

Outlook on working through pandemic while keeping the core operations intact

Immediate measures and actions undertaken to combat situational challenges

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Core Grid Operations Resilience Framework Pan –India

NLDC and RLDCs tackling Covid-19 pandemic outbreak



social

Pandemic Plan (as per GoI/MoHFW)

Strategic Oversight / Tactical Teams

Employee Care (PPE, teleworking, distancing)

Sanitizing Premises (security, cleaning)

Employee self health screening

National and Global cooperation
FOLD, GO15, CIGRE

Regular and Swift Communication
www.posoco.in ; [@posocoindia](https://twitter.com/posocoindia)

technical

Backup control centres on hot Standby

Focus on Forecasting & Scheduling
(Load, Generation including RE)

Manpower/Material/Communication
redundancy in control rooms

Business Continuity - Metering,
accounting, settlement of transactions

Outage Management

Depleted generation (less committed
units)/transmission (more open lines)

Alternate temporary control room

Curtailments, payment security,
contracts (force majeure invocation)

specific

general

Pro-active actions taken

Internal advisory to employees in respect of sanitization and social distancing protocols - **13th March 2020**

Detailed guidelines - **19th March 2020**

- General sanitization & social distancing protocols
- Ensuring continuity of LDC operations, particularly control centres
- Impact on reliability of electricity grid due to COVID-19 & measures to be taken

Detailed guidelines circulated to State Load Despatch Centres

Emergency meeting of Forum Of Load Despatchers (FOLD) **20th March 2020**

- Nearly 35 Load Despatch Centres via Video Conferencing



Facilitating grid operations 24x7 pan-India



Teleworking from home



Periodic sanitization of CR premises



Core CR personnel with complete PPE

POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise) CIN: U46100DL2699C005582

National Load Despatch Centre

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COVID-19

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Critical Information Dissemination

Important events in Indian grid operation after Covid-19 pandemic outbreak



22 March 2020

Janta curfew



**25 March 2020 to
14 April 2020**

Complete India
lockdown



5th April 2020

*Pan-India lights
switch off for
9 minutes @ 9 PM*

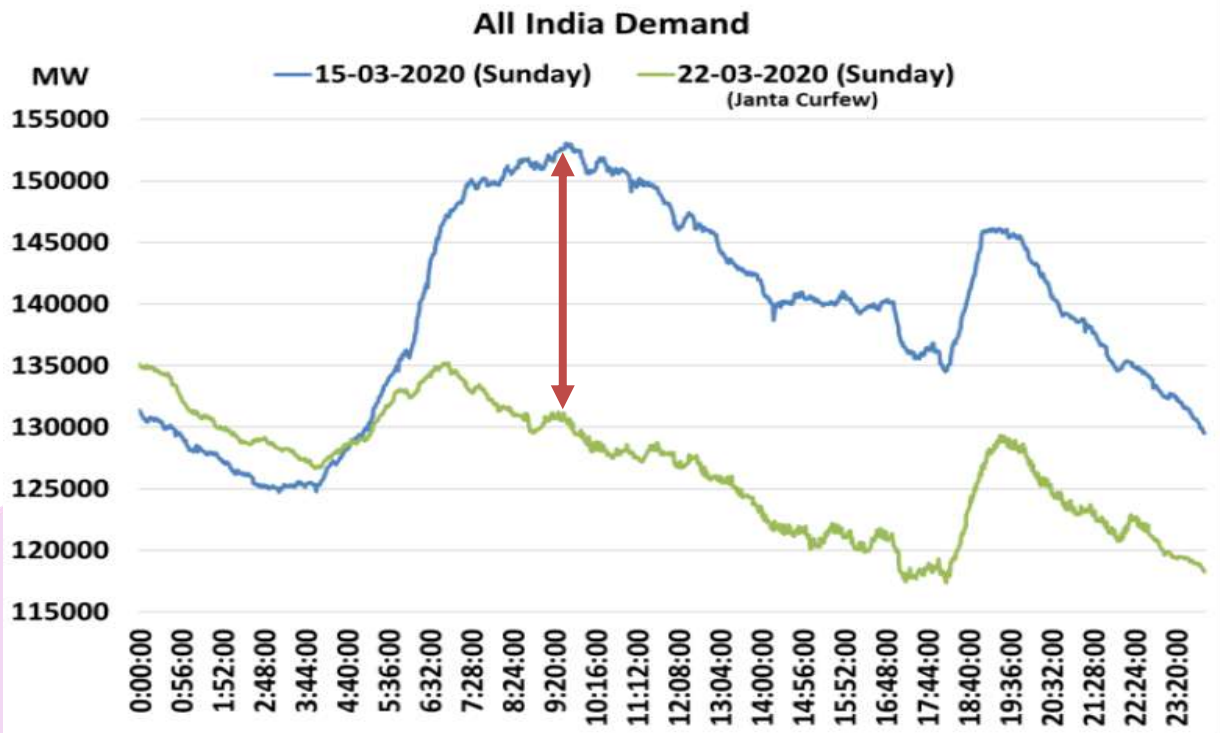
22 March 2020

Janta curfew

Impact on Indian grid Operation



All India load curve for 22nd March 2020 (Janta curfew day) as compared with last Sunday (15th March 2020)



