



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: 12<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 11.03.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 11<sup>th</sup> Mar 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 12-Mar-2020

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)	34899	45894	44839	16110	2363	144105
Peak Shortage (MW)	637	0	0	0	41	678
Energy Met (MU)	684	1054	1106	334	39	3217
Hydro Gen (MU)	127	42	94	30	6	299
Wind Gen (MU)	25	92	19	-	-	136
Solar Gen (MU)*	32.44	28.00	85.99	1.30	0.04	148
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.7	10
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	36517 09:22	51299 11:25	52135 09:26	17737 18:40	2390 18:07	151412 09:30

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	0.061	0.00	2.34	10.23	12.57	65.62	21.81

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	4279	0	78.1	67.0	-0.9	250	0.0
	Haryana	4414	0	77.1	69.6	1.0	222	0.0
	Rajasthan	10241	0	170.6	35.7	-6.9	1004	0.0
	Delhi	3121	0	53.3	42.4	-0.9	118	0.0
	UP	11654	0	205.3	99.4	-0.6	1002	0.0
	Uttarakhand	1450	0	26.8	15.1	0.9	183	0.0
	HP	1369	0	23.4	16.0	0.2	218	0.0
	J&K(UT) and Ladakh(UT)	2547	637	46.2	42.2	-1.4	342	9.3
	Chandigarh	197	0	3.3	3.6	-0.3	15	0.0
WR	Chhattisgarh	3477	0	72.7	27.3	-1.3	196	0.0
	Gujarat	13837	0	286.4	79.6	2.3	940	0.0
	MP	10379	0	194.5	89.1	-1.3	409	0.0
	Maharashtra	22751	0	465.5	141.9	-2.1	441	0.0
	Goa	501	0	10.1	9.7	-0.1	33	0.0
	DD	285	0	5.4	5.2	0.2	26	0.0
	DNH	693	0	14.1	14.0	0.1	68	0.0
	Essar steel	812	0	5.4	5.3	0.1	279	0.0
	SR	Andhra Pradesh	9496	0	192.3	90.0	0.8	539
Telangana		11806	0	234.2	127.5	0.0	519	0.0
Karnataka		12785	0	255.2	82.1	0.9	525	0.0
Kerala		3945	0	82.6	62.8	1.0	189	0.0
Tamil Nadu		15297	0	333.6	183.2	-0.3	457	0.0
Pondy		395	0	7.9	8.1	-0.2	42	0.0
ER	Bihar	3667	0	65.6	59.7	-2.1	377	0.0
	DVC	2766	0	54.3	-35.5	0.2	245	0.0
	Jharkhand	1157	0	22.8	17.7	-0.3	199	0.0
	Odisha	3977	0	74.9	8.5	0.2	259	0.0
	West Bengal	6375	0	114.5	29.6	0.0	197	0.0
	Sikkim	107	0	1.4	1.8	-0.4	13	0.0
NER	Arunachal Pradesh	126	1	2.0	2.3	-0.3	12	0.0
	Assam	1345	20	21.4	16.7	-0.3	56	0.5
	Manipur	192	1	2.6	2.5	0.1	18	0.0
	Meghalaya	375	0	5.5	3.4	0.4	21	0.1
	Mizoram	100	1	1.7	1.3	0.1	25	0.0
	Nagaland	129	1	2.4	1.9	0.4	9	0.0
Tripura	226	1	3.5	1.7	0.3	32	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.8	-5.8	-16.8
Day peak (MW)	315.0	-414.0	-1085.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	141.2	-246.0	184.6	-88.6	8.3	-0.5
Actual(MU)	114.2	-257.2	223.0	-88.4	11.4	3.1
O/D/U/D(MU)	-26.9	-11.2	38.4	0.3	3.1	3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5397	15050	6212	1200	1090	28949
State Sector	21875	17367	7525	5262	11	52040
Total	27272	32416	13737	6462	1101	80989

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	310	1050	543	424	11	2337
Lignite	17	13	48	0	0	78
Hydro	127	42	94	31	6	299
Nuclear	24	37	44	0	0	105
Gas, Naptha & Diesel	23	38	17	0	16	94
RES (Wind, Solar, Biomass & Others)	84	137	143	1	0	365
Total	586	1316	889	455	32	3279

