

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

### POWER SYSTEM OPËRATION 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, क़तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 25<sup>th</sup> Feb 2021

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Ref: POSOCO/NLDC/SO/Daily PSP Report

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 24.02.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-फरवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 24<sup>th</sup> February 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: 25-Feb-2021

A. Power Suppl	y Position at All India and Regional level						
		NR	WR	SR	ER	NER	TOTAL
Demand Met dur	ring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	47141	53652	44359	19688	2493	167333
Peak Shortage (N	MW)	2280	0	0	284	30	2594
Energy Met (MU	D)	1006	1278	1057	407	42	3791
Hydro Gen (MU)	)	111	45	89	37	8	289
Wind Gen (MU)		17	37	27	-	-	81
Solar Gen (MU)*	•	43.90	38.72	114.00	4.51	0.14	201
<b>Energy Shortage</b>	(MU)	16.24	0.00	0.00	0.85	0.97	18.06
Maximum Dema	nd Met During the Day (MW) (From NLDC SCADA)	50681	59308	50658	20729	2584	179432
Time Of Maximu	ım Demand Met (From NLDC SCADA)	09:13	09:37	09:19	18:29	18:06	09:37
B. Frequency P	rofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.045	0.00	0.38	12,42	12.80	77.68	9.52

C. Power Supply Position in States Max.Demand Shortage during | Energy Met Drawal OD(+)/UD(-) Max OD Energy Region States Met during the Schedule maximum Shortage (MU) (MU) (MW) dav(MW) Demand(MW) (MU) (MU) 126.0 193 Punjab 2.16 Haryana 6700 137.0 94.7 1.7 197 0.62 81.0 62.8 293.9 38.4 Delhi 3625 0 58.9 -1.2 178 0.00 UP Uttarakhand 16239 2063 83.1 20.4 1.4 495 153 1.95 0.00 NR 31.8 51.4 26.0 44.6 1810 0.6 0.00 J&K(UT) & Ladakh(UT) 2447 262 10.00 0.7 Chandigarh Chhattisgarh 3.2 97.5 206 0.0 0.00 309 4439 46.0 145.9 0.4 0.00 Gujarat 16711 364.3 661 0.00 13182 155.3 WR Maharashtra 23639 498.9 146.2 -1.4 400 0.00 10.9 10.1 DD344 7.4 0.3 0.00 DNH AMNSIL 20.1 19.9 837 1.1 18.6 1.6 421 0.00 Andhra Pradesh Telangana 9986 13030 63.5 131.9 423 560 749 191.8 0.00 252.0 215.9 -0.5 0.00 SR Karnataka 11438 0.00 3899 388 80.2 -0.1 0.00 Kerala 181.6 7.6 Tamil Nadu 14653 310.2 -0.3 448 0.00 Puducherry Bihar 4709 83.3 77.7 1.7 402 0.00 Jharkhand 24.2 91.7 19.0 134 1455 0.85 ER Odisha 4856 0.00 West Bengal 7106 136.9 8.9 341 -0.6 0.00 Sikkim Arunachal Pradesh 1.3 2.2 1.8 85 122 21 31 0.00 -0.3 0.01 Assam 1470 23.8 19.6 0.01 Manipur 216 -0.2 NER Meghalaya Mizoram 6.1 1.6 4.4 -0.2 0.00 Nagaland 166 2.0 -0.2 0.01

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)
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	Bhutan	Nepal	Bangladesh
Actual (MU)	5.5	-14.6	-21.3
Day Peak (MW)	400.0	-778.0	-988.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.4	-203.3	148.4	-166.4	1.9	0.0
Actual(MU)	219.1	-202.9	139.9	-166.0	0.8	-9.2
O/D/U/D(MU)	-0.3	0.3	-8.5	0.4	-1.1	-9.2

#### F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8490	19078	7332	1711	794	37405	47
State Sector	12494	14557	10062	4902	11	42026	53
Total	20984	33634	17394	6613	805	79430	100

#### G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	547	1301	555	572	9	2983	77
Lignite	21	9	40	0	0	71	2
Hydro	111	45	89	37	8	289	7
Nuclear	23	21	47	0	0	91	2
Gas, Naptha & Diesel	18	48	12	0	29	106	3
RES (Wind, Solar, Biomass & Others)	88	76	181	5	0	350	9
Total	808	1500	923	614	46	3890	100
Share of RES in total generation (%)	10.90	5.09	19.61	0.74	0.31	9.00	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.45	9.50	34.29	6.75	17.66	18.77	

#### H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.066

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.

