



National Load Despatch Centre  
राष्ट्रीय भार प्रेषण केंद्र  
POWER SYSTEM OPERATION CORPORATION LIMITED  
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
(Government of India Enterprise/ भारत सरकार का उद्यम)  
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016  
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20<sup>th</sup> Mar 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093  
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 19.03.2020.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 19<sup>th</sup> Mar 2020, is available at the NLDC website.

धन्यवाद,

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	39473	48434	45593	17724	2418	153642
Peak Shortage (MW)	534	0	0	0	58	592
Energy Met (MU)	860	1171	1147	373	42	3594
Hydro Gen (MU)	147	46	91	28	4	315
Wind Gen (MU)	5	43	17	-----	-----	65
Solar Gen (MU)*	39.11	27.50	93.46	4.56	0.04	165
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.6	9.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42914 19:18	53319 11:25	52928 10:28	17750 18:32	2487 18:14	163703 10:24

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.046	0.09	1.50	4.66	6.26	74.42	19.32

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5080	0	103.9	69.9	-1.0	75	0.0
	Haryana	5791	0	116.2	85.3	0.2	191	0.0
	Rajasthan	12151	0	216.8	58.9	-2.1	251	0.0
	Delhi	3413	0	60.6	50.0	-0.9	212	0.0
	UP	13911	0	256.7	115.6	0.2	387	0.0
	Uttarakhand	1697	0	33.7	11.9	0.2	124	0.0
	HP	1513	0	24.7	17.7	-0.3	132	0.0
	J&K(UT) and Ladakh(UT)	2139	535	44.8	38.0	-1.2	259	9.3
	Chandigarh	188	0	3.1	3.3	-0.3	11	0.0
WR	Chhattisgarh	3843	0	83.7	32.8	-1.9	210	0.0
	Gujarat	16511	0	364.5	78.4	3.7	586	0.0
	MP	10359	0	200.5	105.5	-0.9	525	0.0
	Maharashtra	22807	0	479.0	168.3	-3.8	498	0.0
	Goa	479	0	10.6	10.4	-0.3	26	0.0
	DD	326	0	7.4	7.2	0.2	28	0.0
	DNH	811	0	19.1	19.1	0.0	24	0.0
	Essar steel	840	0	6.5	6.5	0.0	263	0.0
	Andhra Pradesh	10201	0	201.3	100.7	-0.7	570	0.0
SR	Telangana	12408	0	247.4	143.9	-1.7	396	0.0
	Karnataka	12497	0	258.6	84.6	-0.1	573	0.0
	Kerala	4116	0	85.3	62.1	1.7	347	0.0
	Tamil Nadu	15591	0	345.6	211.5	1.8	890	0.0
	Pondy	386	0	8.3	8.6	-0.3	20	0.0
	Bihar	4248	0	74.1	69.1	1.5	520	0.0
ER	DVC	2994	0	63.1	-44.7	-0.4	180	0.0
	Jharkhand	1200	0	23.9	14.7	-0.2	95	0.0
	Odisha	3939	0	69.3	-0.6	0.0	340	0.0
	West Bengal	7143	0	141.3	37.1	1.3	450	0.0
	Sikkim	101	0	1.4	1.8	-0.4	15	0.0
	Arunachal Pradesh	123	1	2.2	2.1	-0.1	42	0.0
NER	Assam	1466	40	24.2	20.5	0.1	95	0.4
	Manipur	186	2	2.9	2.5	0.4	26	0.0
	Meghalaya	317	0	5.2	3.9	0.3	23	0.1
	Mizoram	98	2	1.8	1.4	0.1	14	0.0
	Nagaland	118	1	2.1	2.1	0.0	8	0.0
	Tripura	241	1	3.8	3.1	-0.4	45	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.3	-11.4	-15.8
Day peak (MW)	320.9	-593.6	-966.0

E. Import/export By Regions(in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.2	-278.6	200.2	-106.2	6.4	0.0
Actual(MU)	167.2	-286.9	210.1	-112.5	8.7	-13.5
O/D/U/D(MU)	-11.0	-8.3	9.9	-6.4	2.3	-13.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5430	12841	4952	2310	727	26261
State Sector	16410	15382	8125	5000	11	44928
Total	21840	28223	13077	7310	738	71188

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	419	1210	571	487	11	2698
Lignite	21	14	52	0	0	87
Hydro	147	46	91	28	4	315
Nuclear	24	37	66	0	0	127
Gas, Naptha & Diesel	30	80	18	0	23	152
RES (Wind, Solar, Biomass & Others)	71	79	140	5	0	294
Total	712	1466	937	519	38	3672

