

### 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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24<sup>th</sup> May 2020

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ 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., २९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 23.05.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-मई-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 23<sup>th</sup> May 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:** 24-May-2020

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	49858	43471	39016	18368	2376	153089
Peak Shortage (MW)	414	0	0	0	136	550
Energy Met (MU)	1192	1095	959	369	41	3656
Hydro Gen (MU)	295	44	99	136	19	593
Wind Gen (MU)	19	108	101	•	-	229
Solar Gen (MU)*	36.93	29.50	84.73	4.48	0.02	156
Energy Shortage (MU)	9.7	0.0	0.0	0.0	1.9	11.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54945	48540	42252	18679	2399	160096
Time Of Maximum Demand Met (From NLDC SCADA)	23:14	15:28	14:58	22:40	19:10	22:41

B. Frequency Profile (%) FVI 49.7 - 49.8 49.9 - 50.05 Region < 49.7 49.8 - 49.9 < 49.9 > 50.05 All India 0.031 0.00 0.45 5.10 85.57 9.33 4.65

	Ty 1 obtains 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)
	Punjab	7816	0	171.0	136.3	-1.5	232	0.0
	Haryana	7460	0	158.0	129.2	1.6	280	0.0
	Rajasthan	11219	0	244.1	81.6	0.4	488	0.0
	Delhi	5003	0	95.2	78.7	-3.0	53	0.0
NR	UP	21082	0	417.5	186.5	0.9	725	0.0
	Uttarakhand	1607	0	36.1	17.8	0.2	104	0.0
	HP	1258	0	24.1	1.8	-2.1	80	0.0
	J&K(UT) & Ladakh(UT)	2050	513	41.2	20.9	-2.8	150	9.7
	Chandigarh	234	0	4.6	4.6	0.0	20	0.0
	Chhattisgarh	3612	0	79.4	28.5	-1.3	249	0.0
	Gujarat	14698	0	315.2	62.2	3.0	642	0.0
	MP	9727	0	216.6	111.0	-2.1	367	0.0
WR	Maharashtra	20343	0	443.5	154.4	-1.9	534	0.0
	Goa	494	0	10.6	10.3	-0.2	40	0.0
	DD	207	0	4.6	4.3	0.3	37	0.0
	DNH	363	0	8.1	8.1	0.0	42	0.0
	AMNSIL	752	0	16.5	3.2	0.1	258	0.0
	Andhra Pradesh	10029	0	195.9	99.2	2.6	691	0.0
	Telangana	7797	0	168.1	59.5	0.6	545	0.0
SR	Karnataka	10430	0	201.2	61.5	4.6	900	0.0
	Kerala	3524	0	74.0	48.1	0.3	183	0.0
	Tamil Nadu	13896	0	311.9	136.7	0.5	482	0.0
	Puducherry	379	0	8.1	7.9	0.2	72	0.0
	Bihar	5281	0	98.6	91.2	-0.9	225	0.0
	DVC	2521	0	54.7	-34.9	0.7	290	0.0
	Jharkhand	1465	0	27.3	20.7	-1.2	118	0.0
ER	Odisha	4176	0	84.5	2.3	0.1	300	0.0
	West Bengal	5620	0	102.9	37.5	1.0	490	0.0
	Sikkim	92	0	1.3	1.4	-0.1	10	0.0
	Arunachal Pradesh	80	1	1.5	1.6	-0.2	13	0.0
	Assam	1415	120	23.6	16.7	0.4	106	1.8
	Manipur	184	2	2.5	2.4	0.1	19	0.0
NER	Meghalaya	304	0	5.1	-0.1	0.0	45	0.1
	Mizoram	90	0	1.4	1.5	-0.2	16	0.0
	Nagaland	122	1	2.1	1.9	-0.1	13	0.0
	Tripura	282	11	4.7	5.3	0.1	54	0.0

D. Transnational E	Exchanges (MU	() - <b>Import</b> (+ve	e)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.9	-0.4	-21.1
Day Peak (MW)	2239.8	-132.7	-1125.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	300.6	-313.6	139.9	-122.1	-4.8	0.0
Actual(MU)	288.5	-324.0	160.4	-127.7	-5.3	-8.1
O/D/U/D(MU)	-12.1	-10.5	20.6	-5.6	-0.4	-8.0

