

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

दिनांक: 22<sup>th</sup> July 2022

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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 21.07.2022.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक २१-जुलाई-२०२२ 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 21<sup>st</sup> July 2022, 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						
	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDC:	s) 57514	51266	41960	26140	3168	180048
Peak Shortage (MW)	35	0	0	589	0	624
Energy Met (MU)	1272	1149	992	562	61	4036
Hydro Gen (MU)	338	106	131	129	36	740
Wind Gen (MU)	71	159	106		-	336
Solar Gen (MU)*	86.09	37.75	91.90	4.04	0.48	220
Energy Shortage (MU)	3.84	0.00	0.00	3.36	0.00	7.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62415	51325	46435	26499	3209	181146
Time Of Maximum Demand Met (From NLDC SCADA)	22:24	19:39	10:00	20:40	19:17	20:00
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 0.032	0.00	0.02	3.47	3.49	69.19	27.31
C. Power Supply 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)	Shortag
		dav(MW)	Demand(MW)	` -/	(MU)		,,	(MU)
	Punjab	10601	0	183.5	140.1	-16.5	93	0.00
NR	Haryana	8299	0	171.8	111.7	-1.4	235	0.00
	Rajasthan	10832	0	239.2	19.9	-1.3	458	0.00
	Delhi	5821	0	118.7	108.2	-1.4	108	0.00
	UP	23312	0	428.1	187.0	1.9	618	3.49
	Uttarakhand	2117	35	45.6	24.7	0.0	121	0.35
	HP	1610	0	33.4	-5.3	0.3	109	0.00
	J&K(UT) & Ladakh(UT)	1911	0	45.1	25.7	-5.8	161	0.00
	Chandigarh	271	0	6.1	6.6	-0.5	8	0.00
	Chhattisgarh	4286	0	97.5	50.3	-3.8	215	0.00
	Gujarat	15297	0	334.0	163.1	-1.9	561	0.00
	MP	9846	0	211.4	70.1	-0.1	714	0.00
WR	Maharashtra	20546	0	449.4	165.6	2.1	923	0.00
	Goa	592	0	12.1	12.5	-0.4	47	0.00
	DNHDDPDCL	1132	0	26.5	26.4	0.1	0	0.00
	AMNSIL	845	0	17.7	11.1	0.0	304	0.00
	Andhra Pradesh	9288	0	198.5	84.3	-0.3	547	0.00
	Telangana	10627	0	196.0	87.3	0.0	456	0.00
SR	Karnataka	9274	0	182.1	52.8	-0.3	917	0.00
	Kerala	3513	0	71.0	38.2	-0.1	243	0.00
	Tamil Nadu	15236	0	335.0	157.2	-0.3	459	0.00
	Puducherry	440	0	9.9	9.5	-0.3	52	0.00
	Bihar	6441	81	120.1	111.7	0.3	428	1.72
	DVC	3526	0	76.6	-32.7	-0.1	390	0.00
	Jharkhand	1672	439	32.9	25.7	-1.6	274	1.64
ER	Odisha	6037	0	131.4	68.2	0.8	319	0.00
	West Bengal	9520	0	199.4	78.2	0.7	587	0.00
	Sikkim	98	0	1.6	1.5	0.1	24	0.00
	Arunachal Pradesh	138	0	2.6	2.6	-0.3	45	0.00
	Assam	2113	0	40.2	32.7	0.1	106	0.00
	Manipur	188	0	2.5	2.7	-0.2	20	0.00
NER	Meghalaya	356	0	5.8	0.3	-0.2	69	0.00
	Mizoram	99	0	1.6	0.8	0.5	10	0.00
	Nagaland	143	0	2.7	2.3	-0.1	10	0.00
	Tripura	330	0	5.7	6.2	0.3	70	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	38.3	8.2	-23.9
Day Peak (MW)	1859.0	357.0	-1044.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(		•				
	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.8	-166.6	66.2	-47.7	-12.7	0.0
Actual(MU)	115.3	-158.7	84.2	-34.8	-11.9	-5.9
O/D/U/D(MU)	-45.5	8.0	18.0	12.8	0.8	-5.9