Share of RES in total generation (%)	9.91	5.38	14.94	0.89	0.10	8.01
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.87	11.05	31.66	6.19	11.14	20.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.095

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES								Date of Reporting :	20-Mar-20
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	249	0.0	6.1	-6.1	
1	765kV	GAYA-VARANASI	D/C	27	751	0.0	8.0	-8.0	
2		SASARAM-FATEHPUR	S/C	142	263	0.0	2.4	-2.4	
3		GAYA-BALIA	S/C	0	494	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	231	0.0	4.1	-4.1	
7		PUSAULI -ALLAHABAD	S/C	0	132	0.0	1.8	-1.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	68	589	0.0	6.3	-6.3	
9		PATNA-BALIA	Q/C	0	957	0.0	18.0	-18.0	
10		BIHARSHARIFF-BALIA	D/C	0	333	0.0	4.7	-4.7	
11		MOTIHARI-GORAKHPUR	D/C	0	322	0.0	6.4	-6.4	
12		BIHARSHARIFF-VARANASI	D/C	265	248	0.2	0.0	0.2	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	149	0.0	2.6	-2.6
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
ER-NR						0.5	68.8	-68.3	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1753	0	33.0	0.0	33.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	737	45	7.2	0.0	7.2	
20		JHARSUGUDA-DURG	D/C	213	55	1.0	0.0	1.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	189	272	0.4	0.7	-0.4	
22		RANCHI-SIPAT	D/C	290	33	2.0	0.0	2.0	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	26	106	0.0	1.0	-1.0	
24		BUDHIPADAR-KORBA	D/C	165	0	2.1	0.0	2.1	
ER-WR						45.7	1.8	43.9	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	706.0	0.0	16.7	-16.7	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2465.0	0.0	49.7	-49.7	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	3082.0	0.0	61.3	-61.3	
28	400 kV	TALCHER-I/C	D/C	0.0	766.0	0.0	6.2	-6.2	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	127.7	-127.7	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	145	522	0.9	5.6	-5	
31		ALIPURDUAR-BONGAIGAON	D/C	235	674	0.0	5.4	-5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	52	123	0.0	0.8	-1	
ER-NER						0.9	11.8	-10.9	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	465	502	0.0	2.0	-2.0	
NER-NR						0.0	2.0	-2.0	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	999	0.0	6.6	-6.6	
35		VCHAL B/B	D/C	449	0	11.5	0.0	11.5	
36		APL -MHG	D/C	0	1080	0.0	26.7	-26.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2142	0.0	41.3	-41.3	
38		PHAGI-GWALIOR	D/C	0	1199	0.0	18.2	-18.2	
39		JABALPUR-ORAI	D/C	0	711	0.0	26.1	-26.1	
40		GWALIOR-ORAI	S/C	593	0	8.8	0.0	8.8	
41		SATNA-ORAI	S/C	0	1348	0.0	28.5	-28.5	
42		CHITTORGARH-BANASKANTHA	D/C	167	542	0.0	2.8	-2.8	
43	400 kV	ZERDA-KANKROLI	S/C	137	45	1.1	0.0	1.1	
44		ZERDA -BHINMAL	S/C	78	244	0.0	1.2	-1.2	
45		VCHAL-RIHAND	S/C	980	0	22.6	0.0	22.6	
46		RAPP-SHUJALPUR	D/C	164	131	1	0	1	
47	220 kV	BHANPURA-RANPUR	S/C	18	83	0.1	0.9	-0.8	
48		BHANPURA-MORAK	S/C	0	129	0.0	1.5	-1.5	
49		MEHGAON-AURAIYA	S/C	92	1	1.0	0.0	1.0	
50	132kV	MALANPUR-AURAIYA	S/C	47	29	0.3	0.1	0.2	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						46.2	153.7	-107.5	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1012	0.0	24.0	-24.0	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2712	0.0	50.3	-50.3	
55		WARDHA-NIZAMABAD	D/C	0	3416	0.0	71.9	-71.9	
56	400 kV	KOLHAPUR-KUDGI	D/C	910	0	12.9	0.0	12.9	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	67	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	105	2.0	0.0	2.0	
WR-SR						14.9	147.5	-132.6	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						1.3	
61		NEPAL						-11.4	
62		BANGLADESH						-15.8	