



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: 23<sup>rd</sup> Mar 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 22.03.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 22<sup>nd</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: 23-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)	31804	37511	37047	16479	2159	125000
Peak Shortage (MW)	449	0	0	0	43	492
Energy Met (MU)	728	971	975	315	36	3025
Hydro Gen (MU)	141	33	63	25	4	265
Wind Gen (MU)	13	30	19	-	-	61
Solar Gen (MU)*	35.74	27.10	91.79	4.69	0.03	159
Energy Shortage (MU)	10.9	0.0	0.0	0.0	1.7	12.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	34866	44797	44261	16499	2144	135202
Time Of Maximum Demand Met (From NLDC SCADA)	19:46	06:40	00:38	19:17	18:16	06:51

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	0.067	0.01	1.37	6.64	8.02	57.89	34.09

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	3995	0	86.3	56.3	-1.4	123	0.0
	Haryana	5064	0	93.0	64.8	1.0	242	0.0
	Rajasthan	10077	0	178.7	41.0	-0.3	425	0.0
	Delhi	2282	0	46.1	33.9	-2.8	354	0.2
	UP	13391	0	240.8	106.9	0.7	544	0.0
	Uttarakhand	1131	0	22.5	8.1	-2.6	81	0.0
	HP	954	0	18.0	13.0	-4.8	11	0.0
	J&K(UT) & Ladakh(UT)	2067	517	45.6	37.1	-1.0	119	10.7
	Chandigarh	143	0	2.4	2.7	-0.4	4	0.0
	Chhattisgarh	3505	0	81.6	28.9	0.0	181	0.0
WR	Gujarat	13564	0	282.4	67.8	-0.6	608	0.0
	MP	9290	0	182.1	111.0	-1.8	295	0.0
	Maharashtra	17909	0	395.6	112.8	-4.0	618	0.0
	Goa	365	0	7.4	7.4	-0.1	68	0.0
	DD	282	0	3.6	3.5	0.1	34	0.0
	DNH	776	0	13.5	13.7	-0.2	35	0.0
	Essar steel	756	0	4.4	4.2	0.2	263	0.0
	Andhra Pradesh	8514	0	176.7	80.4	0.0	694	0.0
	Telangana	10290	0	219.7	119.2	-1.2	610	0.0
	Karnataka	11011	0	226.4	79.3	0.2	764	0.0
SR	Kerala	3628	0	69.9	58.6	0.9	234	0.0
	Tamil Nadu	12233	0	276.5	169.9	-0.8	611	0.0
	Puducherry	327	0	6.1	6.5	-0.4	48	0.0
	Bihar	3942	0	68.2	66.8	-0.2	336	0.0
	DVC	2726	0	57.5	-35.4	0.8	298	0.0
	Jharkhand	1256	0	21.5	14.4	-1.8	139	0.0
	Odisha	3408	0	66.5	3.9	-0.2	338	0.0
	West Bengal	5587	0	100.4	26.8	0.4	528	0.0
	Sikkim	82	0	1.0	1.6	-0.6	11	0.0
	NER	Arumachal Pradesh	118	1	2.1	2.3	-0.3	0
Assam		1160	22	19.0	15.8	-0.4	101	1.5
Manipur		190	1	2.4	2.4	0.0	34	0.0
Meghalaya		320	0	5.6	4.1	0.5	62	0.1
Mizoram		99	1	1.6	1.4	0.0	19	0.0
Nagaland		124	2	2.2	2.1	0.0	2	0.0
Tripura		216	2	3.1	2.2	-0.3	30	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.3	-9.3	-19.5
Day Peak (MW)	336.4	-509.3	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	117.9	-212.6	164.7	-73.5	3.5	0.0
Actual(MU)	121.6	-233.7	187.5	-73.2	4.3	5.5
OD/UD(MU)	3.7	-22.1	22.9	0.3	0.7	5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5530	18065	5052	910	727	30284
State Sector	17573	17770	9285	6050	11	50689
Total	23103	35835	14337	6960	738	80973

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	364	983	466	388	9	2211
Lignite	19	16	41	0	0	76
Hydro	141	33	63	25	4	265
Nuclear	22	36	69	0	0	127
Gas, Naptha & Diesel	29	62	18	0	22	131
RES (Wind, Solar, Biomass & Others)	73	66	132	5	0	276
Total	647	1196	789	417	36	3086
Share of RES in total generation (%)	11.25	5.53	16.73	1.14	0.08	8.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	36.47	11.25	33.39	7.02	12.37	21.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.054
Based on State Max Demands	1.115