F. Generation Outage(MW)									
	NR	WR	SR	ER	NER	TOTAL	% Share		
Central Sector	3575	18011	5888	2820	309	30602	42		
State Sector	8225	18709	11117	3250	150	41450	58		
Total	11800	36719	17005	6070	459	72052	100		

G. Sourcewise generation (MU)									
	NR	WR	SR	ER	NER	All India	% Share		
Coal	656	971	437	498	14	2576	61		
Lignite	24	10	61	0	0	95	2		
Hydro	340	106	131	129	36	742	18		
Nuclear	29	40	68	0	0	137	3		
Gas, Naptha & Diesel	16	3	9	0	28	57	1		
RES (Wind, Solar, Biomass & Others)	174	197	241	4	0	617	15		
Total	1239	1328	947	631	78	4224	100		
CI ADTOL ( ) I (A())									
Share of RES in total generation (%)	14.08	14.87	25.45	0.64	0.61	14.62	i		
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.91	25.90	46.39	21.07	46.45	35.43	l		

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.048
Rosed on State May Demands	1.09/

Based on State Max Demands

1,084

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:	=(-ve) for NET (MU) 22-Jul-2022
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impo	ort/Export of ER (			<b>-</b>	<b>-</b> ()	<b>-</b>		1.22 ()
1		ALIPURDUAR-AGRA	2	0	501	0.0	12.2	-12.2
2		PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3		GAYA-VARANASI	2	1040	6	10.8	0.0	10.8
5		SASARAM-FATEHPUR GAYA-BALIA	1	313 22	89 572	1.8 0.0	0.0 6.0	1.8 -6.0
6		PUSAULI-VARANASI	i	0	99	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	44	45	0.2	0.0	0.2
8		MUZAFFARPUR-GORAKHPUR	2	50	779	0.0	9.3	-9.3
9 10		PATNA-BALIA NAUBATPUR-BALIA	2	0	591 576	0.0	8.0 7.4	-8.0 -7.4
11		BIHARSHARIFF-BALIA	2	156	363	0.0	3.7	-3.7
12		MOTIHARI-GORAKHPUR	2	77	421	0.0	5.1	-5.1
13		BIHARSHARIFF-VARANASI	2	382	73	3.3	0.0	3.3
14		SAHUPURI-KARAMNASA	1	39	109	0.0	0.8	-0.8
16		NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
17		KARMANASA-SAHUPURI	<u> </u>	0	0	0.0	0.8	-0.8
18		KARMANASA-CHANDAULI	î	ő	Ö	0.0	0.0	0.0
					ER-NR	16.3	55.8	-39.5
	rt/Export of ER (			C40		***	0.0	***
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	29.4	0.0	29.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1197	668	15.6	0.0	15.6
3		JHARSUGUDA-DURG	2	0	314	0.5	0.0	0.5
4		JHARSUGUDA-RAIGARH	4	0	312	1.7	0.0	1.7
5		RANCHI-SIPAT	2	306	180	3.1	0.0	3.1
6		BUDHIPADAR-RAIGARH	1	75	68	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	190	0	2.1	0.0	2.1
Impo	ort/Export of ER (	With SR)			ER-WR	52.5	0.3	52.2
1mpo		JEYPORE-GAZUWAKA B/B	2	587	0	14.5	0.0	14.5
2		TALCHER-KOLAR BIPOLE	2	0	2476	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3280	0.0	50.8	-50.8
4	400 kV	TALCHER-I/C	2	257	1004	0.0	7.4	-7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0 ER-SR	0.0	0.0 98.8	0.0
Impo	ort/Export of ER (	With NER)			EK-SK	14.5	98.8	-84.3
1		BINAGURI-BONGAIGAON	2	124	237	0.0	1.5	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	193	335	0.0	1.7	-1.7
