

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

## POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20<sup>th</sup> Jul 2020

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 19.07.2020.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जुलाई-2020 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 19<sup>th</sup> July 2020, is available at the NLDC website.

धन्यवाद.

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



Report for previous day A. Power Supply Position at All India and Regional level Date of Reporting: 20-Jul-2020 NR 56496 WR ER 19433 TOTAL SR NER Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs) 33033 Peak Shortage (MW) 501 160 661 Energy Met (MU) Hydro Gen (MU) 1317 1015 792 447 46 3617 80 344 22 79 147 28 621 36 70.40 0.0 148 132 13.6 160144 Wind Gen (MU) Solar Gen (MU)\* 33 33.52 4.07 0.02 24.20 Sonar Gen (MU):

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

Time Of Maximum Demand Met (From NLDC SCADA) 0.0 42911 0.0 4.1 2556 63274 36432 22606 00:03 00:00 B. Frequency Profile (%) Region FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 OD Energy

All India	0.023	0.00	0.00	0.47	0.47	77.62	21.91
C. Power Suppl	y Position in States						
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OI
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)
		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)
	Punjab	11006	0	239.2	153.1	-1.3	140

		Max.Demand	Snortage during	Energy Met	Drawai	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	11006	0	239.2	153.1	-1.3	140	0.0
	Haryana	8900	0	186.7	134.6	0.7	248	0.0
	Rajasthan	11711	0	260.4	100.5	-2.3	417	0.0
	Delhi	5457	0	101.8	88.6	-0.6	183	0.1
NR	UP	21788	0	417.7	208.6	-1.7	295	0.0
	Uttarakhand	1719	0	38.8	17.6	0.0	102	0.0
	HP	1232	0	26.9	-1.9	-0.3	348	0.0
	J&K(UT) & Ladakh(UT)	2100	525	39.7	18.0	-1.4	284	9.4
	Chandigarh	302	0	5.7	5.7	0.0	28	0.0
	Chhattisgarh	4082	0	99.1	33.3	-0.2	218	0.0
	Gujarat	12525	0	281.3	75.3	2.9	675	0.0
	MP	9877	0	223.8	118.5	-2.7	310	0.0
WR	Maharashtra	16624	0	367.5	133.6	-0.7	581	0.0
	Goa	367	0	7.4	7.2	-0.3	46	0.0
	DD	211	0	4.8	4.7	0.1	18	0.0
	DNH	600	0	13.7	13.6	0.1	33	0.0
	AMNSIL	779	0	17.6	5.5	0.0	268	0.0
	Andhra Pradesh	6934	0	147.8	61.6	1.1	526	0.0
	Telangana	9967	0	193.2	90.3	0.0	576	0.0
SR	Karnataka	7234	0	140.3	54.7	0.9	802	0.0
	Kerala	2920	0	57.0	45.1	0.9	197	0.0
	Tamil Nadu	10540	0	246.3	118.6	-0.8	419	0.0
	Puducherry	333	0	7.0	7.1	-0.1	36	0.0
	Bihar	5730	0	99.9	99.8	-5.1	150	0.0
	DVC	2928	0	63.9	-36.3	1.0	500	0.0
	Jharkhand	1357	0	26.5	21.0	-2.8	100	0.0
ER	Odisha	4563	0	96.7	16.7	1.3	250	0.0
	West Bengal	8297	0	159.0	48.9	-1.6	355	0.0
	Sikkim	77	0	1.0	1.2	-0.2	20	0.0
	Arunachal Pradesh	103	0	1.9	1.7	0.2	28	0.0
	Assam	1574	121	28.4	24.7	0.0	106	4.0
	Manipur	178	2	2.5	2.5	0.1	42	0.0
NER	Meghalaya	294	0	5.2	-0.9	-0.3	42	0.0
	Mizoram	96	0	1.6	1.2	0.2	15	0.0
	Nagaland	126	1	2.4	2.4	-0.2	9	0.0
	Trinura	258	1	4.5	6.2	-0.3	40	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)							
	Bhutan	Nepal	Bangladesh				
Actual (MU)	54.7	-0.8	-26.2				
Day Peak (MW)	2345.0	-101.5	-1116.0				