All India

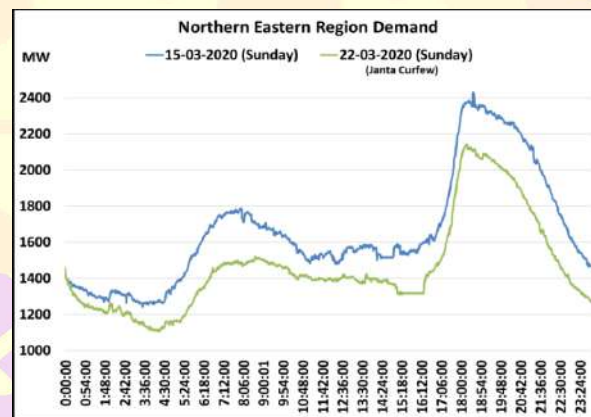
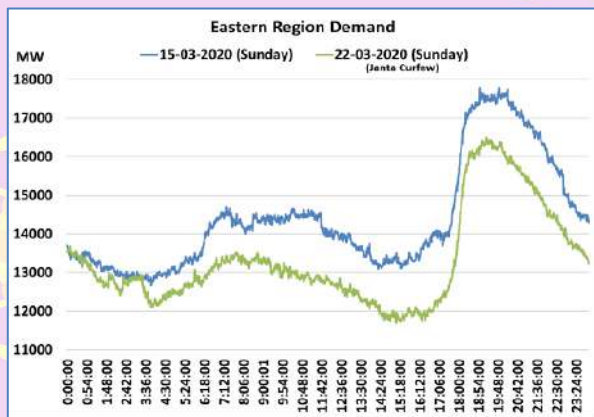
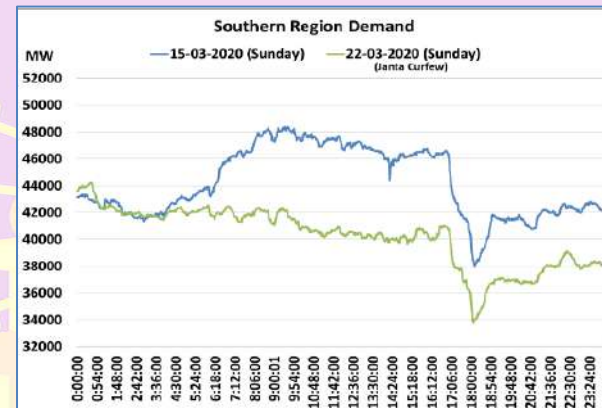
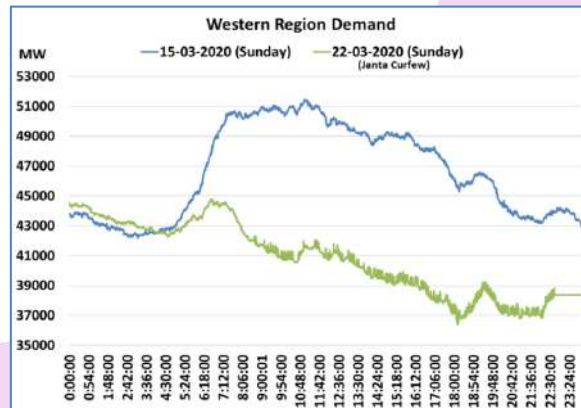
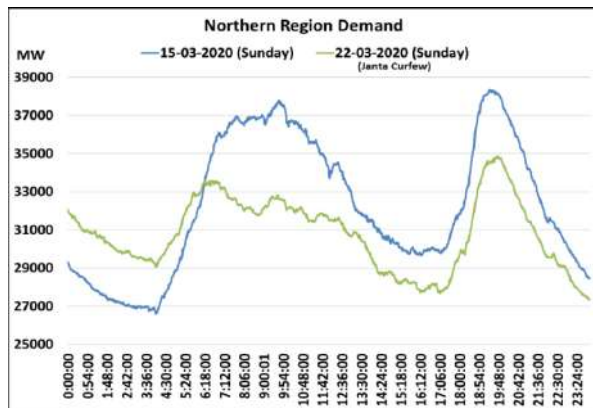
Reduction in energy consumption
~ **300 MU**

Peak demand suppressed
~ **20 GW**

Compared to previous Sunday
(15th March, 2020)

