



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: 14<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 13.03.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 13<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 14-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)	37332	47331	44814	17470	2431	149378
Peak Shortage (MW)	576	0	0	0	44	620
Energy Met (MU)	772	1136	1125	359	42	3434
Hydro Gen (MU)	143	51	88	33	7	321
Wind Gen (MU)	8	38	33	-	-	78
Solar Gen (MU)*	34.32	31.50	94.50	1.29	0.04	162
Energy Shortage (MU)	9.0	0.0	0.0	0.0	0.7	10
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	39282 09:22	53728 11:25	52705 09:26	18648 18:40	2510 18:07	160136 09:36

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	0.029	0.00	0.00	3.24	3.24	78.28	18.48

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	4630	0	92.5	64.1	-0.5	179	0.0	
	Haryana	5383	0	100.7	93.1	0.6	206	0.0	
	Rajasthan	11435	483	206.4	66.6	-1.3	451	0.0	
	Delhi	3493	0	61.1	49.5	-0.7	157	0.0	
	UP	11000	415	207.0	100.4	0.1	657	0.0	
	Uttarakhand	1643	0	33.2	15.5	1.1	222	0.0	
	HP	1373	0	23.8	18.1	-1.7	33	0.3	
	J&K(UT) and Ladakh(UT)	2304	576	44.4	38.6	-1.8	257	8.7	
	Chandigarh	213	0	3.3	3.5	-0.2	28	0.0	
	WR	Chhattisgarh	3517	0	77.5	25.8	-0.8	298	0.0
Gujarat		15431	0	331.2	91.2	3.2	571	0.0	
MP		10611	0	203.6	104.3	-1.7	388	0.0	
Maharashtra		23217	0	482.7	143.7	-1.4	471	0.0	
Goa		467	0	10.3	10.1	-0.3	54	0.0	
DD		328	0	7.4	7.0	0.4	38	0.0	
DNH		798	0	18.6	18.6	0.0	42	0.0	
Essar steel		754	0	4.8	4.9	-0.1	296	0.0	
SR		Andhra Pradesh	9589	0	200.0	86.2	1.1	522	0.0
		Telangana	11719	0	233.4	139.3	-0.4	1142	0.0
	Karnataka	13030	0	259.2	84.7	1.4	536	0.0	
	Kerala	3975	0	82.5	63.7	1.3	261	0.0	
	Tamil Nadu	15392	0	341.5	179.9	-0.9	459	0.0	
	Puducherry	396	0	8.3	8.5	-0.2	33	0.0	
ER	Bihar	3625	0	66.9	60.7	-0.6	200	0.0	
	DVC	2853	0	59.2	-36.6	0.5	300	0.0	
	Jharkhand	1214	0	23.3	16.2	0.2	100	0.0	
	Odisha	4041	0	76.4	0.5	0.1	274	0.0	
	West Bengal	7336	0	132.2	37.0	1.4	360	0.0	
	Sikkim	116	0	1.4	1.8	-0.4	20	0.0	
NER	Arunachal Pradesh	125	2	2.1	2.8	-0.8	5	0.0	
	Assam	1421	18	23.6	20.4	-0.2	104	0.5	
	Manipur	178	3	2.7	2.5	0.2	25	0.0	
	Meghalaya	381	0	5.4	5.0	-0.4	56	0.1	
	Mizoram	93	1	1.7	1.6	-0.1	18	0.0	
	Nagaland	124	2	2.2	2.1	0.0	2	0.0	
	Tripura	247	0	4.0	2.9	-0.3	19	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.2	-9.7	-9.1
Day peak (MW)	323.5	-533.0	-765.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.2	-247.5	195.3	-133.6	8.1	-0.5
Actual(MU)	166.0	-248.5	211.3	-141.4	6.1	-6.6
O/D/U/D(MU)	-11.3	-1.0	16.0	-7.8	-2.1	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5376	15668	4802	1060	727	27632
State Sector	21475	16552	8735	5302	11	52075
Total	26851	32219	13537	6362	738	79707

