



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: 18<sup>th</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., 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 17.03.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17<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 18-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)	38981	50426	45097	19528	2424	156456
Peak Shortage (MW)	493	0	0	0	56	549
Energy Met (MU)	827	1187	1148	383	42	3586
Hydro Gen (MU)	143	64	80	33	4	325
Wind Gen (MU)	9	54	53	-	-	116
Solar Gen (MU)*	35.96	27.43	99.76	4.71	0.05	168
Energy Shortage (MU)	10.1	0.0	0.0	0.0	0.6	11
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42195 19:21	55308 11:02	52724 09:56	19266 19:03	2500 18:30	164409 09:47

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	0.033	0.00	0.08	3.17	3.25	74.10	22.65

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	4945	0	96.5	67.1	-0.3	136	0.0
	Haryana	5813	0	111.5	91.4	1.1	304	0.0
	Rajasthan	12291	0	213.6	56.2	-1.3	481	0.0
	Delhi	3420	0	60.2	48.8	-1.2	105	0.0
	UP	13608	0	240.9	110.0	0.8	1039	0.0
	Uttarakhand	1778	0	33.8	12.0	0.2	150	0.0
	HP	1511	0	24.1	17.8	-1.0	102	0.0
	J&K(UT) and Ladakh(UT)	1979	495	43.1	39.0	-4.0	39	10.1
	Chandigarh	196	0	3.2	3.2	0.0	22	0.0
WR	Chhattisgarh	3989	0	89.7	36.3	-0.8	616	0.0
	Gujarat	16447	0	349.9	85.7	3.5	974	0.0
	MP	10461	0	205.4	102.9	-1.7	517	0.0
	Maharashtra	24012	0	499.3	161.9	1.4	1075	0.0
	Goa	552	4	11.1	10.7	0.0	97	0.0
	DD	333	0	7.4	7.3	0.1	30	0.0
	DNH	807	0	18.9	18.9	0.0	41	0.0
	Essar steel	765	0	5.1	5.0	0.1	233	0.0
	SR	Andhra Pradesh	9980	0	205.1	101.5	-0.1	496
Telangana		12051	0	247.4	136.9	1.3	716	0.0
Karnataka		12854	0	256.9	85.9	0.5	761	0.0
Kerala		4068	0	84.5	63.9	1.5	198	0.0
Tamil Nadu		15481	0	346.2	191.4	-0.4	466	0.0
Puducherry		396	0	8.3	8.7	-0.4	29	0.0
ER	Bihar	4030	285	72.0	68.1	0.2	305	0.0
	DVC	3086	365	63.3	-41.1	0.1	368	0.0
	Jharkhand	1306	148	24.5	15.6	-0.1	148	0.0
	Odisha	4006	508	79.6	-0.7	0.7	508	0.0
	West Bengal	7352	369	142.0	39.5	0.1	374	0.0
	Sikkim	128	35	1.4	1.6	-0.2	35	0.0
NER	Arunachal Pradesh	118	2	2.0	2.3	-0.4	9	0.0
	Assam	1456	18	23.9	20.1	0.2	108	0.4
	Manipur	164	3	2.6	2.4	0.2	34	0.0
	Meghalaya	324	0	5.4	3.9	0.2	57	0.1
	Mizoram	98	2	1.7	1.4	0.2	18	0.0
	Nagaland	134	1	2.2	2.0	0.1	10	0.0
Tripura	248	0	3.8	2.8	-0.4	22	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.5	-14.2	-10.6
Day peak (MW)	316.5	-648.8	-776.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.1	-262.9	187.5	-117.7	5.9	-0.1
Actual(MU)	176.3	-258.3	196.1	-126.0	7.1	-4.7
O/D/U/D(MU)	-10.8	4.6	8.7	-8.3	1.2	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5530	15402	4502	1585	727	27747
State Sector	17070	15762	8535	4850	11	46228
Total	22600	31164	13037	6435	738	73974

