



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: 10th 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 09.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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 10-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)	35968	46600	43644	15293	2298	143803
Peak Shortage (MW)	543	0	0	0	52	595
Energy Met (MU)	778	1159	1078	327	41	3383
Hydro Gen (MU)	130	44	84	28	7	294
Wind Gen (MU)	18	52	23	-	-	93
Solar Gen (MU)*	42.91	26.80	72.98	1.67	0.03	144
Energy Shortage (MU)	11.5	0.0	0.0	0.0	1.1	13
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	39269 09:22	55264 11:25	50335 09:26	16885 18:40	2295 18:07	159231 09:35

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	0.036	0.00	0.00	4.73	4.73	72.35	22.92

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	4902	0	92.2	66.9	-0.9	167	0.0
	Haryana	4800	0	89.9	69.4	0.0	260	0.0
	Rajasthan	11511	0	198.2	47.8	-2.4	286	0.0
	Delhi	3524	0	58.0	42.7	-1.3	137	0.0
	UP	12524	0	230.7	110.6	-0.5	321	0.0
	Uttarakhand	1748	0	31.1	17.7	0.9	162	0.0
	HP	1559	0	26.4	20.7	-1.5	64	0.0
	J&K(UT) and Ladakh(UT)	2651	663	48.8	42.2	-1.7	355	11.5
	Chandigarh	205	0	3.3	3.4	-0.1	15	0.0
WR	Chhattisgarh	3687	0	82.7	31.2	-1.6	308	0.0
	Gujarat	15183	0	323.8	108.5	4.2	813	0.0
	MP	11738	0	223.3	108.3	-1.0	461	0.0
	Maharashtra	23719	0	487.6	156.3	-0.5	568	0.0
	Goa	490	0	10.3	10.2	-0.4	35	0.0
	DD	314	0	7.1	7.0	0.1	25	0.0
	DNH	794	0	18.6	18.7	-0.1	35	0.0
	Essar steel	784	0	5.3	5.1	0.2	264	0.0
	Andhra Pradesh	9136	0	187.7	86.7	0.8	483	0.0
SR	Telangana	10981	0	220.8	121.5	-0.4	760	0.0
	Karnataka	13003	0	253.3	88.8	2.4	663	0.0
	Kerala	3838	0	80.3	62.5	2.0	200	0.0
	Tamil Nadu	15008	0	328.5	185.1	-0.6	643	0.0
	Pondy	367	0	7.7	7.9	-0.3	30	0.0
	Bihar	3717	0	67.3	61.2	-1.7	403	0.0
ER	DVC	2935	0	61.8	-32.0	1.6	302	0.0
	Jharkhand	1223	0	23.6	15.8	-1.2	124	0.0
	Odisha	3825	0	73.1	9.2	-0.2	374	0.0
	West Bengal	5573	0	100.0	23.0	0.5	343	0.0
	Sikkim	97	0	1.3	1.6	-0.4	3	0.0
	Arunachal Pradesh	112	3	2.2	2.4	-0.3	4	0.0
NER	Assam	1320	41	22.6	17.4	1.0	103	0.9
	Manipur	172	4	2.6	2.5	0.1	37	0.0
	Meghalaya	346	1	5.7	3.8	0.4	84	0.1
	Mizoram	99	4	1.6	1.4	-0.1	22	0.0
	Nagaland	109	3	2.1	2.0	0.1	10	0.0
	Tripura	225	11	3.9	1.6	0.4	32	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.1	-6.9	-16.5
Day peak (MW)	272.5	-374.8	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.3	-253.4	172.8	-100.5	7.9	-0.9
Actual(MU)	147.6	-263.2	215.5	-111.5	12.0	0.5
O/D/U/D(MU)	-24.7	-9.8	42.7	-11.0	4.1	1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5670	12585	5462	1200	727	25644
State Sector	19665	16870	7735	5752	11	50033
Total	25335	29454	13197	6952	738	75676

