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Press Release

## **BSES Fully Geared-Up For The Winter Months**

### **Delhi's winter peak power demand may go upto 5480 MW, surpassing last year's demand**

New Delhi: Delhi's peak power demand this winter can go upto 5480 MW, surpassing last year's winter demand. Last year, it had peaked at 5343 MW. The peak winter power demand in BRPL and BYPL areas had reached 2020 MW and 1165 MW respectively during last winter. This year, it is expected to reach 2200 MW and 1270 MW for BRPL and BYPL respectively.

Ensuring reliable supply in any season is as much the function of proper power arrangements as also accurate demand forecast and robust distribution network. On all these aspects, BSES discoms are fully geared to ensure adequate power availability during the winter months.

#### Backbone of power arrangements

The back-bone of BSES' power-supply arrangements during the winter-months includes long-term agreements from power-plants; including Hydro and Delhi based gas fuelled generating stations. Additionally, BSES is also receiving 190 + MW of wind power, 25 MW from Waste-to Energy and 70 MW of solar power from SECI. It is also being helped by 90 MW + of roof-top solar power installed on roof-tops in South, West, East and Central Delhi.

Apart from these, BSES discoms are using avenues like "Banking", "Reserve Shutdown", "Power Exchange" and ensuring sufficient "Spinning Reserves" to dispose of surplus power as well as ensuring reliable power supply, as also making arrangements to get power during summer months. In case of any unforeseeable contingency, BSES discoms will buy short-term power from the exchange which is available at economical rates. Adding to these efforts are the advanced load-forecasting statistical and modelling techniques, which are helping the discom accurately forecast the power demand.

Moreover, in view of relatively low demand during the summer months and high pollution levels during winter months, BSES discoms have been progressively reducing their exposure to power from thermal plants of Delhi NCR based Dadri I and Dadri II since April (and completing in by October end) by undertaking 'reverse shutdown'. These are expected to remain in place till March 31, 2020. Between them, BSES discoms' entitlement from these plants is around 1264 MW (BRPL 1027 MW, BYPL 237 MW).

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Peak demand (Winters)	Delhi (MW)	BRPL (MW)	BYPL (MW)
2020-21 (Expected)	5480	2200	1270
2019-20	5343	2020	1165
2018-19	4472	1926	1091
2017-18	4511	1888	1136
2016-17	4168	1758	1259
2015-16	4125	1835	1080

### Surplus Power

BSES discoms will also bank surplus power with hilly states, which need additional power during the winter months. This banked power will be available during the summer months.

BRPL will bank between upto 450 MW with states like Himachal Pradesh, Manipur, Goa and Tamil Nadu. On its part, BYPL is expected to bank upto 100 MW with states like Himachal Pradesh, Meghalaya and Goa from whom it had taken the quantum during the 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, Cloud Coverage, 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, BSES uses a mix of advanced statistical forecasting models using complex algorithms, combined with state-of-the-art weather forecasting solutions, including Artificial Intelligence and Machine Learning."

"Domain expertise provided by IMD-POSCO also helps. These help discoms build advanced models, which leads to high accuracy planning and huge saving of man-hours and cost"-added the spokesperson.

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 at an optimal cost.

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

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