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

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

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)  
Date of Reporting: 23-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	251	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	D/C	177	359	0.0	2.3	-2.3
4	765 kV	SASARAM-FATEHPUR	S/C	215	186	0.0	0.5	-0.5
5	765 kV	GAYA-BALIA	S/C	0	270	0.0	4.4	-4.4
6	400 kV	PUSAULI-VARANASI	S/C	0	240	0.0	4.8	-4.8
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	93	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	267	295	0.0	0.8	-0.8
9	400 kV	PATNA-BALIA	Q/C	91	565	0.0	4.5	-4.5
10	400 kV	BIHARSHARIF-BALIA	D/C	105	151	0.0	0.4	-0.4
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	295	0.0	4.6	-4.6
12	400 kV	BIHARSHARIF-VARANASI	D/C	325	0	3.8	0.0	3.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	122	0.0	2.2	-2.2
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						4.1	32.1	-28.0
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1385	0	24.9	0.0	24.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	905	95	7.4	0.0	7.4
3	765 kV	JHARSUGUDA-DURG	D/C	67	143	0.0	1.2	-1.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	112	76	0.2	0.0	0.2
5	400 kV	RANCHI-SIPAT	D/C	304	3	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	S/C	6	92	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	D/C	177	0	2.7	0.0	2.7
ER-WR						38.5	2.4	36.1
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	700	0.0	16.0	-16.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1977	0.0	28.5	-28.5
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3003	0.0	58.3	-58.3
4	400 kV	TALCHER-I/C	D/C	1227	979	1.8	0.0	1.8
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	102.8	-102.8
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	D/C	155	444	0.0	5.6	-5.6
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	226	573	0.0	8.3	-8.3
3	220 kV	ALIPURDUAR-SALAKATI	D/C	42	101	0.0	1.4	-1.4
ER-NER						0.0	15.3	-15.3
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	-	476	501	0.0	10.0	-10.0
NER-NR						0.0	10.0	-10.0
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	10.0	-10.0
2	HVDC	V'CHAL B/B	D/C	449	0	12.2	0.0	12.2
3	HVDC	APL -MHG	D/C	0	1079	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	D/C	0	1666	0.0	30.1	-30.1
5	765 kV	PHAGI-GWALIOR	D/C	0	761	0.0	12.3	-12.3
6	765 kV	JABALPUR-ORAI	D/C	0	549	0.0	19.9	-19.9
7	765 kV	GWALIOR-ORAI	S/C	426	0	7.5	0.0	7.5
8	765 kV	SAJNA-ORAI	S/C	0	1145	0.0	23.5	-23.5
9	765 kV	CHITORGARH-BANASKANTHA	D/C	739	0	10.7	0.0	10.7
10	400 kV	ZERDA-KANKROLI	S/C	205	0	3.8	0.0	3.8
11	400 kV	ZERDA -BHINMAL	S/C	344	0	4.0	0.0	4.0
12	400 kV	V'CHAL -RIHAND	S/C	968	6	22.4	0.0	22.4
13	400 kV	RAPP-SHUALPUR	D/C	239	79	0.8	0.0	0.8
14	220 kV	BHANPURA-RANPUR	S/C	14	48	0.1	0.5	-0.4
15	220 kV	BHANPURA-MORAK	S/C	0	105	0.0	1.1	-1.1
16	220 kV	MEHGAON-AURAIYA	S/C	93	0	1.3	0.0	1.3
17	220 kV	MALANPUR-AURAIYA	S/C	53	9	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						63.2	123.9	-60.8
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	15.8	-15.8
2	HVDC	BARSOUL-SILERRU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2845	0.0	46.3	-46.3
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3267	0.0	62.4	-62.4
5	400 kV	KOLHAPUR-KUDGI	D/C	570	48	7.0	0.0	7.0
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	53	0.0	1.1	-1.1
8	220 kV	XELDEM-AMBEWADI	S/C	0	81	1.3	0.0	1.3
WR-SR						8.3	125.6	-117.3

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	13	0	-67	-1.6
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	109	96	98	2.4
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	83	36	38	0.9
	NER	132KV-SALAKATI - GELEPHU	22	0	-5	-0.1
	NER	132KV-RANGIA - DEOTHANG	22	0	-8	-0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.4
	ER	132KV-BIHAR - NEPAL	-209	-15	-117	-2.8
	ER	220KV-MUZAFFARPUR - DHAKKEBAR DC	-272	-208	-252	-6.1
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-946	-342	-707	-17.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-53	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-53	-1.3