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	361	1171	532	443	11	2518
Lignite	18	17	49	0	0	84
Hydro	130	44	84	28	7	294
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	28	66	17	0	16	127
RES (Wind, Solar, Biomass & Others)	88	91	142	2	0	322
Total	649	1425	869	473	34	3450

Share of RES in total generation (%)	13.54	6.38	16.32	0.37	0.09	9.35
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.33	12.04	31.14	6.34	20.01	20.91

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.082

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: 10-Mar-20

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	502	0.0	6.0	-6.0	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	5.8	-5.8	
3	765 kV	GAYA-VARANASI	D/C	104	524	0.0	3.3	-3.3	
4	765 kV	SASARAM-FATEHPUR	S/C	122	255	0.0	1.2	-1.2	
5	765 kV	GAYA-BALIA	S/C	0	267	0.0	3.9	-3.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	222	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	103	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	263	359	0.0	1.2	-1.2	
9	400 kV	PATNA-BALIA	Q/C	0	862	0.0	10.5	-10.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	28	272	0.0	2.3	-2.3	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	303	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	190	212	1.0	0.0	1.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	140	0.0	2.9	-2.9	
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	1.2	47.9	-46.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1705	0	32.2	0.0	32.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	418	292	3.3	0.0	3.3	
3	765 kV	JHARSUGUDA-DURG	D/C	93	189	0.0	1.1	-1.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	202	181	0.0	0.2	-0.2	
5	400 kV	RANCHI-SIPAT	D/C	200	64	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	18	95	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	122	0	1.7	0.0	1.7	
						ER-WR	39.7	2.4	37.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	683	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2468	0.0	48.5	-48.5	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3374	0.0	66.4	-66.4	
4	400 kV	TALCHER-IC	D/C	0	982	0.0	8.8	-8.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	130.8	-130.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	477	0.0	7.2	-7.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	649	0.0	8.3	-8.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	113	0.0	1.8	-1.8	
						ER-NER	0.0	17.3	-17.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	1	502	0.0	5.5	-5.5	
						NER-NR	0.0	5.5	-5.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	11.6	-11.6	
2	HVDC	V'CHAL B/B	D/C	449	489	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1080	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2205	0.0	35.0	-35.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1403	0.0	17.6	-17.6	
6	765 kV	JABALPUR-ORAI	D/C	0	723	0.0	23.0	-23.0	
7	765 kV	GWALIOR-ORAI	S/C	566	0	8.6	0.0	8.6	
8	765 kV	SATNA-ORAI	S/C	0	1373	0.0	28.4	-28.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	494	565	0.0	0.5	-0.5	
10	400 kV	ZERDA-KANKROLI	S/C	185	59	2.0	0.0	2.0	
11	400 kV	ZERDA -BHINMAL	S/C	381	155	1.9	0.0	1.9	
12	400 kV	V'CHAL -RIHAND	S/C	971	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	D/C	223	221	0.3	0.0	0.3	
14	220 kV	BHANPURA-RANPUR	S/C	30	67	0.0	1.0	-1.0	
15	220 kV	BHANPURA-MORAK	S/C	0	139	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	80	0	0.8	0.0	0.8	
17	220 kV	MALANPUR-AURAIYA	S/C	47	12	0.3	0.0	0.3	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.3	145.5	-97.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	20.5	-20.5	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	3190	0.1	53.5	-53.5	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3317	0.0	61.2	-61.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	643	26	7.8	0.0	7.8	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	62	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	94	1.8	0.0	1.8	
						WR-SR	9.7	136.5	-126.8

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	-63	-1.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	103	100	93	2.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	79	0	33	0.8
	NER	132KV-SALAKATI - GELEPHU	17	0	-10	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	20	0	-10	-0.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-59	-11	-27	-0.6
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-260	-160	-213	-5.1
	ER	Bheramara HVDC(Bangladesh)	-953	-252	-589	-14.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-49	-1.2