

## 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, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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दिनांक: 24<sup>th</sup> July 2021

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 23.07.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जुलाई-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 23<sup>rd</sup> July 2021, is available at the NLDC website.

धन्यवाद,

## पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Date of Reporting: Report for previous day A. Power Supply Position at All India and Regional level 24-Jul-2021 NR 61409 WR 47974 TOTAL SR ER NER Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs) 36764 Peak Shortage (MW) 720 720 Energy Met (MU) Hydro Gen (MU) 1385 1121 827 498 56 3888 368 32 135 136 111 31 678 10 47.26 3.85 369 143 3.85 Wind Gen (MU) Solar Gen (MU)\* 224 69.32 0.27 4.40 21.40 Souar Gen (MU)<sup>2</sup>

Energy Shortage (MU)

Maximum Demand Met During the Day (MW) (From NLDC SCADA)

Time Of Maximum Demand Met (From NLDC SCADA) 0.00 0.00 0.00 23316 0.00 64551 172813 49529 38658 2999 22:20 00:24 B. Frequency Profile (%) FVI < 49.7 49.7 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 Region

	All India	0.046	0.03	1.11	10.66	11.80	76.72	11.48	
	C. Power Supp	ly Position in States							
			Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
	Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
			day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
		Punjab	11444	0	260.0	176.0	-1.1	68	0.00
		Haryana	8904	0	188.7	164.3	1.3	269	0.00
		Rajasthan	11862	0	257.9	114.8	-0.2	449	0.00
		Delhi	5536	0	113.5	99.8	0.2	221	0.00
	NR	UP	22520	0	437.7	188.8	-0.7	485	0.40
		Uttarakhand	1993	0	43.2	15.6	1.6	189	0.00
		HP	1469	0	29.5	-6.6	-4.0	0	0.00
		J&K(UT) & Ladakh(UT)	2398	250	48.3	22.7	0.3	216	3.45
		Chandigarh	308	0	6.1	6.2	-0.1	24	0.00
		Chhattisgarh	3948	0	93.5	46.5	-0.4	236	0.00
		Gujarat	16485	0	364.9	179.9	2.7	734	0.00
		MP	9246	0	209.6	127.5	0.0	661	0.00
	WR	Maharashtra	19120	0	396.8	121.0	-3.3	612	0.00
		Goa	524	0	11.3	10.5	0.2	45	0.00
		DD	331	0	7.4	7.1	0.3	43	0.00

	Chhattisgarh	3948	0	93.5	46.5	-0.4	236	0.00
	Gujarat	16485	0	364.9	179.9	2.7	734	0.00
	MP	9246	0	209.6	127.5	0.0	661	0.00
WR	Maharashtra	19120	0	396.8	121.0	-3.3	612	0.00
	Goa	524	0	11.3	10.5	0.2	45	0.00
	DD	331	0	7.4	7.1	0.3	43	0.00
	DNH	826	0	19.3	19.3	0.0	99	0.00
	AMNSIL	843	0	17.8	5.0	-0.2	299	0.00
	Andhra Pradesh	7171	0	149.1	31.9	-0.3	1015	0.00
	Telangana	7387	0	144.2	30.1	-2.4	487	0.00
SR	Karnataka	7466	0	144.8	-5.0	-0.7	770	0.00
	Kerala	3283	0	67.8	28.2	-1.6	188	0.00
	Tamil Nadu	14257	0	313.0	110.2	-1.0	820	0.00
	Puducherry	396	0	8.6	8.7	-0.1	33	0.00
	Bihar	6407	0	126.5	121.7	-1.1	599	0.00
	DVC	3066	0	63.5	-38.5	0.2	744	0.00
	Jharkhand	1588	0	30.3	25.0	-1.0	324	0.00
ER	Odisha	5762	0	107.3	34.9	-0.7	444	0.00
	West Bengal	8349	0	169.5	51.6	-0.8	446	0.00
	Sikkim	80	0	1.3	1.5	-0.2	24	0.00
	Arunachal Pradesh	134	0	2.2	2.3	0.0	70	0.00
	Assam	1975	0	37.4	30.1	0.3	134	0.00
	Manipur	185	1	2.6	2.5	0.1	58	0.00
NER	Meghalaya	294	0	5.4	2.4	-0.1	22	0.00
	Mizoram	99	0	1.6	1.5	0.0	8	0.00
	Nagaland	140	1	2.6	2.4	-0.1	18	0.00
	Tripura	271	0	4.6	4.1	-0.5	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	22.8	-4.3	-21.3
Day Peak (MW)	1131.0	-348.0	-914.0

