Florida microgrids new delhi

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Delhi Power Minister Satyendar Jain on Friday inaugurated the city"s first urban microgrid system set up at Shivalik in Malviya Nagar that will save 115 tonnes of carbon dioxide annually.

The microgrid (Solar + Battery) system is set up under the Indo-German Solar Partnership Project (IGSEP). The system is capable of ensuring continuous supply from solar and stored battery energy saving from any outages, said a spokesperson of power discom BSES.

The project is commissioned by the Federal Ministry for Economic Cooperation and Development (BMZ) in Germany, which has signed an agreement through GIZ India, with the Ministry of New and Renewable Energy (MNRE), Government of India, said the BSES spokesperson.

Justice (retd) Shabihul Hasnain, the chairperson of Delhi Electricity Regulatory Commission, Norbert Barthle and Flachsbarth, parliamentary state secretaries, Federal Ministry of Economic Cooperation and Development, Germany, Winfried Damm, head of energy, GIZ India and Julie Reviere country director, GIZ India, and BSES group director Amal Sinha were present on the occasion.

Set up at Rs 5.5 crore, the microgrid (Solar + Battery) system consists of 100 kilowatts (kWp) solar and 460 Kilowatt-hour (Kwh) lithium ion battery energy storage system (BESS). The microgrid offers other unique benefits, including reliable clean power-back for up to two hours, and production of about 1.5 lakh units of clean energy per annum.

The smart grid system is set up under the Indo-German Solar Partnership Project (IGSEP). The system is capable of ensuring continuous supply from solar and stored battery energy saving from any outages, said a spokesperson of power discom BSES.

The smart power grid system uses solar panels to generate electricity and energy at peak performance. The Delhi government hopes it will decongest the power network and ensure an uninterrupted power supply to Delhi. "This state-of-the-art intervention of the Delhi Government is a revolution in the power sector and should be replicated on a larger scale. It will help to stabilise the power grid during high electricity demand by efficiently distributing the load.

These solar panels and charging stations are efficient and look good, which makes them different," Jain said, adding that the microgrid solar power station and charging station is a source of learning for everyone. Justice (retd) Shabihul Hasnain, chairperson of Delhi Electricity Regulatory Commission, Norbert Barthle and Flachsbarth, parliamentary state secretaries, Federal Ministry of Economic Cooperation and Development, Germany, Winfried Damm, head of energy, GIZ India were among those who attended the event.

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The urban microgrids will significantly increase the reliability and flexibility of the distribution network. At the same time, consumers can avoid installing UPS systems/generators and receive green power

Delhi power minister inaugurates BSES first-of-its-kind Urban Microgrid (Solar + Battery) System in Delhi at Shivalik, Malviya Nagar today. With the growing integration of renewable into conventional energy sources, microgrids will play a critical role in enabling the transition and increasing the reliability of the power supply. Set-up at a cost of around Rs 5.5 crore, the Microgrid, is a grid-connected system consisting of 100 KWp Solar PV and 466 kWh Lithium-ion battery Energy Storage System (BESS).

Commenting on the inauguration of Delhi’s first LV micro-grid, a spokesperson of the Reliance Infrastructure led BSES stated: "BSES is committed to energy efficiency, adoption of green and new technology and smart procurement initiatives that will result in optimised solutions for our consumers. Commissioning of this microgrid is a major development that has the potential to be a game-changer in the power distribution sector" added the spokesperson.

The microgrid helps reduce the load on a transformer and relieves pressure on the low-voltage grid (by boosting the share of renewable energy), thereby increasing reliability and increasing flexibility. When a microgrid is deployed on a larger scale, it will become a cost-effective alternative for energy supply by reducing dependency on expensive and conventional power plants. They will also help increase the share of renewables, along with renewable power obligations (RPOs) for discoms.

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