



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: 15th 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 14.03.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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 1800 hrs. from RLDCs)	37811	47985	44391	16201	2392	148780
Peak Shortage (MW)	504	0	0	0	50	554
Energy Met (MU)	791	1127	1117	337	41	3413
Hydro Gen (MU)	148	42	84	32	5	310
Wind Gen (MU)	8	58	34	-	-	100
Solar Gen (MU)*	37.99	30.30	91.42	1.21	0.04	161
Energy Shortage (MU)	11.5	0.0	0.0	0.0	1.2	12.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39746	52361	51771	17362	2434	158672
Time Of Maximum Demand Met (From NLDC SCADA)	19:29	10:53	09:45	19:38	18:03	09:45

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	0.038	0.00	0.00	6.97	6.97	75.07	17.96

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	4869	0	96.0	66.6	-0.1	178	0.0
	Haryana	5456	0	103.4	91.2	0.4	170	0.0
	Rajasthan	12099	0	209.3	63.2	-3.4	169	0.0
	Delhi	3306	0	58.3	46.7	-0.3	143	0.0
	UP	13050	0	213.3	102.9	-1.0	945	0.0
	Uttarakhand	1750	0	32.8	12.1	0.2	198	0.0
	HP	1534	0	25.5	19.1	-0.7	128	0.0
	J&K(UT) & Ladakh(LT)	2130	533	48.8	39.6	-0.3	147	11.5
	Chandigarh	192	0	3.4	3.4	-0.1	17	0.0
	Chhattisgarh	3527	0	77.6	27.3	-0.9	438	0.0
WR	Gujarat	15685	0	333.1	92.6	2.7	640	0.0
	MP	10192	0	199.1	100.0	-1.2	533	0.0
	Maharashtra	22558	0	476.3	148.2	-1.0	436	0.0
	Goa	467	0	9.9	9.8	-0.4	29	0.0
	DD	325	0	7.4	7.1	0.3	29	0.0
	DNH	796	0	18.6	18.6	0.0	59	0.0
	Essar steel	761	0	5.1	5.1	0.0	229	0.0
	Andhra Pradesh	9809	0	198.5	85.4	1.2	501	0.0
	Telangana	11813	0	235.9	134.0	0.3	592	0.0
	Karnataka	12546	0	253.5	86.3	0.2	650	0.0
ER	Kerala	3926	0	81.6	65.2	1.0	176	0.0
	Tamil Nadu	15019	0	339.2	186.2	-0.7	702	0.0
	Puducherry	387	0	8.2	8.5	-0.3	34	0.0
	Bihar	3380	0	52.5	52.3	-2.2	277	0.0
	DVC	2858	0	58.3	-38.7	0.2	316	0.0
	Jharkhand	1071	0	18.1	11.5	-2.3	92	0.0
	Odisha	3994	0	78.1	2.8	0.4	301	0.0
NER	West Bengal	6508	0	129.0	37.3	-0.1	343	0.0
	Sikkim	147	0	1.4	1.9	-0.5	43	0.0
	Arunachal Pradesh	121	2	2.2	2.2	-0.1	71	0.0
	Assam	1374	19	22.8	19.8	-0.4	121	1.0
	Manipur	187	2	2.7	2.5	0.2	51	0.0
	Meghalaya	361	0	5.3	4.0	0.0	65	0.1
	Mizoram	97	1	1.7	1.4	0.2	30	0.0
Tripura	125	2	2.2	2.1	0.1	10	0.0	
Tripura	244	1	3.9	3.1	0.7	102	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.6	-8.7	-14.0
Day Peak (MW)	524.2	-523.0	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.7	-234.9	175.7	-124.5	5.0	0.0
Actual(MU)	164.0	-224.6	203.7	-147.2	7.6	3.5
OD/UD(MU)	-14.8	10.3	28.0	-22.7	2.6	3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5376	16133	3802	460	727	26497
State Sector	19820	16921	8345	5302	11	50399
Total	25196	33053	12147	5762	738	76896

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	362	1104	554	484	11	2515
Lignite	19	13	53	0	0	85
Hydro	148	42	84	32	5	310
Nuclear	24	37	49	0	0	110
Gas, Naptha & Diesel	29	73	17	0	22	141
RES (Wind, Solar, Biomass & Others)	72	97	164	1	0	335
Total	654	1366	921	517	39	3496