#### INTER-REGIONAL EXCHANGES

			INTER-I	REGIONAL EXCH	IANGES		Import=(+ve) /Export =	
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Date of Reporting: Export (MU)	25-Feb-2021 NET (MU)
No	t/Export of ER (		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MC)	Export (MU)	NEI (MU)
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
3	HVDC 765 kV	PUSAULI B/B GAVA-VARANASI	- 2	0	251 810	0.0	6.0 12.8	-6.0 -12.8
4	765 kV	GAYA-VARANASI SASARAM-FATEHPUR	í	Ö	380	0.0	5.4	-5.4
5 6	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0	536 229	0.0	9.2 4.9	-9.2 -4.9
7	400 kV	PUSAULI -ALLAHABAD	i	0	70	0.0	1.1	-1.1
9	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	832	0.0	10.2	-10.2
10	400 kV	PATNA-BALIA BIHARSHARIFF-BALIA	2	0	1179 549	0.0 0.0	24.2 9.7	-24.2 -9.7
11	400 kV 400 kV	MOTIHARI-GORAKHPUR	2	0	336	0.0	5.5	-5.5
12 13		BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	1	8	332 131	0.0	4.2 1.4	-4.2 -1.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 16	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1 1	20	0	0.7 0.0	0.0	0.7
17		KARMANASA-CHANDAULI	i	0	Ö	0.0	0.0	0.0
mnoi	t/Export of ER (	With WR)			ER-NR	0.7	94.4	-93.7
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	248	297	0.0	1.2	-1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	619	633	0.0	1.9	-1.9
3	765 kV	JHARSUGUDA-DURG	2	0	640	0.0	11.2	-11.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	462	0.0	6.4	-6.4
5	400 kV	RANCHI-SIPAT	2	123	224	0.0	2.0	-2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0 47	185 104	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2		ER-WR	0.0	0.4 26.3	-0.4 -26.3
	t/Export of ER (							
2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	490 1991	0.0	11.2 37.4	-11.2 -37.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2750	0.0	53.7	-53.7
4 5	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2	775	299 0	5.2 0.0	0.0	5.2 0.0
				<u> </u>	ER-SR	0.0	102.3	-102.3
	t/Export of ER (		2	103	50			
2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2	193 346	50 26	2.3 4.2	0.0	2.3 4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	58	11	0.6	0.0	0.6
nnoi	t/Export of NER	(With NR)			ER-NER	7.0	0.0	7.0
1		BISWANATH CHARIALI-AGRA	2	467	0	10.4	0.0	10.4
nnoi	t/Export of WR	With ND)			NER-NR	10.4	0.0	10.4
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	41.6	-41.6
2	HVDC	VINDHYACHAL B/B	-	241	0	6.1	0.0	6.1
3 4	765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1917 2217	0.0	35.1 30.2	-35.1 -30.2
5	765 kV	PHAGI-GWALIOR	2	0	1110	0.0	16.8	-16.8
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	2	577	963 0	0.0 10.7	28.9	-28.9 10.7
8	765 kV	SATNA-ORAI	1	0	1204	0.0	23.1	-23.1
9	765 kV	CHITORGARH-BANASKANTHA	2	330	599	0.6	0.0	0.6
10 11	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	193 268	64 207	2.1 1.0	0.0	2.1 1.0
12	400 kV	VINDHYACHAL -RIHAND	1	491	0	11.0	0.0	11.0
13 14		RAPP-SHUJALPUR BHANPURA-RANPUR	2	127	379 155	0.4 0.0	2.6	-2.2 0.0
15	220 kV	BHANPURA-MORAK	î	Ö	30	0.0	0.0	0.0
16 17	220 kV 220 kV	MEHGAON-AURAIYA	1	134	0	2.2	2.0	0.2
18	132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	86	0	1.8 0.0	0.0	1.8 0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0 WD ND	0.0	1.0	-1.0
npoi	t/Export of WR (	With SR)			WR-NR	35.7	181.3	-145.6
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	7.3	-7.3
3	765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 584	1516 1954	0.0	30.9 18.1	-30.9 -18.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2952	0.0	48.6	-48.6
5	400 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1377	0	19.1 0.0	0.0	19.1 0.0
7		PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8		XELDEM-AMBEWADI	1	0	101	2.2	0.0	2.2
			TAITPEN	NATIONAL EXCHA	WR-SR	21.3	104.9	-83.6
	Etata	n :				10 C C C C C C C C C C C C C C C C C C C	1	Energy Exchar
	State	Region		Name HU-ALIPURDUAR 1&2	Max (MW)	Min (MW)	Avg (MW)	(MU)
		ER	i.e. ALIPURDUAR RI MANGDECHU HEP	ECEIPT (from 4*180MW)	100	0	95	2.3
		ER	400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR	URI 1,2,4 (& 400kV JRI) i.e. BINAGURI	241	0	138	3.3
	BHUTAN	ER	220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	RA) i.e. BIRPARA	19	0	-4	-0.1
					32	10	19	0.5
		NER	132KV-GEYLEGPHU	J-SALAKAII				
		NER NER	132KV-GEYLEGPHU 132kV Motanga-Rang		9	1	8	0.2
				ijia NH) -	9 -80	0	-75	-1.8
		NER	132kV Motanga-Rang 132KV-TANAKPUR(	nia NH) - R(PG)	-			
	NEPAL	NER NR	132kV Motanga-Rang 132kV-TANAKPUR( MAHENDRANAGAI 400KV-MUZAFFARI	nh) - R(PG) PUR - DHALKEBAR	-80	0	-75	-1.8
	NEPAL	NER NR ER	132kV Motanga-Rang 132kV-TANAKPUR( MAHENDRANAGAI 400KV-MUZAFFARI DC	ria NH) - R(PG) PUR - DHALKEBAR	-80	-228	-75 -323	-1.8 -7.7
BA	NEPAL ANGLADESH	NER NR ER	132kV Motanga-Rang 132kV-TANAKPUR MAHENDRANAGAI 400KV-MUZAFFARI DC 132KV-BIHAR - NEP	jia  NH) - (RPG)  PUR - DHALKEBAR  AL  C(BANGLADESH)  NAGAR -	-80 -377 -321	-228 -107	-75 -323 -211	-1.8 -7.7 -5.1
BA		NER NR ER ER	132KV Motanga-Rang 132KV-TANAKPUR( MAHEADRANAGAI 400KV-MUZAFFARI DC 132KV-BIHAR - NEP BHERAMARA HVD 132KV-SURAJMANI	dia NH) - (IPG) PUR - DHALKEBAR  AL  C(BANGLADESH)  NAGAR - DESH)-1  NAGAR -	-80 -377 -321 -864	-228 -107 -552	-75 -323 -211 -788	-1.8 -7.7 -5.1