## F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5935	16149	11192	2760	899	36934
State Sector	13305	19457	11938	5832	11	50543
Total	19240	35606	23130	8592	910	87477

## G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	454	1101	398	403	4	2360
Lignite	27	16	43	0	0	86
Hydro	295	44	99	136	19	593
Nuclear	27	36	28	0	0	91
Gas, Naptha & Diesel	36	75	18	0	30	159
RES (Wind, Solar, Biomass & Others)	83	161	229	5	0	477
Total	922	1433	814	544	53	3766
Share of RES in total generation (%)	9.03	11.22	28.07	0.83	0.04	12.67
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	43.96	16.80	43.68	25.86	35.58	30.83

H. All	India	Demand	<b>Diversity</b>	Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.097

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: 24-May-2020

							Date of Reporting:	24-May-2020
Sl	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
No Impo	rt/Export of ER (\	With NR)		1 \	1 \ /	1 ( )	1 , ,	. ,
1		ALIPURDUAR-AGRA	-	0	701	0.0	9.1	-9.1
2		PUSAULI B/B	S/C	0	251	0.0	6.1	-6.1
3		GAYA-VARANASI	D/C	140	503	0.0	8.6	-8.6
5		SASARAM-FATEHPUR	S/C S/C	200	329 375	0.0 0.0	3.7 6.5	-3.7 -6.5
6		GAYA-BALIA PUSAULI-VARANASI	S/C S/C	0	235	0.0	3.9	- <del>0.5</del> -3.9
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.0	-2.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1080	0.0	19.9	-19.9
9		PATNA-BALIA	O/C	0	895	0.0	18.9	-18.9
10		BIHARSHARIFF-BALIA	D/C D/C	0	421 319	0.0	7.6 5.4	-7.6 -5.4
11 12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	D/C D/C	161	309	0.0	3.4	-3.4 -3.4
13		PUSAULI-SAHUPURI	S/C	26	178	0.0	2.4	-2.4
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
Impo	rt/Export of ER (	With WR)			ER-NR	0.5	97.4	-96.8
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1558	0	25.2	0.0	25.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	843	111	5.9	0.0	5.9
-		JHARSUGUDA-DURG	D/C	160	76		0.0	
3	765 kV					0.2		0.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	118	81	0.4	0.0	0.4
5		RANCHI-SIPAT	D/C	323	0	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	89	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	D/C	199	0	2.5	0.0	2.5
					ER-WR	37.2	1.3	35.9
Impor	rt/Export of ER (\)		D/C	1	424	Λ Λ	100	10.0
2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	D/C D/C	0	436 1974	0.0 0.0	10.0 48.0	-10.0 -48.0
3	765 kV	ANGUL-SRIKAKULAM	D/C D/C	0	2891	0.0	57.5	-48.0 -57.5
4		TALCHER-I/C	D/C D/C	0	385	0.0	3.2	-3.2
5		BALIMELA-UPPER-SILERRU	S/C	<u> </u>	0	0.0	0.0	0.0
				•	ER-SR	0.0	115.4	-115.4
Impo	rt/Export of ER (							
1		BINAGURI-BONGAIGAON	D/C	219	233	1.5	0.0	1.5
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	132 26	295 76	0.0 0.0	1.3 0.4	-1.3 -0.4
