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: 11th 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 10.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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: 11-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)	47899	55344	46817	21182	2511	173753
Peak Shortage (MW)	1643	238	0	0	54	1935
Energy Met (MU)	1057	1336	1184	445	43	4065
Hydro Gen (MU)	111	50	93	34	8	296
Wind Gen (MU)	5	29	45	-	-	79
Solar Gen (MU)*	43.82	37.45	116.15	4.52	0.18	202
Energy Shortage (MU)	14.17	0.90	0.00	0.00	1.88	16.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50998	59602	56591	21295	2561	185199
Time Of Maximum Demand Met (From NLDC SCADA)	19:33	15:35	10:53	20:07	18:04	10:53

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	0.044	0.00	1.10	11.72	12.82	75.23	11.94

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	6367	200	137.2	62.8	-0.1	133	0.95
	Haryana	6757	0	138.5	82.5	1.4	239	1.09
	Rajasthan	12894	0	256.2	89.5	3.3	459	1.66
	Delhi	3584	0	67.9	52.5	-1.0	151	0.00
	UP	18176	0	331.9	125.1	-2.8	268	0.00
	Uttarakhand	2029	0	38.0	20.9	0.8	129	0.47
	HP	1717	0	31.6	24.9	1.5	291	0.00
	J&K(UT) & Ladakh(UT)	2768	500	52.4	44.9	0.4	328	10.00
	Chandigarh	189	0	3.4	3.2	0.2	37	0.00
WR	Chhattisgarh	4600	0	106.8	54.3	1.6	571	0.90
	Gujarat	17466	0	378.6	140.1	5.3	1003	0.00
	MP	12479	0	252.7	139.8	-0.7	541	0.00
	Maharashtra	24862	0	538.3	167.2	-3.8	693	0.00
	Goa	599	0	12.2	11.9	-0.2	64	0.00
	DD	355	0	8.0	7.6	0.4	199	0.00
	DNH	888	0	20.6	20.3	0.3	347	0.00
	AMNSIL	830	0	18.5	1.2	0.2	233	0.00
SR	Andhra Pradesh	10853	0	212.2	85.8	0.6	537	0.00
	Telangana	13310	0	271.6	149.5	1.1	716	0.00
	Karnataka	13650	0	265.8	80.7	0.0	663	0.00
	Kerala	3943	0	83.0	55.7	-0.1	293	0.00
	Tamil Nadu	15763	0	342.7	198.1	-1.6	823	0.00
	Puducherry	406	0	8.4	8.4	0.1	33	0.00
ER	Bihar	5109	0	94.0	83.4	2.3	419	0.00
	DVC	4435	0	63.8	-46.5	-2.5	535	0.00
	Jharkhand	1478	0	27.5	19.4	-0.6	209	0.00
	Odisha	4875	0	100.5	27.1	0.0	727	0.00
	West Bengal	7330	0	158.0	20.9	-1.2	675	0.00
	Sikkim	99	0	1.2	1.8	-0.7	98	0.00
NER	Arunachal Pradesh	125	3	2.2	2.0	0.2	36	0.01
	Assam	1505	43	24.2	19.3	0.3	104	1.70
	Manipur	198	5	2.5	2.5	-0.1	42	0.01
	Meghalaya	352	0	6.2	5.0	0.0	71	0.14
	Mizoram	101	4	1.6	1.4	-0.1	26	0.01
	Nagaland	126	3	2.2	1.9	0.2	21	0.01
	Tripura	253	6	4.2	2.9	0.1	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.2	-14.5	-20.4
Day Peak (MW)	186.0	-717.4	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.7	-271.3	193.9	-131.2	0.9	0.0
Actual(MU)	207.4	-272.2	179.0	-122.3	1.1	-7.0
O/D/U/D(MU)	-0.4	-0.9	-14.9	8.9	0.2	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5490	15208	7172	1548	772	30190	43
State Sector	13332	15048	7292	4317	11	39999	57
Total	18822	30255	14464	5865	783	70189	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	609	1434	634	568	15	3261	78
Lignite	28	10	42	0	0	80	2
Hydro	111	50	93	34	8	295	7
Nuclear	23	21	37	0	0	81	2
Gas, Naptha & Diesel	30	42	16	0	24	112	3
RES (Wind, Solar, Biomass & Others)	75	67	199	5	0	346	8
Total	876	1625	1021	607	47	4176	100

Share of RES in total generation (%)	8.56	4.15	19.48	0.75	0.38	8.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.83	8.52	32.18	6.34	16.81	17.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.091

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: 11-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	657	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	0	306	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	488	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	0	214	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	79	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	654	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	4	0	1236	0.0	24.5	-24.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	407	0.0	7.5	-7.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	9	168	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	61	97	0.0	0.7	-0.7
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	35	0.0	0.0	0.0
					ER-NR	0.4	85.1	-84.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1103	224	12.2	0.0	12.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	515	703	0.0	1.2	-1.2
3	765 kV	JHARSUGUDA-DURG	2	11	365	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	519	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	110	249	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	197	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	91	27	0.6	0.0	0.6
					ER-WR	12.9	16.2	-3.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	696	0.0	13.1	-13.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2468	0.0	28.2	-28.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2817	0.0	54.1	-54.1
4	400 kV	TALCHER-I/C	2	1783	625	16.7	0.0	16.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	95.4	-95.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	238	25	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	404	0	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	63	0	0.7	0.0	0.7
					ER-NER	9.5	0.0	9.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	751	0.0	35.9	-35.9
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	2405	0.0	37.1	-37.1
5	765 kV	PHAGI-GWALIOR	2	0	1475	0.0	26.6	-26.6
6	765 kV	JABALPUR-ORAI	2	1018	1013	0.0	33.6	-33.6
7	765 kV	GWALIOR-ORAI	1	777	0	14.8	0.0	14.8
8	765 kV	SATNA-ORAI	1	0	1466	0.0	29.0	-29.0
9	765 kV	CHITORGARH-BANASKANTHA	2	547	398	4.2	0.0	4.2
10	400 kV	ZERDA-KANKROLI	1	171	43	2.1	0.0	2.1
11	400 kV	ZERDA -BHINMAL	1	220	172	1.2	0.0	1.2
12	400 kV	VINDHYACHAL -RIHAND	1	997	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	0	438	0.0	6.2	-6.2
14	220 kV	BHANPURA-RANPUR	1	0	170	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	131	0	1.9	1.8	0.2
17	220 kV	MALANPUR-AURAIYA	1	82	15	1.5	0.0	1.5
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	0.7	-0.7
					WR-NR	54.6	198.1	-143.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	22.5	-22.5
2	HVDC	RAIGARH-PUGALUR	2	0	1515	0.0	53.1	-53.1
3	765 kV	SOLAPUR-RAICHUR	2	264	2125	0.0	25.4	-25.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2901	0.0	50.9	-50.9
5	400 kV	KOLHAPUR-KUDGI	2	1089	0	0.0	18.9	-18.9
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	1	82	1.1	0.0	1.1
					WR-SR	1.1	170.7	-169.6

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)	95	84	88	2.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	107	0	73	1.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	41	0	-27	-0.7
	NER	132KV-GEYLEGPHU - SALAKATI	-34	-9	22	0.5
	NER	132kV Motanga-Rangia	-23	0	10	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-331	-114	-312	-7.5
	ER	132KV-BIHAR - NEPAL	-307	-45	-221	-5.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-746	0	-740	-17.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-55	-1.3