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)								
	NR	WR	SR	ER	NER	TOTAL		
Schedule(MU)	306.2	-291.0	107.3	-115.8	-6.7	0.0		
Actual(MU)	287.4	-280.6	122.2	-126.1	-4.7	-1.9		
O/D/U/D(MU)	-18.8	10.4	14.9	-10.3	1.9	-1.9		

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3989	15947	10612	1350	677	32574
State Sector	8649	21046	15395	5492	47	50629
Total	12638	36993	26007	6842	723	83203

G. Sourcewise generation (NIC)						
	NR	WR	SR	ER	NER	All India
Coal	538	1074	365	454	6	2437
Lignite	19	15	22	0	0	55
Hydro	344	22	80	147	28	621
Nuclear	26	33	47	0	0	106
Gas, Naptha & Diesel	35	46	19	0	23	124
RES (Wind, Solar, Biomass & Others)	88	122	151	4	0	365
Total	1051	1312	684	604	58	3709
Share of RES in total generation (%)	8.35	9.34	22.06	0.68	0.03	9.85
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	43.62	13.53	40.64	24.95	48.74	29.46

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.048
Based on State Max Demands	1.079

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)
Date of Reporting: 20-Jul-2020

			1	,	1		Date of Reporting:	20-Jul-2020
SI No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	rt/Export of ER (		I	ı	I			
1	HVDC	ALIPURDUAR-AGRA	D/C	0	1201	0.0	28.7	-28.7
3		PUSAULI B/B GAYA-VARANASI	D/C	1 0	398 573	0.0	9.5 9.1	-9.5 -9.1
4		SASARAM-FATEHPUR	S/C	121	92	1.0	0.0	1.0
5	765 kV	GAYA-BALIA	S/C	0	470	0.0	7.5	-7.5
6		PUSAULI-VARANASI	S/C	0	285	0.0	6.0	-6.0
7 8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	S/C	6	173	0.0	3.2	-3.2
9	400 kV	PATNA-BALIA	D/C O/C	0	810 847	0.0	15.1 14.9	-15.1 -14.9
10	400 kV	BIHARSHARIFF-BALIA	D/C	Ö	378	0.0	6.6	-6.6
11	400 kV	MOTIHARI-GORAKHPUR	D/C	Ô	326	0.0	5.0	-5.0
12	400 kV	BIHARSHARIFF-VARANASI	D/C	16	246	0.0	2.7	-2.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	100	0.0	1.9	-1.9
14 15	132 kV 132 kV	SONE NAGAR-RIHAND GARWAH-RIHAND	S/C S/C	30	0	0.0 0.4	0.0	0.0 0.4
16		KARMANASA-SAHUPURI	S/C	0	Ů	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
T		N/A N/D)			ER-NR	1.4	110.1	-108.7
	rt/Export of ER (		0/6	1114	Δ .	10.4	1 00	10.4
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1114	0	18.4	0.0	18.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1134	0	13.9	0.0	13.9
3	765 kV	JHARSUGUDA-DURG	D/C	100	123	0.4	0.0	0.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	146	98	0.5	0.0	0.5
5	400 kV	RANCHI-SIPAT	D/C	399	0	5.0	0.0	5.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	134	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	D/C	155	0	2.3	0.0	2.3
T	nt/Emmont - 6 EP 0	Wist CD)			ER-WR	40.5	2.0	38.5
Impor	rt/Export of ER ( HVDC	With SR) JEYPORE-GAZUWAKA B/B	D/C	n	360	0.0	9.5	9 5
2	HVDC	TALCHER-KOLAR BIPOLE	D/C D/C	0	369 1584	0.0	8.5 39.6	-8.5 -39.6
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2563	0.0	45.6	-35.6 -45.6
4	400 kV	TALCHER-I/C	D/C	268	632	0.0	1.3	-1.3