Share of RES in total generation (%)	14.38	10.37	16.07	0.29	0.12	11.13
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.18	16.36	31.55	6.99	17.42	23.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.098

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**

Import=(+ve)/Export =(-ve) for NET (MU)

Date of Reporting: 12-Mar-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	-	0	500	0.0	3.2	-3.2	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	169	518	0.0	2.3	-2.3	
4	765 kV	SASARAM-FATEHPUR	S/C	197	202	0.1	0.0	0.1	
5	765 kV	GAYA-BALIA	S/C	0	308	0.0	4.6	-4.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	229	0.0	4.6	-4.6	
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	98	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	149	340	0.0	0.8	-0.8	
9	400 kV	PATNA-BALIA	Q/C	0	670	0.0	8.2	-8.2	
10	400 kV	BIHARSHARIFF-BALIA	D/C	69	224	0.0	1.3	-1.3	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	322	0.0	4.5	-4.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	269	130	2.2	0.0	2.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	117	0.0	2.1	-2.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	2.7	38.7	-36.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2260	0	41.4	0.0	41.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	667	150	5.4	0.0	5.4	
3	765 kV	JHARSUGUDA-DURG	D/C	130	85	0.2	0.0	0.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	276	109	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	D/C	254	17	3.1	0.0	3.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	32	85	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	114	0	1.7	0.0	1.7	
						ER-WR	53.5	0.6	52.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	683	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2471	0.0	48.7	-48.7	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3076	0.0	62.5	-62.5	
4	400 kV	TALCHER-UC	D/C	0	1459	0.0	14.6	-14.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	127.1	-127.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	473	0.0	7.6	-7.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	627	0.0	9.1	-9.1	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	117	0.0	1.9	-1.9	
						ER-NER	0.0	18.5	-18.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	6.4	-6.4	
						NER-NR	0.0	6.4	-6.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	8.5	-8.5	
2	HVDC	V'CHAL B/B	D/C	449	0	11.3	0.0	11.3	
3	HVDC	APL -MHG	D/C	0	1270	0.0	29.2	-29.2	
4	765 kV	GWALIOR-AGRA	D/C	0	1770	0.0	26.9	-26.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	1116	0.0	13.9	-13.9	
6	765 kV	JABALPUR-ORAI	D/C	0	594	0.0	15.1	-15.1	
7	765 kV	GWALIOR-ORAI	S/C	558	0	7.6	0.0	7.6	
8	765 kV	SATNA-ORAI	S/C	0	1167	0.0	22.6	-22.6	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	242	706	0.0	3.4	-3.4	
10	400 kV	ZERDA-KANKROLI	S/C	156	60	1.6	0.0	1.6	
11	400 kV	ZERDA -BHINMAL	S/C	374	102	2.6	0.0	2.6	
12	400 kV	V'CHAL -RIHAND	S/C	973	0	22.0	0.0	22.0	
13	400 kV	RAPP-SHUJALPUR	D/C	345	187	0.7	0.0	0.7	
14	220 kV	BHANPURA-RANPUR	S/C	67	60	0.1	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	7	126	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	S/C	92	0	0.9	0.0	0.9	
17	220 kV	MALANPUR-AURAIYA	S/C	57	6	0.4	0.0	0.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	47.0	121.9	-74.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2850	0.0	52.0	-52.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3306	0.0	64.6	-64.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	736	86	8.7	0.0	8.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	71	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	102	1.7	0.0	1.7	
						WR-SR	10.4	141.9	-131.5

INTERNATIONAL EXCHANGES							
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0	
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	0	0	-36	-0.9	
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	107	98	88	2.1	
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	87	0	37	0.9	
	NER	132KV-SALAKATI - GELEPHU	13	0	-5	-0.1	
NEPAL	NER	132KV-RANGIA - DEOTHANG	19	0	-8	-0.2	
	NR	132KV-Tanakupur(NH) - Mahendranagar(PG)	0	0	0	-1.0	
	ER	132KV-BIHAR - NEPAL	-151	-1	-31	-0.7	
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-208	-102	-170	-4.1	
	ER	Bheramara HVDC(Bangladesh)	-952	-263	-600	-14.4	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	67	0	-50	-1.2	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-50	-1.2	