National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 12th Mar 2021

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., डोंगतिएह, 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 11.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-मार्च-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 11th March 2021, 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:** **12-Mar-2021**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	47870	53832	46220	21768	2549	172239
Peak Shortage (MW)	810	0	0	0	53	863
Energy Met (MU)	1069	1322	1173	444	43	4052
Hydro Gen (MU)	108	48	87	33	10	286
Wind Gen (MU)	16	39	38	-	-	93
Solar Gen (MU)*	48.39	34.57	112.93	5.34	0.08	201
Energy Shortage (MU)	10.82	0.23	0.00	0.00	3.94	14.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51015	58786	57195	22019	2837	186036
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	11:27	11:56	19:07	18:06	10:24

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	2.57	2.57	71.82	25.61

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	6391	0	141.2	64.1	-0.5	162	0.15
	Haryana	6790	0	142.0	83.7	0.7	173	0.00
	Rajasthan	13410	0	255.5	76.5	-0.5	358	0.29
	Delhi	3534	0	69.2	53.0	-1.2	182	0.00
	UP	17742	150	338.8	113.9	0.0	394	0.38
	Uttarakhand	1965	0	37.8	21.1	0.6	136	0.00
	HP	1701	0	30.2	24.8	0.5	265	0.00
	J&K(UT) & Ladakh(UT)	2543	500	50.9	44.7	-0.4	220	10.00
	Chandigarh	182	0	3.1	3.2	0.0	16	0.00
WR	Chhattisgarh	4531	0	106.1	63.2	1.4	310	0.23
	Gujarat	17334	0	382.4	145.2	2.7	858	0.00
	MP	12467	0	242.5	137.4	-2.6	537	0.00
	Maharashtra	24854	0	534.2	163.7	-2.6	718	0.00
	Goa	544	0	11.7	11.5	-0.3	22	0.00
	DD	330	0	6.8	6.4	0.4	47	0.00
	DNH	871	0	20.4	20.2	0.2	44	0.00
	AMNSIL	818	0	18.5	1.3	0.2	265	0.00
SR	Andhra Pradesh	11145	0	211.4	85.7	2.0	798	0.00
	Telangana	13527	0	273.3	153.7	2.4	894	0.00
	Karnataka	13837	0	265.8	90.3	2.3	858	0.00
	Kerala	3699	0	76.8	54.1	0.7	377	0.00
	Tamil Nadu	15525	0	337.7	199.8	-0.4	668	0.00
	Puducherry	397	0	8.3	8.5	-0.2	16	0.00
ER	Bihar	5244	0	95.1	85.3	2.9	424	0.00
	DVC	3176	0	66.2	-49.9	-2.1	256	0.00
	Jharkhand	1346	0	26.9	19.8	-1.7	129	0.00
	Odisha	4642	0	100.5	28.9	-0.5	625	0.00
	West Bengal	8256	0	154.6	21.2	-0.2	518	0.00
	Sikkim	79	0	1.0	1.8	-0.7	6	0.00
NER	Arunachal Pradesh	124	5	2.3	2.2	0.0	19	0.01
	Assam	1568	35	23.9	19.5	0.2	183	3.90
	Manipur	204	4	2.7	2.6	0.1	27	0.01
	Meghalaya	355	0	6.0	5.0	0.0	31	0.00
	Mizoram	102	3	1.6	1.4	-0.1	16	0.01
	Nagaland	127	2	2.2	1.9	0.2	37	0.01
	Tripura	255	3	4.2	3.3	0.4	76	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.2	-13.7	-21.0
Day Peak (MW)	257.0	-608.0	-912.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	189.3	-264.4	207.5	-131.8	-0.6	0.0
Actual(MU)	179.4	-269.8	212.3	-129.1	0.3	-6.8
O/D/U/D(MU)	-9.9	-5.4	4.8	2.7	1.0	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5490	14198	7172	1548	539	28947	44
State Sector	12672	13859	7667	3157	11	37366	56
Total	18162	28057	14839	4705	551	66313	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	632	1402	609	575	15	3233	78
Lignite	27	10	43	0	0	80	2
Hydro	108	48	87	33	10	286	7
Nuclear	26	21	37	0	0	84	2
Gas, Naptha & Diesel	30	56	16	0	23	125	3
RES (Wind, Solar, Biomass & Others)	91	74	187	5	0	358	9
Total	914	1612	978	613	48	4166	100

Share of RES in total generation (%)	9.99	4.62	19.06	0.87	0.17	8.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.68	8.92	31.73	6.27	20.63	17.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.073

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: 12-Mar-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	617	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	0	266	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	446	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	85	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	559	0.0	9.8	-9.8
9	400 kV	PATNA-BALIA	4	0	1109	0.0	22.3	-22.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	407	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	305	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	6	159	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	27	81	0.0	0.8	-0.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	82.8	-82.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1446	0	21.2	0.0	21.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	566	963	0.0	1.1	-1.1
3	765 kV	JHARSUGUDA-DURG	2	48	250	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	402	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	101	315	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	89	18	0.7	0.0	0.7
					ER-WR	21.8	13.9	7.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	586	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2478	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3060	0.0	57.4	-57.4
4	400 kV	TALCHER-I/C	2	261	631	0.0	3.1	-3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	117.2	-117.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	307	0	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	396	0	5.7	0.0	5.7
3	220 kV	ALIPURDUAR-SALAKATI	2	64	0	1.3	0.0	1.3
					ER-NER	10.9	0.0	10.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	751	0.0	32.6	-32.6
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	983	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2196	0.0	34.3	-34.3
5	765 kV	PHAGI-GWALIOR	2	0	1404	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	900	0.0	29.9	-29.9
7	765 kV	GWALIOR-ORAI	1	731	0	14.4	0.0	14.4
8	765 kV	SATNA-ORAI	1	0	1381	0.0	27.7	-27.7
9	765 kV	CHITORGARH-BANASKANTHA	2	743	287	7.2	0.0	7.2
10	400 kV	ZERDA-KANKROLI	1	261	0	3.3	0.0	3.3
11	400 kV	ZERDA -BHINMAL	1	386	45	3.5	0.0	3.5
12	400 kV	VINDHYACHAL -RIHAND	1	985	0	23.1	0.0	23.1
13	400 kV	RAPP-SHUJALPUR	2	23	425	0.0	4.6	-4.6
14	220 kV	BHANPURA-RANPUR	1	12	128	0.0	0.2	-0.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	142	0	1.0	1.9	-0.9
17	220 kV	MALANPUR-AURAIYA	1	93	24	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.8	-0.8
					WR-NR	58.9	181.6	-122.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	15.2	-15.2
2	HVDC	RAIGARH-PUGALUR	2	0	1508	0.0	49.3	-49.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2227	0.0	32.2	-32.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3458	0.0	59.7	-59.7
5	400 kV	KOLHAPUR-KUDGI	2	1096	0	13.4	0.0	13.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	87	1.8	0.0	1.8
					WR-SR	15.2	156.4	-141.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	130	94	120	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	85	0	54	1.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.0
	NER	132KV-GEYLEGPHU - SALAKATI	32	14	23	0.6
	NER	132kV Motanga-Rangia	22	-3	6	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-344	-254	-340	-8.2
	ER	132KV-BIHAR - NEPAL	-264	-40	-161	-3.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-744	-735	-739	-17.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-68	-1.6