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: 22nd 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 21.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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:** **22-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)	45327	51465	42561	22402	2459	164214
Peak Shortage (MW)	646	0	0	0	215	861
Energy Met (MU)	1016	1244	1130	470	45	3905
Hydro Gen (MU)	100	29	63	34	7	234
Wind Gen (MU)	21	57	30	-	-	108
Solar Gen (MU)*	42.31	31.20	104.72	5.02	0.16	183
Energy Shortage (MU)	9.39	0.10	0.00	0.00	1.99	11.48
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47925	54381	53206	22534	2714	173646
Time Of Maximum Demand Met (From NLDC SCADA)	19:21	15:31	10:30	19:40	18:18	11:31

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	0.039	0.00	0.27	6.45	6.71	71.82	21.47

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	7506	0	147.2	64.6	-2.2	64	0.00
	Haryana	5810	0	126.0	75.1	-0.5	217	0.00
	Rajasthan	11560	0	227.2	52.3	-0.9	537	0.30
	Delhi	3295	0	67.0	52.0	-1.4	82	0.01
	UP	18033	0	333.6	125.7	-1.2	521	1.48
	Uttarakhand	1806	0	35.5	21.7	0.3	124	0.00
	HP	1501	0	28.4	23.1	0.2	161	0.00
	J&K(UT) & Ladakh(UT)	2480	400	48.4	41.0	-0.3	182	7.60
	Chandigarh	163	0	3.0	3.1	-0.1	10	0.00
WR	Chhattisgarh	4498	0	105.0	56.5	-1.2	236	0.00
	Gujarat	17312	0	378.9	162.9	2.7	1176	0.00
	MP	10416	0	215.4	115.3	-2.9	497	0.00
	Maharashtra	22056	0	487.7	155.3	-2.4	583	0.00
	Goa	484	0	11.2	10.2	0.5	47	0.10
	DD	321	0	7.2	7.1	0.1	27	0.00
	DNH	855	0	20.1	20.0	0.1	48	0.00
	AMNSIL	845	0	18.7	1.2	0.2	276	0.00
SR	Andhra Pradesh	10915	0	209.7	89.4	0.1	324	0.00
	Telangana	12921	0	264.1	135.8	0.2	562	0.00
	Karnataka	12940	0	249.2	119.6	-1.0	769	0.00
	Kerala	3716	0	76.7	58.1	0.1	195	0.00
	Tamil Nadu	14363	0	322.9	204.6	-0.1	807	0.00
	Puducherry	356	0	7.8	8.0	-0.2	25	0.00
ER	Bihar	4965	0	98.5	85.7	2.8	339	0.00
	DVC	3278	0	69.4	-52.0	-0.4	419	0.00
	Jharkhand	1479	0	27.0	20.0	-1.4	163	0.00
	Odisha	5170	0	103.6	30.1	1.3	636	0.00
	West Bengal	8132	0	170.6	38.0	0.6	360	0.00
	Sikkim	76	0	1.0	1.4	-0.4	14	0.00
NER	Arunachal Pradesh	120	3	2.2	2.2	0.0	41	0.01
	Assam	1533	80	27.0	22.2	0.2	119	0.60
	Manipur	189	3	2.7	2.7	0.0	22	0.01
	Meghalaya	290	95	4.7	4.1	-0.2	90	1.35
	Mizoram	95	4	1.6	1.4	-0.1	11	0.01
	Nagaland	134	4	2.2	2.1	0.0	25	0.01
	Tripura	330	5	4.2	3.4	0.4	65	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-15.6	-21.2
Day Peak (MW)	367.0	-735.6	-915.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	171.6	-295.0	225.0	-107.5	5.9	0.0
Actual(MU)	162.1	-302.3	226.2	-94.7	5.2	-3.5
O/D/U/D(MU)	-9.5	-7.3	1.2	12.7	-0.7	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	11448	6842	1548	772	25741	40
State Sector	11917	15070	7827	4217	11	39042	60
Total	17048	26518	14669	5765	783	64782	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	607	1369	590	567	15	3148	79
Lignite	21	11	39	0	0	71	2
Hydro	100	29	63	34	7	234	6
Nuclear	27	15	37	0	0	78	2
Gas, Naptha & Diesel	29	31	16	0	24	100	3
RES (Wind, Solar, Biomass & Others)	90	92	167	5	0	355	9
Total	874	1547	913	606	45	3986	100