3	220 kV	ALIPURDUAR-SALAKATI	2	10	108	0.0	1.1	-1.1
Imno	rt/Export of NER	(With NR)			ER-NER	0.0	4.3	-4.3
1		BISWANATH CHARIALI-AGRA	2	1 0	704	0.0	17.1	-17.1
					NER-NR	0.0	17.1	-17.1
Impo	rt/Export of WR (							
1		CHAMPA-KURUKSHETRA	2	0	1019	0.0	24.1	-24.1
3		VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	442	0 1015	12.1	0.0 23.0	12.1 -23.0
4		GWALIOR-AGRA	2	1022	1805	0.0 2.1	16.3	-14.2
5		GWALIOR-PHAGI	2	1642	1001	10.4	6.4	4.0
6		JABALPUR-ORAI	2	417	608	0.0	6.6	-6.6
7		GWALIOR-ORAI	1	650	35	7.5	0.0	7.5
8	765 kV 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1 2	0 1223	830	0.0	13.9 0.0	-13.9
10		VINDHYACHAL-VARANASI	2	0	87 3020	9.6	55.0	9.6 -55.0
11		ZERDA-KANKROLI	í	367	0	4.3	0.0	4.3
12	400 kV	ZERDA -BHINMAL	1	662	0	10.7	0.0	10.7
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	19.7	0.0	19.7
14		RAPP-SHUJALPUR	2	702	358	6.9	1.5	5.4
15 16	220 kV 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	1	0	30	0.0	0.0 2.2	-2.2
17		MEHGAON-AURAIYA	1	0 117	0	0.0	0.0	-2.2 0.7
18		MALANPUR-AURAIYA	1	90	11	1.3	0.0	1.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	i	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Imm	rt/Export of WR (	With SR)			WR-NR	85.4	149.0	-63.6
1		BHADRAWATI B/B	-	784	0	7.8	0.0	7.8
2	HVDC	RAIGARH-PUGALUR	2	2395	2499	0.0	22.2	-22.2
3	765 kV	SOLAPUR-RAICHUR	2	348	2209	0.7	12.4	-11.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3376	0.0	45.9	-45.9
6		KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2	1513	0	27.5 0.0	0.0	27.5
7		PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8		XELDEM-AMBEWADI	i	ŏ	101	1.9	0.0	1.9
	<del></del>		<del></del>		WR-SR	37.9	80.5	-42.6
		IN	TERNATIONAL EX	CHANGES			Import	+ve)/Export(-ve)
1	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
1		region .	400kV MANGDECHI		(171 77)	(172 77)	(	(MU)
1		ER	1,2&3 i.e. ALIPURDU		583	0	554	13.3
1			MANGDECHU HEP	4*180MW)	- 30			-50
1			400kV TALA-BINAG	URI 1,2,4 (& 400kV	4020		001	***
1		ER	MALBASE - BINAGU RECEIPT (from TAL		1020	0	901	21.6
1			220kV CHUKHA-BIR	PARA 1&2 (& 220kV			1	
1	BHUTAN	ER	MALBASE - BIRPAR		246	0	180	4.3
1			RECEIPT (from CHU	KITA HEP 4*84MW)			<del> </del>	
1		NER	132kV GELEPHU-SA	LAKATI	15	0	8	0.2
1							-	
1		NER	132kV MOTANGA-R	ANGIA	46	7	31	0.7
$\bot$		1,258		·				
1		NID.	132kV MAHENDRAN	AGAR-	<b>70</b>		20	0.7
1		NR	TANAKPUR(NHPC)		-69	0	-28	-0.7
1							1	
1	NEPAL	ER	NEPAL IMPORT (FR	OM BIHAR)	0	0	0	0.0
1							<del>                                     </del>	
1		ER	400kV DHALKEBAR	-MUZAFFARPUR 1&2	426	202	371	8.9
								***
1		ER	RHERAMADA R/D II	VDC (BANGLADESH)	-921	-875	-898	-21.6
1		EK	DIERAMARA D/B H	· » (DANGLADESH)	-941	-8/3	-070	-21.0
1			132kV COMILLA-SU	RAJMANI NAGAR				
		NER			-123	0	-98	-2.3
В	ANGLADESH	NEK	1&2		-123	· ·	,,,	2.0