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: 14th 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 13.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:** **14-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)	46550	54080	46582	20022	2174	169408
Peak Shortage (MW)	615	0	0	0	374	989
Energy Met (MU)	980	1252	1150	401	44	3827
Hydro Gen (MU)	108	42	78	34	10	271
Wind Gen (MU)	17	39	35	-	-	91
Solar Gen (MU)*	42.63	38.57	112.74	4.76	0.02	199
Energy Shortage (MU)	11.28	0.00	0.00	0.00	1.95	13.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48425	55682	53724	20022	2449	172840
Time Of Maximum Demand Met (From NLDC SCADA)	19:27	11:14	15:00	19:00	18:06	09:38

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	0.052	0.05	2.08	6.86	8.99	70.88	20.12

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	6106	100	124.9	57.8	-0.1	113	0.50
	Haryana	5994	0	127.1	73.8	2.0	234	0.00
	Rajasthan	12143	0	238.1	67.9	-0.4	426	0.24
	Delhi	3287	0	63.9	48.8	-1.4	103	0.00
	UP	16998	0	301.7	106.7	-0.1	448	0.33
	Uttarakhand	1935	0	38.2	22.0	1.0	192	0.00
	HP	1672	1	31.0	25.4	0.8	260	0.21
	J&K(UT) & Ladakh(UT)	2434	500	51.4	44.0	0.3	299	10.00
	Chandigarh	173	0	3.2	3.0	0.1	23	0.00
WR	Chhattisgarh	4315	0	90.6	40.7	-1.3	324	0.00
	Gujarat	17989	0	385.6	162.1	0.6	550	0.00
	MP	9829	0	194.6	101.0	-2.0	761	0.00
	Maharashtra	24065	0	523.2	160.3	-2.3	555	0.00
	Goa	544	0	12.0	11.7	-0.2	33	0.00
	DD	345	0	7.7	7.5	0.2	33	0.00
	DNH	870	0	20.3	20.3	0.0	59	0.00
	AMNSIL	786	0	17.7	1.2	0.1	239	0.00
SR	Andhra Pradesh	10541	0	198.7	84.9	0.7	521	0.00
	Telangana	13136	0	266.2	147.6	-1.7	523	0.00
	Karnataka	13315	0	260.4	114.5	-0.2	623	0.00
	Kerala	3926	0	80.9	57.0	0.1	229	0.00
	Tamil Nadu	15615	0	335.8	209.4	-1.6	705	0.00
	Puducherry	395	0	8.2	8.5	-0.3	20	0.00
ER	Bihar	4380	0	84.0	75.4	-2.4	467	0.00
	DVC	3132	0	65.9	-53.8	-0.7	157	0.00
	Jharkhand	1360	0	22.5	17.9	-2.8	121	0.00
	Odisha	4337	0	84.9	13.6	-1.9	663	0.00
	West Bengal	7218	0	142.8	20.1	-3.8	408	0.00
	Sikkim	83	0	1.2	1.6	-0.4	51	0.00
NER	Arunachal Pradesh	128	4	2.2	1.9	0.2	35	0.01
	Assam	1401	26	24.7	20.6	-0.3	143	1.50
	Manipur	201	3	2.8	2.7	0.1	26	0.01
	Meghalaya	344	0	6.2	5.6	0.0	270	0.00
	Mizoram	110	3	1.7	1.5	0.0	24	0.01
	Nagaland	138	5	2.1	2.0	0.0	25	0.01
	Tripura	213	2	4.0	3.8	-0.4	103	0.41

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-12.5	-20.4
Day Peak (MW)	383.0	-684.0	-882.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.0	-259.1	219.6	-131.2	-3.3	0.0
Actual(MU)	175.5	-275.1	235.1	-139.7	-0.1	-4.2
O/D/U/D(MU)	1.5	-16.0	15.5	-8.5	3.2	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5990	15488	5872	1898	439	29687	44
State Sector	12517	14045	8537	2947	11	38057	56
Total	18507	29533	14409	4845	450	67743	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	546	1348	568	547	11	3019	77
Lignite	25	10	42	0	0	78	2
Hydro	108	42	78	34	10	271	7
Nuclear	27	22	45	0	0	93	2
Gas, Naptha & Diesel	30	46	12	0	30	117	3
RES (Wind, Solar, Biomass & Others)	86	79	185	5	0	354	9
Total	821	1547	930	585	50	3933	100

Share of RES in total generation (%)	10.42	5.09	19.91	0.81	0.04	9.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.79	9.23	33.13	6.56	19.24	18.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.096

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: 14-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	857	0.0	12.6	-12.6
4	765 kV	SASARAM-FATEHPUR	1	0	452	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	482	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	99	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	837	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	4	0	1181	0.0	20.4	-20.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	423	0.0	6.8	-6.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	36	292	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	24	105	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	0.3	85.8	-85.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1499	0	18.3	0.0	18.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	328	907	0.0	4.9	-4.9
3	765 kV	JHARSUGUDA-DURG	2	0	354	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	222	453	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	93	296	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	17	163	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	154	31	0.8	0.0	0.8
					ER-WR	19.1	15.9	3.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	699	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	45.9	-45.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3225	0.0	62.8	-62.8
4	400 kV	TALCHER-I/C	2	1150	669	0.0	0.7	-0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	118.8	-118.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	372	39	3.3	0.0	3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	631	24	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	114	0	1.1	0.0	1.1
					ER-NER	9.6	0.0	9.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	467	2	10.6	0.0	10.6
					NER-NR	10.6	0.0	10.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	499	0.0	23.6	-23.6
2	HVDC	VINDHYACHAL B/B	-	241	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	1963	0.0	35.5	-35.5
5	765 kV	PHAGI-GWALIOR	2	0	1660	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	860	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	1	714	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	1366	0.0	28.2	-28.2
9	765 kV	CHITORGARH-BANASKANTHA	2	965	0	13.9	0.0	13.9
10	400 kV	ZERDA-KANKROLI	1	273	0	4.7	0.0	4.7
11	400 kV	ZERDA -BHINMAL	1	440	0	6.0	0.0	6.0
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	398	0.0	5.5	-5.5
14	220 kV	BHANPURA-RANPUR	1	14	80	0.0	0.6	-0.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	93	5	0.6	0.9	-0.3
17	220 kV	MALANPUR-AURAIYA	1	61	31	0.4	0.0	0.4
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	0.3	-0.3
					WR-NR	67.5	175.8	-108.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	1515	0.0	61.9	-61.9
3	765 kV	SOLAPUR-RAICHUR	2	0	2443	0.0	34.7	-34.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3495	0.0	61.7	-61.7
5	400 kV	KOLHAPUR-KUDGI	2	926	0	15.3	0.0	15.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	1.8	0.0	1.8
8	220 kV	XELDEM-AMBEWADI	1	0	84	1.8	0.0	1.8
					WR-SR	18.9	182.2	-163.3

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)	182	100	118	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	120	0	83	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	36	20	36	-0.9
	NER	132KV-GEYLEGPHU - SALAKATI	33	5	21	0.5
	NER	132kV Motanga-Rangia	12	1	2	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-348	-240	-316	-7.6
	ER	132KV-BIHAR - NEPAL	-257	-51	-130	-3.1
	ER	BHERAMARA HVDC(BANGLADESH)	-742	-708	-728	-17.5
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	61	0	-60	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	79	0	-60	-1.5