

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th July 2023

Τo,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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 04.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-जुलाई-2023 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 04rd July 2023, is available at the NLDC website.

धन्यवाद.

ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Date of Reporting: 05-Jul-2023

Report for previous day

pply 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 RLDCs)	71334	56732	43853	25477	3115	200511
Peak Shortage (MW)	315	0	0	0	28	343
Energy Met (MU)	1631	1338	1079	576	63	4686
Hydro Gen (MU)	397	45	50	132	28	651
Wind Gen (MU)	45	72	248	-	-	364
Solar Gen (MU)*	135.44	50.18	92.20	2.74	1.09	282
Energy Shortage (MU)	4.33	0.00	0.00	0.89	0.59	5.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73465	59049	51050	27611	3166	206300
Time Of Maximum Demand Met	22:25	10:22	12:13	23:28	19:44	11:53

B. Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.035 0.00 0.00 2.49 2.49 71.81 25.70

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	14350	0	309.9	209.4	-1.7	194	0.00
	Haryana	11659	0	250.5	202.2	-1.3	256	4.07
	Rajasthan	13978	0	296.6	89.1	-5.2	320	0.00
	Delhi	6696	0	139.5	135.9	-2.7	247	0.00
NR	UP	24609	0	493.3	218.8	-0.9	340	0.00
	Uttarakhand	2151	0	47.4	22.9	0.9	203	0.26
	HP	1616	0	34.1	-9.3	-0.9	26	0.00
	J&K(UT) & Ladakh(UT)	2371	0	49.7	23.2	-0.2	216	0.00
	Chandigarh	326	0	6.8	6.8	-0.1	44	0.00
	Railways_NR ISTS	172	0	3.4	3.5	-0.1	32	0.00
	Chhattisgarh	5022	0	116.8	67.7	0.1	285	0.00
	Gujarat	17413	0	378.6	201.7	-1.2	828	0.00
	MP	10582	0	234.0	116.2	-2.0	650	0.00
WR	Maharashtra	24535	0	535.6	188.8	-2.1	678	0.00
	Goa	625	0	12.8	12.8	-0.5	37	0.00
	DNHDDPDCL	1284	0	29.7	29.9	-0.2	47	0.00
	AMNSIL	802	0	17.9	10.2	0.5	255	0.00
	BALCO	519	0	12.4	12.4	0.0	59	0.00
	Andhra Pradesh	10314	0	213.7	37.6	2.1	761	0.00
	Telangana	11616	0	230.0	116.7	1.9	1199	0.00
SR	Karnataka	11484	0	219.1	63.2	1.3	674	0.00
	Kerala	3334	0	68.8	53.5	0.7	330	0.00
	Tamil Nadu	16185	0	339.1	108.6	-6.5	455	0.00
	Puducherry	408	0	8.1	8.1	-0.7	31	0.00
	Bihar	6182	0	119.7	116.5	-2.1	287	0.39
	DVC	3363	0	76.1	-41.3	0.1	299	0.00
	Jharkhand	1715	0	35.5	28.5	-1.8	139	0.50
ER	Odisha	5696	0	125.0	44.0	0.3	507	0.00
	West Bengal	10404	0	218.1	88.6	-1.3	481	0.00
	Sikkim	87	0	1.3	1.5	-0.2	10	0.00
	Railways_ER ISTS	20	0	0.2	0.3	-0.1	0	0.00
	Arunachal Pradesh	139	0	2.6	2.0	0.4	132	0.00
	Assam	2110	0	41.5	34.0	1.1	163	0.08
	Manipur	187	0	2.7	2.6	0.1	34	0.00
NER	Meghalaya	312	12	5.4	1.6	-0.2	119	0.51
	Mizoram	112	0	1.9	1.6	-0.2	18	0.00
	Nagaland	137	0	2.7	2.5	-0.2	21	0.00
	Tripura	322	0	6.0	5.3	0.6	93	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.2	8.8	-25.0	-14.7
Day Peak (MW)	1984.0	381.3	-1100.0	-670.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.0	-219.3	21.9	-132.8	0.1	0.0
Actual(MU)	302.4	-218.6	48.2	-134.4	2.5	0.2
O/D/U/D(MU)	-27.6	0.7	26.3	-1.6	2.4	0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3329	10356	7618	2220	818	24341	45
State Sector	7450	13685	6523	2310	261	30229	55
Total	10778	24041	14141	4530	1079	54569	100

G. Sourcewise generation (Gross) (MU)

G. Both cewise generation (Gross) (Me)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1428	612	642	15	3451	68
Lignite	27	12	51	0	0	90	2
Hydro	397	45	50	133	28	651	13
Nuclear	29	47	46	0	0	122	2
Gas, Naptha & Diesel	15	23	7	0	23	68	1
RES (Wind, Solar, Biomass & Others)	188	123	358	4	1	673	13
Total	1409	1678	1123	779	67	5056	100
Share of RES in total generation (%)	13.32	7.30	31.84	0.55	1.63	13.35]
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	43.56	12.77	40.38	17.88	42.73	28.70	

H. All	India	Demand	Diversity	Factor

in total generation(%)

11. All fildia Deliland Diversity Factor	
Based on Regional Max Demands	1.038
Based on State Max Demands	1.080

I. All India Peak	Demand and shortage at Solar and	Non-Solar Hour
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	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206300	11:53	81
Non-Solar hr	203475	22:25	1071

 $\label{eq:Diversity factor} Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand **Note:\ All\ generation\ MU\ figures\ are\ gross$

