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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd 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 22.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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:** **23-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)	45135	53046	47097	23037	2659	170974
Peak Shortage (MW)	400	0	0	0	132	532
Energy Met (MU)	963	1280	1189	484	46	3962
Hydro Gen (MU)	107	34	99	36	8	283
Wind Gen (MU)	23	45	30	-	-	98
Solar Gen (MU)*	34.91	34.63	100.53	5.02	0.12	175
Energy Shortage (MU)	7.87	0.00	0.00	0.00	1.99	9.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47360	56927	57205	23298	2908	179863
Time Of Maximum Demand Met (From NLDC SCADA)	19:28	11:30	11:44	19:17	18:16	11:20

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	0.054	0.00	1.18	13.03	14.21	72.61	13.18

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	5686	0	111.3	50.9	-1.2	196	0.00
	Haryana	5883	0	119.3	73.8	0.1	229	0.00
	Rajasthan	10883	0	216.2	45.7	-2.0	753	0.00
	Delhi	3596	0	72.8	56.3	-0.7	201	0.00
	UP	17549	0	323.9	123.5	-4.1	305	0.22
	Uttarakhand	1885	0	37.1	24.2	-0.5	211	0.05
	HP	1589	0	29.4	23.6	-0.2	222	0.00
	J&K(UT) & Ladakh(UT)	2486	400	49.5	39.8	0.4	310	7.60
	Chandigarh	185	0	3.4	3.3	0.0	23	0.00
WR	Chhattisgarh	4604	0	108.1	56.5	-0.6	383	0.00
	Gujarat	18475	0	392.2	165.1	2.0	646	0.00
	MP	10835	0	217.0	116.5	-3.0	698	0.00
	Maharashtra	23471	0	507.2	152.6	-3.2	533	0.00
	Goa	555	0	12.1	11.5	0.1	55	0.00
	DD	341	0	7.5	7.3	0.2	18	0.00
	DNH	840	0	17.5	17.6	-0.1	77	0.00
	AMNSIL	821	0	18.4	1.2	0.1	276	0.00
SR	Andhra Pradesh	11008	0	216.1	90.9	0.3	504	0.00
	Telangana	13519	0	273.7	146.6	0.8	541	0.00
	Karnataka	13805	0	262.0	113.5	2.3	926	0.00
	Kerala	4063	0	83.2	57.8	-0.1	191	0.00
	Tamil Nadu	16146	0	345.8	222.2	1.0	588	0.00
	Puducherry	398	0	8.4	8.5	-0.1	21	0.00
ER	Bihar	5354	0	100.3	87.3	2.5	536	0.00
	DVC	3238	0	70.2	-50.1	-0.6	343	0.00
	Jharkhand	1480	0	27.4	20.1	-1.1	182	0.00
	Odisha	5198	0	108.4	37.3	-0.7	395	0.00
	West Bengal	8518	0	176.7	38.4	-1.0	234	0.00
	Sikkim	85	0	1.1	1.4	-0.3	41	0.00
NER	Arunachal Pradesh	210	1	2.3	2.4	-0.2	26	0.01
	Assam	1678	20	28.2	23.9	0.0	123	0.30
	Manipur	205	1	2.4	2.6	-0.2	33	0.01
	Meghalaya	257	86	4.3	3.2	-0.1	41	1.65
	Mizoram	111	1	1.6	1.5	-0.1	16	0.01
	Nagaland	138	1	2.3	2.2	0.0	16	0.01
	Tripura	275	0	4.6	3.7	0.3	44	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.4	-16.2	-21.2
Day Peak (MW)	354.0	-808.9	-912.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.7	-306.6	236.6	-89.4	6.6	0.0
Actual(MU)	143.0	-317.7	248.0	-81.1	5.2	-2.7
O/D/U/D(MU)	-9.7	-11.1	11.4	8.3	-1.4	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5071	12438	6552	2528	1072	27661	40
State Sector	13467	14212	8989	4117	11	40796	60
Total	18538	26650	15541	6645	1083	68456	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	576	1418	604	571	15	3184	78
Lignite	19	10	36	0	0	65	2
Hydro	107	34	99	36	8	283	7
Nuclear	27	16	41	0	0	84	2
Gas, Naptha & Diesel	28	44	16	0	24	111	3
RES (Wind, Solar, Biomass & Others)	85	81	164	5	0	334	8
Total	841	1602	960	611	47	4061	100