 $\underline{\textbf{E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)}\\$ 

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	382.1	-205.9	-72.8	-96.9	-6.5	0.0
Actual(MU)	379.7	-200.8	-80.4	-98.5	-8.5	-8.4
O/D/U/D(MU)	-2.4	5.2	-7.6	-1.6	-2.0	-8.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7472	16808	10582	660	259	35780	43
State Sector	10290	22454	10458	4895	11	48108	57
Total	17762	39262	21040	5555	270	83888	100
	17702	07202	21010	CCCC	2.0	02000	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	514	1069	367	506	11	2466	62
Lignite	23	13	43	0	0	79	2
Hydro	368	32	136	111	31	678	17
Nuclear	31	32	42	0	0	105	3
Gas, Naptha & Diesel	23	34	10	0	28	95	2
RES (Wind, Solar, Biomass & Others)	79	157	321	4	0	562	14
Total	1037	1337	920	621	70	3985	100
Share of RES in total generation (%)	7.62	11.73	34.96	0.71	0.39	14.11	]
Share of Non-feed fuel (Hydro Nuclear and PES) in total generation (%)	46.04	16.55	54.22	10.50	44.02	22.75	ì

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.077

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

Import=(+ve) /Export =(-ve) for NET (MU)

							Import=(+ve) /Export Date of Reporting:	
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	May Evport (MW)	Import (MU)	Export (MU)	NET (MU)
Impo	rt/Export of ER (		No. of Circuit	Max Import (MIVI)	Max Export (MW)	Import (MC)	<b>-</b>	HEI (MC)
1	HVDC	ALIPURDUAR-AGRA	2	0	701	0.0	17.1	-17.1
2	HVDC	PUSAULI B/B	-	Ü	247	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	918	0.0	14.1 0.0	-14.1
5	765 kV 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1	169	108 817	0.7	13.6	0.7 -13.6
6	400 kV	PUSAULI-VARANASI	ī	0	234	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.3	-1.3
8	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	697 1390	0.0	11.7 22.8	-11.7
10	400 kV	PATNA-BALIA BIHARSHARIFF-BALIA	2.	0	446	0.0	6.5	-22.8 -6.5
11	400 kV	MOTIHARI-GORAKHPUR	2	Ů	424	0.0	7.3	-7.3
12	400 kV	BIHARSHARIFF-VARANASI	2	0	252	0.0	3.3	-3.3
13 14	220 kV 132 kV	PUSAULI-SAHUPURI SONE NAGAR-RIHAND	1	0	154 0	0.0	2.8 0.0	-2.8 0.0
15	132 kV	GARWAH-RIHAND	†	20	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	î	0	Ö	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
Imno	rt/Export of ER (	Wish WD)			ER-NR	1.2	110.8	-109.6
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	14	1080	0.0	9.7	-9.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2014	0	32.6	0.0	32.6
3	765 kV	JHARSUGUDA-DURG	2	205	54	2.5	0.0	2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	161	200	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	483	0	8.6	0.0	8.6
6	220 kV	BUDHIPADAR-RAIGARH	1	1	114	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	115	10	1.5	0.0	1.5
				-20	ER-WR	45.2	12.4	32.8
Impo	rt/Export of ER (							
1	HVDC	JEYPORE-GAZUWAKA B/B	2	298	0	7.4	0.0	7.4
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1091 2161	0.0	25.8 28.4	-25.8 -28.4
4	400 kV	TALCHER-I/C	2	437	348	1.8	0.0	1.8
5		BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
F	- ATT - ATT -	Ned Men			ER-SR	7.4	54.1	-46.8
Impo 1	rt/Export of ER (\) 400 kV	With NER) BINAGURI-BONGAIGAON	2	14	312	0.0	2.5	-2.5
2	400 kV 400 kV	ALIPURDUAR-BONGAIGAON	2	31	480	0.0	2.7	-2.5 -2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	118	0.0	1.4	-1.4
					ER-NER	0.0	6.6	-6.6
Impo 1	rt/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA	2	0	0.42	0.0	16.8	1/ 9
