



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: 19th 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., डोंगतिह, 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 18.03.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	40437	49440	45875	19292	2436	157480
Peak Shortage (MW)	571	0	0	0	43	614
Energy Met (MU)	851	1170	1157	385	42	3605
Hydro Gen (MU)	148	43	88	31	5	315
Wind Gen (MU)	7	37	31	-	-	75
Solar Gen (MU)*	43.59	27.10	101.04	4.65	0.04	176
Energy Shortage (MU)	9.4	0.0	0.0	0.0	0.6	9.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42759	53408	53465	19432	2497	164440
Time Of Maximum Demand Met (From NLDC SCADA)	19:34	11:39	15:40	19:09	18:26	09:56

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	0.041	0.00	0.21	7.16	7.37	71.88	20.75

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	5083	0	102.4	67.5	0.0	144	0.0
	Haryana	5918	0	115.1	87.0	0.9	135	0.0
	Rajasthan	12205	0	215.2	50.3	-1.6	261	0.0
	Delhi	3439	0	60.7	49.5	-1.2	160	0.1
	UP	13962	135	249.9	109.0	1.0	1322	0.0
	Uttarakhand	1770	0	34.0	12.5	-0.2	120	0.0
	HP	1550	0	24.7	17.9	-0.6	140	0.0
	J&K(UT) & Ladakh(UT)	2358	589	46.0	37.9	-0.4	337	9.3
	Chandigarh	202	0	3.2	3.3	-0.1	15	0.0
	Chhattisgarh	3860	0	89.1	36.8	-1.1	213	0.0
WR	Gujarat	16193	0	355.9	83.9	4.0	872	0.0
	MP	10454	0	203.4	104.8	-1.4	404	0.0
	Maharashtra	22771	0	479.6	171.1	-2.1	647	0.0
	Goa	507	0	10.9	10.6	-0.2	43	0.0
	DD	332	0	7.4	7.2	0.2	33	0.0
	DNH	803	0	19.0	19.0	0.0	48	0.0
	Essar steel	778	0	4.5	4.3	0.2	251	0.0
	Andhra Pradesh	10207	0	204.3	111.0	0.9	605	0.0
	Telangana	12548	0	256.2	147.8	0.1	856	0.0
	Karnataka	12890	0	256.0	85.5	-1.1	425	0.0
SR	Kerala	4182	0	84.7	63.4	1.4	217	0.0
	Tamil Nadu	15538	0	347.2	199.2	0.7	685	0.0
	Puducherry	399	0	8.3	8.6	-0.3	26	0.0
	Bihar	4153	0	73.4	68.9	0.7	340	0.0
	DVC	2998	0	63.5	-43.4	0.4	100	0.0
	Jharkhand	1281	0	24.4	15.7	-0.8	167	0.0
	Odisha	3988	0	80.3	5.0	0.2	236	0.0
	West Bengal	7288	0	142.1	38.6	0.8	310	0.0
	Sikkim	129	0	1.4	1.8	-0.3	46	0.0
	NER	Arumachal Pradesh	121	1	2.2	2.2	-0.1	20
Assam		1428	25	23.7	20.2	-0.3	79	0.4
Manipur		189	1	2.9	2.5	0.5	28	0.0
Meghalaya		317	0	5.4	3.9	0.1	70	0.1
Mizoram		99	1	1.8	1.4	0.2	16	0.0
Nagaland		123	2	2.2	2.1	0.1	7	0.0
Tripura		244	1	3.8	3.0	-0.2	56	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.4	-11.0	-17.0
Day Peak (MW)	275.5	-583.4	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.4	-268.7	197.8	-100.7	6.1	-0.1
Actual(MU)	160.3	-263.2	211.1	-112.7	8.2	3.6
OD/UD(MU)	-5.1	5.5	13.3	-12.1	2.1	3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5030	14242	3802	1585	727	25387
State Sector	16410	15710	8535	5000	11	45666
Total	21440	29952	12337	6585	738	71052