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
Incom	rt/Evnort of ED	With NED)			ER-SR	0.0	93.7	-93.7
Impor	rt/Export of ER ( 400 kV	With NER) BINAGURI-BONGAIGAON	D/C	0	334	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C D/C	74	406	0.0	2.6	-3.5 -2.6
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	112	0.0	1.4	-1.4
					ER-NER	0.0	7.5	-7.5
	rt/Export of NER		D/G				42.5	42.5
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	705 NER-NR	0.0	13.5 13.5	-13.5 -13.5
Impo	rt/Export of WR	(With NR)			NEK-NK	0.0	13.5	-13.3
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	43.8	-43.8
2	HVDC	VINDHYACHAL B/B	-	451	201	8.1	0.7	7.5
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1169	0.0	22.7	-22.7
4	765 kV	GWALIOR-AGRA	D/C	0	2516	0.0	39.5	-39.5
6		PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C	0	1195 1006	0.0	20.0 33.0	-20.0 -33.0
7		GWALIOR-ORAI	S/C	438	0	8.3	0.0	8.3
8		SATNA-ORAI	S/C	0	1444	0.0	28.7	-28.7
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1339	0.0	19.1	-19.1
10	400 kV	ZERDA-KANKROLI	S/C	33	217	0.0	2.1	-2.1
11		ZERDA -BHINMAL	S/C	78	329	0.0	1.7	-1.7
12	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	S/C D/C	966 73	0 407	22.4 0.0	0.0 1.9	22.4 -1.9
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	S/C	0	100	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	S/C	95	0	0.5	0.1	0.4
17		MALANPUR-AURAIYA	S/C	55	26	1.2	0.0	1.2
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	D/C	0	WR-NR	0.0 40.5	0.0 216.1	0.0 -175.6
Impo	rt/Export of WR	(With SR)				70.0	210.1	-1 / 3.0
1	HVDC	BHADRAWATI B/B	-	0	309	0.0	10.4	-10.4
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	159	1984	0.1	24.8	-24.8
5	765 kV 400 kV	WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C	500	2538 0	6.2	38.7 0.0	-38.7 6.2
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	S/C	0	81 WD 60	1.3	0.0	1.3
					WR-SR	7.5	74.0	-66.5
$\vdash$			INTER	NATIONAL EXCHA	NGES			E E :
1	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
<b>—</b>					` ′	` ′		(MU)
1		ER	DAGACHU (2 * 63	)	0	0	0	0.0
1		ED	CHIRA ( 4 ± 64 ) P	IRPARA RECEIPT	251	227	215	5.0
1		ER			351	336	317	7.6
1	BHUTAN	ER	MANGDECHHU (4		783	778	777	18.6
1		ZIK .	ALIPURDUAR REC	CEIPT	.30			10.0
1		ER	TALA (6 * 170 ) BI	NAGURI RECEIPT	1066	1057	1077	25.9
1				CEL EDIT				
1		NER	132KV-SALAKATI	- GELEPHU	64	0	54	1.3
1		NER	132KV-RANGIA - I	DEOTHANG	61	0	54	1.3
-		NEK			01	v	54	1.0
1		NR	132KV-Tanakpur(N Mahendranagar(PG		-54	0	-25	-0.6
1								
1	NEPAL	ER	132KV-BIHAR - NI	EPAL	72	0	7	0.2
1			220KV-MUZAFFAI	RPUR -	2.	_	_	0.0
		ER	DHALKEBAR DC		-24	-2	-1	0.0
		ER	Bheramara HVDC(	Bangladesh)	-958	-946	-952	-22.8
1		ER			-730	-740	-734	-22.0
BA	ANGLADESH	NER	132KV-SURAJMAN		79	0	-71	-1.7
1			COMILLA(BANGI 132KV-SURAJMAN					
1		NER	COMILLA(BANGI		79	0	-71	-1.7