Date	Energy Consumption (GWh)					
	Northern Region	Western Region	Southern Region	Eastern Region	North Eastern Region	All India
15-March-2020	774	1119	1061	345	39.82	3339
22-March-2020	739	977	965	319	35.10	3035

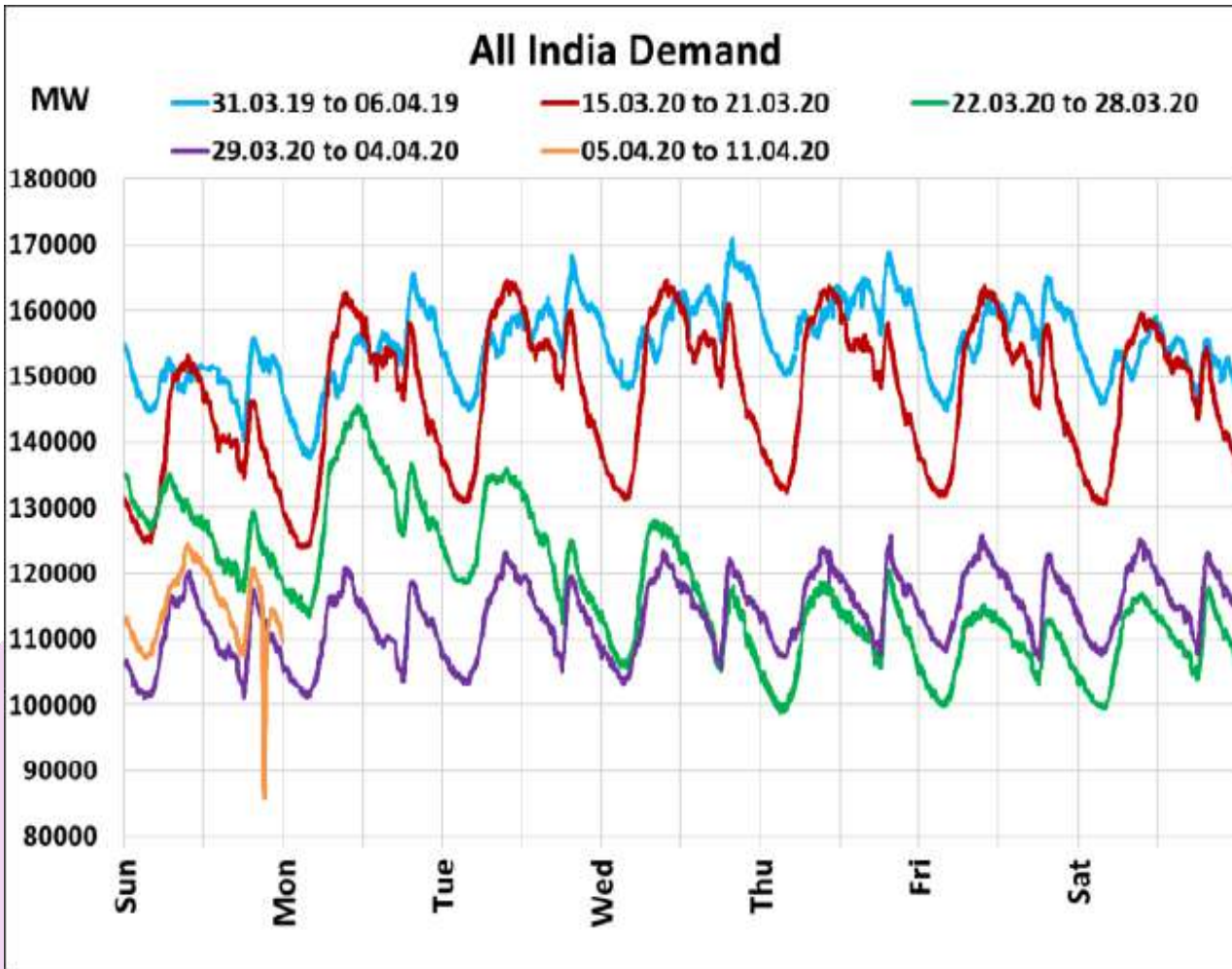
Regional load curves for 22nd March 2020 (Janta curfew day) as compared with last Sunday (15th March 2020)



25 March - 14 April 2020
Complete India lockdown

Impact on Indian grid Operation

All India load curve from 15th March 2020 onwards



- Comparing with last year curve, there is a downward trend in the demand met due to the lockdown.
- The pattern during weekends and weekdays has become similar.
- Load shapes stay much the same with reduction in magnitude, but some indications of lower morning peaks.
- In the initial days of the lockdown, due to lack of seriousness, some establishments in some states were open. However, with stricter enforcement of lockdown pan-India, the max & min load have stabilized.

Regional load curves from 15th March 2020 onwards