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	410	1195	559	495	11	2670
Lignite	21	14	53	0	0	89
Hvdro	148	43	88	31	5	315
Nuclear	24	37	66	0	0	126
Gas, Naptha & Diesel	31	82	18	0	23	154
RES (Wind, Solar, Biomass & Others)	77	74	165	5	0	321
Total	711	1444	949	531	39	3674
Share of RES in total generation (%)	10.85	5.13	17.36	0.89	0.10	8.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	34.95	10.66	33.56	6.77	12.34	20.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.096

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: 19-Mar-2020

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)								
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	D/C	0	676	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	S/C	49	375	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	S/C	0	440	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	S/C	0	214	0.0	4.1	-4.1
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	118	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	646	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	Q/C	0	993	0.0	15.1	-15.1
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	358	0.0	4.8	-4.8
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	321	0.0	6.3	-6.3
12	400 kV	BIHARSHARIFF-VARANASI	D/C	142	240	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	142	0.0	2.7	-2.7
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						0.3	68.6	-68.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1889	0	31.5	0.0	31.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	866	190	3.0	0.0	3.0
3	765 kV	JHARSUGUDA-DURG	D/C	202	80	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	51	303	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	D/C	302	86	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	101	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	D/C	125	0	1.8	0.0	1.8
ER-WR						37.7	4.9	32.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	385	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2459	0.0	51.5	-51.5
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3381	0.0	68.4	-68.4
4	400 kV	TALCHER-I/C	D/C	0	873	0.0	10.2	-10.2
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	128.6	-128.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	D/C	154	147	1.2	0.0	1.2
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	240	150	1.4	0.0	1.4
3	220 kV	ALIPURDUAR-SALAKATI	D/C	52	31	0.4	0.0	0.4
ER-NER						3.0	0.0	3.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	0	11.6	0.0	11.6
NER-NR						11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	547	0.0	10.3	-10.3
2	HVDC	V'CHAL B/B	D/C	184	103	1.1	1.9	-0.8
3	HVDC	APL -MHG	D/C	0	1080	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	D/C	0	2397	0.0	39.0	-39.0
5	765 kV	PHAGI-GWALIOR	D/C	0	1196	0.0	15.9	-15.9
6	765 kV	JABALPUR-ORAI	D/C	0	733	0.0	24.3	-24.3
7	765 kV	GWALIOR-ORAI	S/C	627	0	10.2	0.0	10.2
8	765 kV	SAINA-ORAI	S/C	0	1323	0.0	26.7	-26.7
9	765 kV	CHITORGARH-BANASKANTHA	D/C	394	322	2.3	1.6	0.8
10	400 kV	ZERDA-KANKROLI	S/C	170	33	1.9	0.0	1.9
11	400 kV	ZERDA -BHINMAL	S/C	193	207	0.1	0.0	0.1
12	400 kV	V'CHAL -RIHAND	S/C	980	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUALPUR	D/C	179	169	1.4	0.6	0.8
14	220 kV	BHANPURA-RANPUR	S/C	17	76	0.1	1.0	-1.0
15	220 kV	BHANPURA-MORAK	S/C	0	136	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	S/C	105	2	1.3	0.0	1.3
17	220 kV	MALANPUR-AURAIYA	S/C	58	31	0.5	0.1	0.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						41.4	149.4	-108.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.1	-21.1
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2678	0.0	48.5	-48.5
4	765 kV	WARDHA-NZAMABAD	D/C	0	3491	0.0	69.3	-69.3
5	400 kV	KOLHAPUR-KUDGI	D/C	895	0	13.6	0.0	13.6
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	66	0.0	1.4	-1.4
8	220 kV	XELDEM-AMBEWADI	S/C	0	106	2.0	0.0	2.0
WR-SR						15.6	140.2	-124.6

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	-40	-1.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	95	94	94	2.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	81	0	43	1.0
	NER	132KV-SALAKATI - GELEPHU	23	0	-13	-0.3
	NER	132KV-RANGIA - DEOTHANG	51	0	-25	-0.6
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.3
	ER	132KV-BIHAR - NEPAL	-251	-32	-160	-3.8
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-276	-214	-248	-5.9
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-938	-246	-589	-14.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	70	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-60	-1.4