1	HVDC	BISWANATH CHARIALI-AGRA	1 4		843 NER-NR	0.0	16.8	-16.8 -16.8
Impo	rt/Export of WR (	(With NR)				0.0		-10.0
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5036	0.0	72.6	-72.6
2	HVDC	VINDHYACHAL B/B	2	0	203	0.0	4.8	-4.8
4	HVDC 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2	0	1450 3385	0.0	26.9 59.5	-26.9 -59.5
5	765 kV	GWALIOR-PHAGI	2	Ŏ	1956	39.5	0.0	39.5
6	765 kV	JABALPUR-ORAI	2	0	1433	0.0	52.6	-52.6
8	765 kV	GWALIOR-ORAI	1	745	1510	14.1	0.0 30.7	14.1
9	765 kV 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	2	703	1519 801	0.0 1.2	0.0	-30.7 1.2
10	400 kV	ZERDA-KANKROLI	1	180	109	1.4	0.0	1.4
11	400 kV	ZERDA -BHINMAL	1	203	182	1.2	0.0	1.2
12	400 kV	VINDHYACHAL -RIHAND	1 2	955	720	22.1	0.0	22.1
13 14	400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	1	0	739 133	12.1 0.0	0.0 2.4	12.1 -2.4
15	220 kV	BHANPURA-MORAK	1	Ů	30	0.0	2.0	-2.0
16	220 kV	MEHGAON-AURAIYA	1	80	26	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	46	56	0.3	0.1	0.2
18	132 kV 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
17	15   152 KY     ICHO GIETT ESTETT CH		ı	1 0	WR-NR	91.9	251.8	-159.9
	rt/Export of WR (							
1	HVDC	BHADRAWATI B/B	-	794	0	14.5	0.0	14.5
3	765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	2155 1971	0 648	37.1 23.9	0.0	37.1 23.9
4	765 kV	WARDHA-NIZAMABAD	2	700	1247	0.0	2.7	-2.7
5	400 kV	KOLHAPUR-KUDGI	2	1361	0	24.5	0.0	24.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV 220 kV	PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 81	0.0 0.4	0.0	0.0 0.4
Ľ		TO THE TOTAL PROPERTY OF THE PARTY OF THE PA	<u> </u>		WR-SR	100.4	2.7	97.7
	-	IN	TERNATIONAL EX	CHANGES				+ve)/Export(-ve)
	State			Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
<b>—</b>	State	Region	400kV MANGDECHI		Max (MW)	IVIII (IVI VV)	Avg (MIVV)	(MU)
1		ER	1,2&3 i.e. ALIPURDU		634	623	623	14.9
1		£R.	MANGDECHU HEP	4*180MW)	034	043	320	14.7
1			400kV TALA-BINAG	URI 1,2,4 (& 400kV			39	
1		ER	MALBASE - BINAGU RECEIPT (from TAL		147	0	39	0.9
1			220kV CHUKHA-BIR	RPARA 1&2 (& 220kV				
1	BHUTAN	ER	MALBASE - BIRPAR	RA) i.e. BIRPARA	258	210	217	5.2
1			RECEIPT (from CHU	KHA HEP 4°84MW)			1	
1		NER	132kV GELEPHU-SA	LAKATI	29	0	20	0.5
1		l						
			1326V MOTANCA PANCIA		64	37	53	1.3
		NER	132kV MOTANGA-RANGIA					
		NER	132kV MOTANGA-R	ANGIA	04	<u> </u>		
			132kV MOTANGA-R 132kV MAHENDRAN					
		NER NR			-70	0	-42	-1.0
			132kV MAHENDRAN TANAKPUR(NHPC)	NAGAR-			-42	-1.0
	NEPAL		132kV MAHENDRAN	NAGAR-				-1.0 -1.6
	NEPAL	NR	132kV MAHENDRAN TANAKPUR(NHPC)	NAGAR-	-70	0	-42	
	NEPAL	NR	132kV MAHENDRAN TANAKPUR(NHPC) NEPAL IMPORT (FI	NAGAR-	-70	0	-42	
	NEPAL	NR ER	132kV MAHENDRAN TANAKPUR(NHPC) NEPAL IMPORT (FI	NAGAR- ROM BIHAR)	-70 -165	-1	-42 -68	-1.6
	NEPAL	NR ER ER	132kV MAHENDRAN TANAKPUR(NHPC) NEPAL IMPORT (FI 400kV DHALKEBAR	NAGAR- ROM BIHAR) -MUZAFFARPUR 1&2	-70 -165 -113	-1 -2	-42 -68 -70	-1.6 -1.7
	NEPAL	NR ER	132kV MAHENDRAN TANAKPUR(NHPC) NEPAL IMPORT (FI 400kV DHALKEBAR	NAGAR- ROM BIHAR)	-70 -165	-1	-42 -68	-1.6
		NR ER ER	132kV MAHENDRAN TANAKPUR(NHPC) NEPAL IMPORT (FI 400kV DHALKEBAR	NAGAR- ROM BIHAR) -MUZAFFARPUR 1&2 IVDC (BANGLADESH)	-70 -165 -113	-1 -2 0	-42 -68 -70 -784	-1.6 -1.7 -18.8
В	NEPAL ANGLADESH	NR ER ER	132kV MAHENDRA TANAKPUR(NHPC) NEPAL IMPORT (FI 400kV DHALKEBAR BHERAMARA B/B E	NAGAR- ROM BIHAR) -MUZAFFARPUR 1&2 IVDC (BANGLADESH)	-70 -165 -113	-1 -2	-42 -68 -70	-1.6 -1.7