRPL access to a cost-effective energy alternative during the times of peak

demand pricing. Apart from these BRPL will also benefit by not having to purchase solar energy exported to the grid, gain revenue through transaction fee and wheeling charges and also create and actively engaged proactive two-way positive relationship with its consumer base.

Commenting on the tie-up, Mr Amal Sinha, BRPL CEO said, "BSES has been embracing emerging technologies, especially in the space of demand side management and renewables. This partnership is yet another testimonial to these efforts"

"With the exponential growth in our economy and production, the ability to generate clean energy and utilise it across India without the need for a fully centralised grid is critical. Realising the importance of distributed generation, we have already built an extensive renewables infrastructure, and this trial with Power Ledger will help us fully utilise that energy. Basis the outcome, BRPL and Power Ledger will expand the trial to include Block chain enabled solutions for Group Net Metering, Virtual Net Metering, EV Charging and Virtual Power Plant applications in the near future" - **added Mr Sinha.**

No Special apparatus required

There is no specific hardware device or investment required to sign up to the Power Ledger platform. This technology is a transactive layer that utilises close to real-time data from smart meters to facilitate the P2P trading environment. All that is required is access to solar power infrastructure - whether that's solar power panels installed on the roof of their own house, or solar power infrastructure within their community.

"Although we've already initiated several successful peer-to-peer energy trading projects across the globe, this partnership with BSES provides an opportunity to really scale to an enterprise-style application and provide a guide for policy development in Delhi," **said Power Ledger head of business development and sales, Mr Vinod Tiwari.**

"Since our inception, our aim for our P2P platform has been to support energy retailers in better managing their demand and supply, and encourage renewable energy adoption. This project will be a working example of these concepts in action," **added Mr Tiwari**.

Global trends

India's energy-consumption growth is currently faster than that of all major economies. In efforts to curb further increases in conventional energy sources, the Indian Government's Ministry of New and Renewable Energy has set a target of installing 175GW of renewable energy capacity across the country by 2022. The 2022 target includes installing 40GW worth of grid-connected rooftop solar capacity in Delhi and surrounding districts.

Many countries have identified energy trading as a key component of promoting the uptake of renewables and meeting the Paris Climate Agreement. The Thailand Government has identified block chain-based P2P trading as a key component of their Power Development plan. Power Ledger's P2P energy trading platform is already being deployed in several countries globally including Australia, Thailand, Japan, the United States, Malaysia, France and Austria.

About Power Ledger

Power Ledger is an Australian technology company that has developed a blockchain-enabled renewable energy trading platform. Power Ledger's technology won Sir Richard Branson's global Extreme Tech Challenge award and co-founder Dr. Jemma Green is a finalist in the EY World Entrepreneur Of The Year awards. The company has built a series of products to enable energy trading, renewable asset financing and more efficient carbon and renewable energy credit markets.

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 over two-thirds of the national capital. Spread over a geographical area of around 750 sq kms, BRPL is the largest of the three private distribution companies (discoms) in Delhi, supplying electricity to over 25 lakh customers across South and West Delhi. Together, BSES discoms supply electricity to around 42 lakh customers.

BRPL & BYPL are premier distribution companies and Joint Ventures between Reliance Infrastructure Limited and GoNCT.

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