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Press Release

Delhi's Peak Power Demand expected to Cross 7400 MW Mark This Summer

BSES Discoms fully geared-up for the summer months

Electricity from J&K, Manipur, Meghalaya and Sikkim to light-up Delhi homes

New Delhi: Arrangements have been firmed up by BSES discoms to source adequate electricity to meet the power demand of over 42 lakhs consumers. These arrangements include long term PPAs and banking arrangements with other states including Himachal Pradesh, Uttar Pradesh, Jammu & Kashmir, Meghalaya, Manipur and Sikkim.

BSES discoms will get upto 865 MW (BRPL 550 MW, BYPL 315 MW) of power through banking arrangements. Apart from this, BRPL will also get 100 MW of Wind Power from April 2019. Of this 50 MW is already being received. In case of unforeseen contingencies because of low generation and outages in power plants, the discoms will purchase short-term power from the exchange.

Record power demand in 2018

Delhi's peak power demand during the summers of 2019 may clock 7400 MW. Last summers, they breached the 7000 MW for the first time – peaking at 7016 MW. Peak power demand in BRPL' area of South and West Delhi, which had reached 3081 MW during the summers of 2018, is expected to touch around 3200 MW this year. In BYPL' area of East and Central Delhi, the peak power demand which had reached 1561 MW last year is expected to touch around 1640 MW.

This expected peak power demand of 7400 MW is an increase of over 250% over the peak power demand of 2879 MW in 2002. It is interesting to note that Delhi's peak power demand is substantially more than that of other cities. It is not only more than the power demand of Mumbai and Chennai put together but also thrice than that of Kolkata.

Strengthening of the Distribution Network

During the year, BSES discoms have invested substantial resources to strengthen the network. A large part of the distribution schemes, which were considered necessary to further strengthen the distribution system have already been completed, the balance are on track to be completed. This has made the distribution network more robust for taking the additional power load during summer months.

Load Forecasting

Accurate demand (load) forecasting is critical for reliable power supply. It is done on various parameters like (i) Day-ahead in 96 time-slots, (ii) Intra-day basis and (iii) Medium term (from a fortnight to one year). Among other aspects, weather parameters like Temperature, Rainfall, Clouds , Wind Speed, Wind Direction and Humidity play an important role in accurate demand forecast. Even holidays and random disturbances have an impact on the power demand.

Explaining the use of technology in ensuring reliable power supply, BSES spokesperson said, "To meet today's power challenges and to get a grip on so many varied and dynamic variables, BSES uses a mix of advanced statistical forecasting models, combined with state-of-the-art weather forecasting solutions, including Artificial Intelligence and Machine Learning and rich domain expertise provided by IMD-POSCO. These analytics help us build models, which lead to high accuracy planning and huge saving of man-hours".

"This accurate day ahead, intra-day and medium term demand forecasting is vital for optimal and cost effective planning in ensuring reliable power supply to consumers"**-added the spokesperson**.

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

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