Share of RES in total generation (%)	10.08	5.04	17.05	0.82	0.26	8.23
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.96	8.14	31.65	6.64	16.93	17.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.086

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: 23-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	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	4	561	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	51	264	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	383	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	240	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	94	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	45	624	0.0	6.7	-6.7
9	400 kV	PATNA-BALIA	4	0	881	0.0	15.8	-15.8
10	400 kV	BIHARSHARIFF-BALIA	2	115	214	0.0	2.0	-2.0
11	400 kV	MOTIHARI-GORAKHPUR	2	75	136	6.7	0.0	6.7
12	400 kV	BIHARSHARIFF-VARANASI	2	30	223	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	25	187	0.0	1.7	-1.7
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	0	0.0	0.0	0.0
					ER-NR	7.1	57.3	-50.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1659	0	31.4	0.0	31.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	938	558	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	233	254	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	238	215	0.0	0.0	0.0
5	400 kV	RANCHI-SIPAT	2	225	196	0.0	0.1	-0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	150	0	1.7	0.0	1.7
					ER-WR	37.3	4.7	32.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	354	0.0	8.3	-8.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2480	0.0	50.5	-50.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3087	0.0	61.8	-61.8
4	400 kV	TALCHER-I/C	2	0	658	0.0	5.5	-5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	120.6	-120.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	170	31	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	320	0	3.7	0.0	3.7
3	220 kV	ALIPURDUAR-SALAKATI	2	51	7	0.3	0.0	0.3
					ER-NER	6.0	0.0	6.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	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	2	0	1000	0.0	33.7	-33.7
2	HVDC	VINDHYACHAL B/B	-	275	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	982	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2804	0.0	41.4	-41.4
5	765 kV	PHAGI-GWALIOR	2	0	1337	0.0	19.9	-19.9
6	765 kV	JABALPUR-ORAI	2	441	871	0.0	25.5	-25.5
7	765 kV	GWALIOR-ORAI	1	655	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	1469	0.0	28.8	-28.8
9	765 kV	CHITORGARH-BANASKANTHA	2	1150	27	15.7	0.0	15.7
10	400 kV	ZERDA-KANKROLI	1	333	0	5.5	0.0	5.5
11	400 kV	ZERDA -BHINMAL	1	457	0	7.2	0.0	7.2
12	400 kV	VINDHYACHAL -RIHAND	1	979	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	72	342	0.0	2.2	-2.2
14	220 kV	BHANPURA-RANPUR	1	44	66	0.5	0.2	0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.3	0.5	-0.2
16	220 kV	MEHGAON-AURAIYA	1	130	91	0.1	0.4	-0.3
17	220 kV	MALANPUR-AURAIYA	1	84	70	0.1	1.2	-1.1
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	0.0	0.0
					WR-NR	69.0	177.9	-108.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	1514	0.0	64.6	-64.6
3	765 kV	SOLAPUR-RAICHUR	2	0	2377	0.0	40.4	-40.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3536	0.0	60.1	-60.1
5	400 kV	KOLHAPUR-KUDGI	2	828	0	13.1	0.0	13.1
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	88	1.8	0.0	1.8
					WR-SR	14.9	189.1	-174.2

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)	154	0	96	2.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	145	0	18	0.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	12	0	-13	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	25	1	12	0.3
	NER	132kV Motanga-Rangia	19	1	-10	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-77	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-376	-250	-313	-7.5
	ER	132KV-BIHAR - NEPAL	-356	-209	-287	-6.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-734	-726	-732	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	89	0	-76	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	89	0	-76	-1.8