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BSES Commissions India's 1st 'Smart Managed EV Charging Station'

DERC Chairperson inaugurates the innovative project in East Delhi

- **BYPL managed smart EV charging station can charge five EVs simultaneously**
- **Funding assistance from Nordic Innovation, an organisation promoted by Nordic countries to support innovative green technologies and projects**
- **EV charging station can be integrated with BYPL's SCADA System and controlled remotely**
- **Help in managing variations in the power demand through demand response compatibility**
- **Consumer can locate the EV charging station through mobile app and pay online**

New Delhi: BSES is committed towards green and sustainable initiatives. In line with the commitment towards building a robust electric mobility eco-system, BSES Yamuna Power Limited (BYPL) has commissioned India's first 'Smart Managed EV Charging Station' at Mayur Vihar Extension – I.

Supported by the Nordic Innovation, an organisation promoted by the governments of Nordic countries, and executed by Fortum Charge & Drive, this will be the 1st BYPL operated and managed Smart EV Charging Station. It was inaugurated by the Hon'ble DERC Chairperson Justice Shabihul Hasnain 'Shastri' and DERC Member Dr A K Ambasht. Other dignitaries present on the occasion, included Mr A K Singhal (Advisor & Former Member, DERC), Dr. Jukka Holappa (Commercial Counselor & Country Director – India, Business Finland) and officials from Fortum Charge and Drive. BSES team was represented by Mr V S Verma (Director, BSES), Mr Amal Sinha (Director, BSES), Mr Amarjeet Singh, (CEO BYPL), Mr. Rajesh Bansal (CEO BRPL) and senior discom officials.

This conveniently located smart managed EV charging station, which can charge five e-vehicles simultaneously, is co-located at BYPL's 11 kV Sub Station building in Mayur Vihar Extension Phase I. The carefully selected site is a gateway to Noida and can be easily accessed by EV users and EV fleet operators. Depending on the response, more such smart EV charging stations will be rolled-out in South, West, East and Central Delhi.

Demand Response compatible smart charging station

Unlike conventional EV charging stations, this 'smart managed EV charging station' can be integrated with BYPL's SCADA system – the state-of-the-art nerve system of the discom - and managed remotely. It is also Demand Response (DR) compatible, which is an important demand side management (DSM) tool for utilities the world-over to flatten the load curve and 'peak shaving' of the electricity load during certain times.

The growing incidence of the EV Charging load is adding to the peak power demand of the power utilities. Such DR compatible smart managed EV charging stations will increasingly play an invaluable role in managing this power load through automated and efficient management of the distribution network in both peak and off-peak hours. For example, during the time of peak power demand or an unforeseen power exigency, the power-supply to the EV charging station can be optimised and the

extra power diverted to the nearby residential and essential establishments without curtailing the functioning of the EV charging station.

Announcing the innovative EV charging station a BSES spokesperson said, “BSES is gearing up to play a major role in the emerging EV sector. Deployment of this smart managed EV charging station is a very exciting moment for us and we are working closely with our strategic partners to set up many more innovative solutions for our consumers. This partnership with Nordic Innovation and Fortum Charge is a testimonial to these efforts. Through this association, we at BYPL aim to reiterate our commitment to energy efficiency and sustainable growth. We plan to install more such smart public EV charging stations in the future.”

Selection of execution partner for innovative project

This Smart Managed EV Charging Station, initially a pilot, has been set-up under partial funding from Nordic Innovation, an organisation promoted by the Nordic countries under the auspices’ of the Nordic Council of Ministers.

Digital Experience

The smart charging station being set-up is truly smart and equipped with an ‘analytic platform’, which will help Electric Vehicle (EV) owners get a seamless digital experience. The EV chargers at the outlet are being integrated with a mobile application that enables end consumers to locate, pre-book an appointment and even pay at the EV Charging Station. It will be available on both Android & iOS platforms.

Speaking on the partnership, spokesperson of Fortum Charge & Drive India Pvt. Ltd. said,“We are happy to collaborate with BSES Yamuna Power Limited on the country’s first of its kind load balancing pilot project to shave the power demand during peak hours. Fortum Charge & Drive has been working closely with ecosystem partners across the country to facilitate EV charging infrastructure and create solutions to operate with minimal restrictions. This project will augment our efforts in laying a strong foundation to enable smooth functioning of EVs across the country by creating a widespread network of charging solutions that the vehicle owners and operators can rely on.”

About BYPL

BSES Yamuna Power Limited (BYPL) is a joint venture between Reliance Infrastructure Limited and Govt of NCT of Delhi with a 51%:49% shareholding. It has brought about a record reduction in AT & C losses - from 61.2 % in 2002 to ~ 7%. BYPL supplies electricity to around 18 lakh consumers in East and Central Delhi. BYPL, along with its sister concern BRPL has a consumer base of around 46 lakh covering a population base of about 1.80 crore in Delhi.

About Fortum Charge & Drive

Fortum Charge & Drive Supports a network of more than 6,000 smart charging points in Nordic countries, of which more than 30 percent are DC quick chargers, besides providing access to more than 200,000 charging points through our in-house aggregator model under brand “Plugsurfing”. Since piloting in India in October 2017, Fortum Charge & Drive India is expanding the DC fast-charging



network in the country. Fortum is presently operating in seven major Indian cities, 115 DC Fast charging points –across 8 states & 12 cities and growing. Fortum Charging network includes both 15/20 KW DC001 chargers as well as 50/60 KW CCS/CHAdeMO chargers catering both to EV like Mahindra e-verito/Tata Tigor and Mercedes EQC, BMW i3, Audi e-Tron, Hyundai Kona, MG ZS, Tata Nexon etc. We also offer a cloud solution as licensed offering to EV charging-service providers and infrastructure investors. The SaaS architecture enables flexible, pay-as-you-go models, and white/grey label App alternatives. This service is configured to suit a wide array of custom requirements and is hardware-agnostic across different types of chargers.

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

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