 $^{***} Godda\ (Jharkhand) -> Bangladesh\ power\ exchange\ is\ through\ the\ radial\ connection\ (isolated\ from\ Indian\ Grid)$

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours
*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: 05-Jul-2023

							Date of Reporting:	05-Jul-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import	t/Export of ER (With NR) ALIPURDUAR-AGRA	2	0	1501	0.0	35.6	-35.6
2	HVDC	PUSAULI B/B		0	97	0.0	2.4	-2.4
4	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	1	133	632 383	0.0	5.3 5.3	-5.3 -5.3
6	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0	696 94	0.0	11.2 1.3	-11.2 -1.3
7 8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	94 881	0.0	1.0 14.6	-1.0 -14.6
9	400 kV 400 kV	PATNA-BALIA NAUBATPUR-BALIA	2 2	0	628 663	0.0	12.1 12.1	-12.1 -12.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	387	0.0	4.8	-4.8
12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	0 61	513 290	0.0	9.0 2.5	-9.0 -2.5
14 15	220 kV 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	0	117 0	0.0	1.5 0.0	-1.5 0.0
16 17	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	30	0 50	0.7 0.0	0.0	0.7 0.0
18	132 kV 132 kV	KARMANASA-SAHUFURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
Impor	t/Export of ER (With WR)			ER-NR	0.7	118.7	-118.0
1 2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	1303 1673	0 177	16.7 22.5	0.0	16.7 22.5
3	765 kV	JHARSUGUDA-DURG	2	10	290	0.0	3.5	-3.5
5	400 kV 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	0 315	464 138	2.8	6.9 0.0	-6.9 2.8
7	220 kV 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0 83	99	0.0	2.4	-2.4 0.2
				6.5	ER-WR	42.1	12.8	29.3
Import	t/Export of ER (\) HVDC	With SR) JEYPORE-GAZUWAKA B/B	2	0	557	0.0	9.5	-9.5
2	HVDC	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2	0	991 2393	0.0	18.3 38.9	-18.3
3	765 kV 400 kV	TALCHER-I/C	2 2	737	0	10.0	0.0	-38.9 10.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 66.7	0.0 -66.7
	t/Export of ER (T -	· -				
2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0 252	409 298	0.0	6.0 1.1	-6.0 -1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	2	92 ER-NER	0.0 0.0	1.2 8.3	-1.2 -8.3
Impor	t/Export of NER	(With NR)			ER-NEK	0.0	0.3	-0.3
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	307 NER-NR	0.0	7.3 7.3	-7.3 -7.3
Impor	t/Export of WR	(With NR)			HER-HR	0.0	7.5	-7.5
2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	0 442	4032 0	0.0 12.2	56.9 0.0	-56.9 12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	264	0	0.0	6.0 32.5	-6.0
5	765 kV 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	0	2341 1863	0.0	26.7	-32.5 -26.7
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	1	0 745	1231 0	0.0 11.5	35.5 0.0	-35.5 11.5
8	765 kV 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1 2	0 1453	1198 790	0.0 14.3	22.4 3.7	-22.4 10.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3449	0.0	57.5	-57.5
11 12	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	260 565	90 47	2.7 6.2	0.4 0.1	2.2 6.1
13 14	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	955 222	0 684	21.4 1.3	0.0 6.7	21.4 -5.5
15 16	220 kV 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	1	0	0 30	0.0	0.0 2.7	0.0 -2.7
17	220 kV	MEHGAON-AURAIYA	1	85	0	1.0	0.0	1.0
18 19	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	57 0	21 0	0.5 0.0	0.1 0.0	0.5 0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0 WR-NR	0.0 71.0	0.0 251.3	0.0 -180.3
Impor	t/Export of WR						•	
2	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	781 0	0 3004	2.7 0.0	6.0 25.9	-3.3 -25.9
3	765 kV 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	2113	258 2345	22.0 0.0	0.3 31.3	21.8 -31.3
5	400 kV	KOLHAPUR-KUDGI	2	1480	0	27.3	0.0	27.3
7	220 kV 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0 0.0	0.0 0.0
8	220 kV	XELDEM-AMBEWADI	1	0	112 WR-SR	2.1 54.2	0.0 63.4	2.1 -9.2
		IN	TERNATIONAL EX	CHANGES	II K-JK	U-1.2		(+ve)/Export(-ve)
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
		ER	400kV MANGDECHHU- ALIPURDUAR RECEIP	ALIPURDUAR 1,2&3 i.e.	0	0	0	(MU) 14.62
		ER	HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	I) i.e. BINAGURI	0	0	0	23.73
	BHUTAN	ER	RECEIPT (from TALA F 220kV CHUKHA-BIRPA MALBASE - BIRPARA)		0	0	0	3.34
		NER	(from CHUKHA HEP 4*) 132kV GELEPHU-SALA	84MW)	31	6	22	0.52
		NER	132kV MOTANGA-RAN		58	8	41	0.98
		NR		GAR-TANAKPUR(NHPC)	-47	0	-12	-0.29
	NEPAL	ER	NEPAL IMPORT (FROM		-27	0	-3	-0.08
		ER	400kV DHALKEBAR-M	UZAFFARPUR 1&2	455	239	381	9.14
		ER	BHERAMARA B/B HVD	C (B'DESH)	-937	-863	-896	-21.50
BA	ANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-670	-555	-610	-14.65
		NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-163	0	-145	-3.48