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	376	1163	552	498	12	2601
Lignite	22	15	52	0	0	89
Hydro	143	64	80	33	4	325
Nuclear	24	37	62	0	0	123
Gas, Naptha & Diesel	30	82	18	0	23	154
RES (Wind, Solar, Biomass & Others)	73	92	187	5	0	357
Total	668	1454	951	536	39	3649

Share of RES in total generation (%)	10.86	6.35	19.68	0.88	0.13	9.78
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	35.84	13.29	34.64	7.08	11.31	22.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.096

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: 18-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	D/C	0	898	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	S/C	0	371	0.0	4.0	-4.0
5	765 kV	GAYA-BALIA	S/C	0	530	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	S/C	0	192	0.0	3.8	-3.8
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	138	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	820	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	Q/C	0	1086	0.0	17.1	-17.1
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	394	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	361	0.0	7.0	-7.0
12	400 kV	BIHARSHARIFF-VARANASI	D/C	80	360	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	161	0.0	3.1	-3.1
14	132 kV	SONE NAGAR-RHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RHAND	S/C	30	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
ER-NR						0.5	78.7	-78.2
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1350	0	25.4	0.0	25.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	600	262	3.2	0.0	3.2
3	765 kV	JHARSUGUDA-DURG	D/C	58	196	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	6	376	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	D/C	191	104	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	120	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	D/C	121	0	1.8	0.0	1.8
ER-WR						31.2	7.7	23.5
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	687	0.0	13.7	-13.7
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2464	0.0	49.7	-49.7
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3151	0.0	61.1	-61.1
4	400 kV	TALCHER-IC	D/C	0	747	0.0	6.6	-6.6
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	124.5	-124.5
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	D/C	145	103	1.0	0.0	1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	223	98	1.8	0.0	1.8
3	220 kV	ALIPURDUAR-SALAKATI	D/C	48	29	0.4	0.0	0.4
ER-NER						3.2	0.0	3.2
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	0	11.4	0.0	11.4
NER-NR						11.4	0.0	11.4
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	999	0.0	10.8	-10.8
2	HVDC	V'CHAL B/B	D/C	445	101	0.0	2.4	-2.4
3	HVDC	APL -MHG	D/C	0	1081	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	D/C	0	2295	0.0	39.4	-39.4
5	765 kV	PHAGI-GWALIOR	D/C	0	1479	0.0	20.5	-20.5
6	765 kV	JABALPUR-ORAI	D/C	0	771	0.0	25.7	-25.7
7	765 kV	GWALIOR-ORAI	S/C	626	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	S/C	0	1264	0.0	26.0	-26.0
9	765 kV	CHITORGARH-BANASKANTHA	D/C	289	499	1.2	2.2	-1.0
10	400 kV	ZERDA-KANKROLI	S/C	136	60	1.5	0.0	1.5
11	400 kV	ZERDA -BHINMAL	S/C	154	197	0.2	0.0	0.2
12	400 kV	V'CHAL -RIHAND	S/C	977	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	142	292	0.8	1.3	-0.5
14	220 kV	BHANPURA-RANPUR	S/C	10	72	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	S/C	0	139	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	S/C	102	0	1.3	0.0	1.3
17	220 kV	MALANPUR-AURAIYA	S/C	56	22	0.4	0.0	0.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						38.3	158.1	-119.7
<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	2531	0.0	41.0	-41.0
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3487	0.0	61.0	-61.0
5	400 kV	KOLHAPUR-KUDGI	D/C	842	0	10.2	0.0	10.2
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	92	0.0	1.4	-1.4
8	220 kV	XELDEM-AMBEWADI	S/C	1	103	1.5	0.0	1.5
WR-SR						11.7	127.3	-115.6

## 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	23	0	-29	-0.7
	ER	MANGDECHHU ( 4 x 180 ) ALIPURDUAR RECEIPT	107	104	96	2.3
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	77	14	34	0.8
	NER	132KV-SALAKATI - GELEPHU	23	0	-14	-0.3
NEPAL	NER	132KV-RANGIA - DEOTHANG	51	0	-24	-0.6
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-235	6	-268	-6.4
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-284	-226	-271	-6.5
	ER	Bheramara HVDC(Bangladesh)	-640	-180	-330	-7.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-56	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-56	-1.3