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	342	1154	550	491	11	2547
Lignite	22	13	52	0	0	87
Hydro	143	51	88	33	7	321
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	25	62	17	0	22	127
RES (Wind, Solar, Biomass & Others)	69	76	166	1	0	312
Total	624	1392	918	525	41	3500

Share of RES in total generation (%)	10.99	5.45	18.10	0.25	0.10	8.91
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.66	11.74	32.59	6.46	17.60	21.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.077

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: 14-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	887	0.0	10.6	-10.6	
4	765 kV	SASARAM-FATEHPUR	S/C	0	524	0.0	6.4	-6.4	
5	765 kV	GAYA-BALIA	S/C	0	361	0.0	6.0	-6.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	129	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	4	596	0.0	7.1	-7.1	
9	400 kV	PATNA-BALIA	Q/C	0	984	0.0	15.5	-15.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	341	0.0	4.4	-4.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	323	0.0	5.5	-5.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	95	342	0.0	2.2	-2.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	133	0.0	2.6	-2.6	
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	0.2	0.0	0.2	
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	0.2	72.2	-72.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1310	0	22.8	0.0	22.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	242	614	0.0	5.0	-5.0	
3	765 kV	JHARSUGUDA-DURG	D/C	0	232	0.0	3.4	-3.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	197	331	0.0	1.8	-1.8	
5	400 kV	RANCHI-SIPAT	D/C	138	196	0.0	1.1	-1.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	15	65	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	82	1	0.8	0.0	0.8	
						ER-WR	23.6	11.4	12.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2470	0.0	46.9	-46.9	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3269	0.0	69.3	-69.3	
4	400 kV	TALCHER-IC	D/C	257	1039	0.0	7.9	-7.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	132.1	-132.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	190	129	1.7	0.0	1.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	278	143	2.6	0.0	2.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	56	43	0.5	0.0	0.5	
						ER-NER	4.8	0.0	4.8
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	640	0.0	27.2	-27.2	
2	HVDC	V'CHAL B/B	D/C	448	0	10.7	0.0	10.7	
3	HVDC	APL -MHG	D/C	0	1080	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	1714	0.0	31.2	-31.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1658	0.0	23.3	-23.3	
6	765 kV	JABALPUR-ORAI	D/C	0	649	0.0	22.1	-22.1	
7	765 kV	GWALIOR-ORAI	S/C	672	0	10.8	0.0	10.8	
8	765 kV	SATNA-ORAI	S/C	0	1147	0.0	24.4	-24.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	283	465	0.0	1.3	-1.3	
10	400 kV	ZERDA-KANKROLI	S/C	131	81	1.2	0.0	1.2	
11	400 kV	ZERDA -BHINMAL	S/C	217	243	0.9	0.0	0.9	
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUJALPUR	D/C	116	345	0.0	1.1	-1.1	
14	220 kV	BHANPURA-RANPUR	S/C	12	91	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	155	0.0	1.8	-1.8	
16	220 kV	MEHGAON-AURAIYA	S/C	117	0	1.5	0.0	1.5	
17	220 kV	MALANPUR-AURAIYA	S/C	78	0	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.3	160.2	-111.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	24.5	-24.5	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2479	0.0	44.0	-44.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3385	0.0	64.0	-64.0	
5	400 kV	KOLHAPUR-KUDGI	D/C	754	0	10.1	0.0	10.1	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	72	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	95	1.8	0.0	1.8	
						WR-SR	11.9	133.9	-122.0

**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	120	118	110	2.6
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	95	0	51	1.2
	NER	132KV-SALAKATI - GELEPHU	22	0	-15	-0.4
NEPAL	NER	132KV-RANGIA - DEOTHANG	25	0	-14	-0.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-196	-5	-110	-2.6
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-274	-208	-246	-5.9
	ER	Bheramara HVDC(Bangladesh)	-638	-161	-273	-6.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	64	0	-54	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	63	0	-54	-1.3