3	<i>22</i> ∪ A ¥	LLII ONDOAN-UALANAII	<b>D</b> /C		ER-NER	1.5	1.7	-0.4
Impo	rt/Export of NER	(With NR)						<b>~~~</b>
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	350	0.0	7.3	-7.3
					NER-NR	0.0	7.3	-7.3
	rt/Export of WR (	With NR) CHAMPA-KURUKSHETRA	D/C	Ι ο	2257	0.0	546	<b>5</b> 1.6
2		V'CHAL B/B	D/C D/C	95	2257 247	0.0 2.0	54.6 0.8	-54.6 1.2
3		APL -MHG	D/C	0	1917	0.0	40.6	-40.6
4	765 kV	GWALIOR-AGRA	D/C	0	2187	0.0	43.7	-43.7
5		PHAGI-GWALIOR	D/C	0	1068	0.0	20.9	-20.9
6		JABALPUR-ORAI	D/C	0	780	0.0	29.9	-29.9
7		GWALIOR-ORAI	S/C	502	0	10.4	0.0	10.4
8		SATNA-ORAI	S/C	0	1320	0.0	28.3	-28.3
9 10		CHITORGARH-BANASKANTHA	D/C	0	839	0.0	11.2	-11.2
11		ZERDA-KANKROLI ZERDA -BHINMAL	S/C S/C	87 227	81 179	0.3 0.2	0.0	0.3
12		V'CHAL -RIHAND	S/C	973	0	22.8	0.0	22.8
13		RAPP-SHUJALPUR	D/C	79	211	0.0	1.7	-1.7
14		BHANPURA-RANPUR	S/C	18	48	1.9	0.9	1.0
15		BHANPURA-MORAK	S/C	0	116	0.0	0.3	-0.3
16		MEHGAON-AURAIYA	S/C	78	0	0.0	0.0	0.0
17		MALANPUR-AURAIYA	S/C	45	8	0.0	0.0	0.0
18 19		GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	S/C D/C	0	0	0.0	0.0	0.0
17	1 <i>34</i> R V	IN MULIA I - LALLIII UN	<b>□</b> /C	ι υ	WR-NR	37.6	233.0	-195.5
Impo	rt/Export of WR (							
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	21.2	-21.2
2		BARSUR-L.SILERU	- D/G	0	0	0.0	0.0	0.0
3		HVDC-RAIGARH-PUGALUR	D/C	0	151	0.0	0.7	<u>-0.7</u>
5		SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C D/C	0	2092 2397	0.0 0.0	30.7 44.7	-30.7 -44.7
6		WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C	424	185	3.1	0.0	3.1
7		KOLHAPUR-CHIKODI	D/C D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	99	1.7	0.0	1.7
					WR-SR	4.7	97.2	-92.5
			INTER	RNATIONAL EXCHA	NGES			
	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
					. ,	. ,	<i>G ( )</i>	(MU)
		ER	DAGACHU ( 2 * 63	)	0	0	0	0.0
			OTTO TO SECOND					
		ER	· · ·	SIRPARA RECEIPT	255	242	221	5.3
	BHUTAN	ER	MANGDECHHU (4	*	760	744	733	17.6
	DIIUIAIN	EK	ALIPURDUAR REC	CEIPT	/ 00	/44	133	1/.0
		ER	TALA ( 6 * 170 ) BI	NAGURI RECEIPT	1070	1067	1075	25.8
			, , , , , , , , , , , , , , , , , , ,					
Ī		NER	132KV-SALAKATI	- GELEPHU	0	0	43	1.0
Ī			1231757 P 43707 : -	NEOTH AND		Δ.	4.4	4 4
NJ		NER	132KV-RANGIA - I		0	0	44	1.1
		NR	132KV-Tanakpur(N	•	0	0	0	-0.1
		IVIX	Mahendranagar(PG	<del>(</del> )	V	U	V	-v.1
Ī	NEPAL	ER	132KV-BIHAR - NI	EPAL	-12	-1	-7	-0.2
			220KV-MUZAFFAI					
		ER	DHALKEBAR DC	M UK -	-102	-2	-8	-0.2
				<b></b>				
		ER	Bheramara HVDC	Bangladesh)	-953	-454	-735	-17.6
ъ.	ANCI ADEGII	NIED	132KV-SURAJMAN	NI NAGAR -	97	Λ	<b>5</b> 2	1.0
	ANGLADESH	NER	COMILLA(BANGI	LADESH)-1	86	0	-73	-1.8
Ī		NER	132KV-SURAJMAN	NI NAGAR -	86	0	-73	-1.8
		14717	COMILLA(BANGI	LADESH)-2	OU	U	-13	-1.0
<u></u>			,		•			