Share of RES in total generation (%)	11.07	7.13	17.78	0.24	0.10	9.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.35	12.89	32.24	6.36	13.82	21.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.088

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: 15-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	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	0	811	0.0	11.4	-11.4	
4	765 kV	SASARAM-FATEHPUR	S/C	0	514	0.0	6.8	-6.8	
5	765 kV	GAYA-BALIA	S/C	0	406	0.0	6.5	-6.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	194	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	129	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	651	0.0	8.1	-8.1	
9	400 kV	PATNA-BALIA	Q/C	0	972	0.0	16.1	-16.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	372	0.0	5.0	-5.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	356	0.0	6.1	-6.1	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	80	346	0.0	2.6	-2.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	151	0.0	2.6	-2.6	
14	132 kV	SOME 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-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.3	77.2	-76.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1244	0	21.0	0.0	21.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	211	555	0.0	5.4	-5.4	
3	765 kV	JHARSUGUDA-DURG	D/C	0	229	0.0	3.7	-3.7	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	212	255	0.0	1.4	-1.4	
5	400 kV	RANCHI-SIPAT	D/C	69	190	0.0	1.6	-1.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	38	90	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	111	12	1.3	0.0	1.3	
						ER-WR	22.3	13.1	9.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	687	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2473	0.0	46.9	-46.9	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3292	0.0	67.2	-67.2	
4	400 kV	TALCHER-I/C	D/C	312	968	0.0	6.1	-6.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	130.0	-130.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	159	222	1.0	0.0	1.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	259	254	1.9	0.0	1.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	51	47	0.4	0.0	0.4	
						ER-NER	3.4	0.0	3.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	466	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	155	0.0	25.7	-25.7	
2	HVDC	VCHAL B/B	D/C	448	0	7.5	0.0	7.5	
3	HVDC	APL -MHG	D/C	0	1079	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	1737	0.0	27.4	-27.4	
5	765 kV	PHAGI-GWALIOR	D/C	0	1166	0.0	19.1	-19.1	
6	765 kV	JABALPUR-ORAI	D/C	0	657	0.0	19.2	-19.2	
7	765 kV	GWALIOR-ORAI	S/C	700	0	10.2	0.0	10.2	
8	765 kV	SATNA-ORAI	S/C	0	1116	0.0	22.7	-22.7	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	424	501	0.0	1.2	-1.2	
10	400 kV	ZERDA-KANKROLI	S/C	180	47	1.4	0.0	1.4	
11	400 kV	ZERDA -BHINMAL	S/C	215	219	0.0	0.0	0.0	
12	400 kV	VCHAL -RIHAND	S/C	972	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	178	274	0.0	0.6	-0.6	
14	220 kV	BHANPURA-RANPUR	S/C	18	67	0.1	1.0	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	0	127	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	105	0	1.5	0.0	1.5	
17	220 kV	MALANPUR-AURAIYA	S/C	68	5	0.7	0.0	0.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	43.9	145.2	-101.3
Import/Export of WR (With SR)									
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	2620	0.0	42.9	-42.9	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3211	0.0	59.8	-59.8	
5	400 kV	KOLHAPUR-KUDGI	D/C	821	0	11.4	0.0	11.4	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	60	0.0	1.2	-1.2	
8	220 kV	XELDEM-AMBEWADI	S/C	0	94	1.8	0.0	1.8	
						WR-SR	13.1	128.0	-114.9

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	-38	-0.9
	ER	MANGDECHRU (4 x 180) ALIPURDUAR RECEIPT	327	104	98	2.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	88	59	68	1.6
	NER	132KV-SALAKATI - GELEPHU	20	0	-13	-0.3
NEPAL	NR	132KV-RANGIA - DEOTHANG	18	0	-9	-0.2
	ER	132KV-Tanakpur(NR) - Mahendranagar(PG)	0	0	0	-1.0
	ER	132KV-BIHAR - NEPAL	-190	-20	-61	-1.5
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-278	-240	-261	-6.3
	ER	Bheramara HVDC(Bangladesh)	-940	-248	-469	-11.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-58	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-58	-1.4