Share of RES in total generation (%)	10.30	5.96	18.32	0.83	0.35	8.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.81	8.82	29.25	6.43	15.53	16.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.094

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: 22-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	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	484	0.0	5.4	-5.4
4	765 kV	SASARAM-FATEHPUR	1	25	188	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	449	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	0	231	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	56	720	0.0	6.6	-6.6
9	400 kV	PATNA-BALIA	4	0	994	0.0	19.0	-19.0
10	400 kV	BIHARSHARIFF-BALIA	2	50	316	0.0	2.3	-2.3
11	400 kV	MOTIHARI-GORAKHPUR	2	43	201	6.3	0.0	6.3
12	400 kV	BIHARSHARIFF-VARANASI	2	25	198	0.0	1.7	-1.7
13	220 kV	PUSAULI-SAHUPURI	1	44	95	0.0	0.9	-0.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	6.6	56.2	-49.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1129	0	19.0	0.0	19.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	629	621	1.5	0.0	1.5
3	765 kV	JHARSUGUDA-DURG	2	26	438	0.0	5.4	-5.4
4	400 kV	JHARSUGUDA-RAIGARH	4	34	255	0.0	2.3	-2.3
5	400 kV	RANCHI-SIPAT	2	136	197	0.0	0.4	-0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	107	0	1.7	0.0	1.7
					ER-WR	22.2	10.9	11.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	1164	354	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2469	0.0	47.5	-47.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2937	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	1204	659	0.0	2.6	-2.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	113.8	-113.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	298	96	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	518	137	3.8	0.0	3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	78	26	0.6	0.0	0.6
					ER-NER	6.4	0.0	6.4
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	1502	0.0	64.2	-64.2
2	HVDC	VINDHYACHAL B/B	-	275	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1364	0.0	30.9	-30.9
4	765 kV	GWALIOR-AGRA	2	0	2316	0.0	34.5	-34.5
5	765 kV	PHAGI-GWALIOR	2	0	1109	0.0	17.2	-17.2
6	765 kV	JABALPUR-ORAI	2	0	800	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	582	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	1381	0.0	26.4	-26.4
9	765 kV	CHITORGARH-BANASKANTHA	2	1140	177	12.9	0.0	12.9
10	400 kV	ZERDA-KANKROLI	1	386	0	5.3	0.0	5.3
11	400 kV	ZERDA -BHINMAL	1	632	0	7.3	0.0	7.3
12	400 kV	VINDHYACHAL -RIHAND	1	994	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	257	316	0.9	1.5	-0.7
14	220 kV	BHANPURA-RANPUR	1	43	54	0.3	0.1	0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3
16	220 kV	MEHGAON-AURAIYA	1	146	0	0.0	0.5	-0.5
17	220 kV	MALANPUR-AURAIYA	1	81	15	2.1	0.0	2.1
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	68.3	195.9	-127.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	24.3	-24.3
2	HVDC	RAIGARH-PUGALUR	2	0	1558	0.0	61.6	-61.6
3	765 kV	SOLAPUR-RAICHUR	2	0	2269	0.0	36.4	-36.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3071	0.0	53.3	-53.3
5	400 kV	KOLHAPUR-KUDGI	2	849	0	10.5	0.0	10.5
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	82	1.7	0.0	1.7
					WR-SR	12.2	175.5	-163.4

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)	184	130	132	3.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	122	47	65	1.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.8
	NER	132KV-GEYLEGPHU - SALAKATI	38	12	23	0.6
	NER	132kV Motanga-Rangia	24	1	-11	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-77	0	-76	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-332	-235	-323	-7.8
	ER	132KV-BIHAR - NEPAL	-327	-194	-252	-6.0
	ER	BHERAMARA HVDC(BANGLADESH)	-737	-731	-733	-17.6
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	89	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	89	0	-75	-1.8