

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: 15th July 2023

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
- 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 14.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th July 2023, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: 15-Jul-2023

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 RLDCs)	67437	56281	48275	27012	3193	202198
Peak Shortage (MW)	1498	107	0	0	19	1624
Energy Met (MU)	1514	1323	1131	586	61	4616
Hydro Gen (MU)	335	58	55	130	33	611
Wind Gen (MU)	41	124	215	-	-	380
Solar Gen (MU)*	129.23	46.56	114.83	2.16	0.93	294
Energy Shortage (MU)	6.81	1.81	0.00	0.99	1.14	10.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68316	58691	53302	29190	3219	205712
Time Of Maximum Demand Met	22:30	10:41	12:44	00:02	19:06	11:38

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 0.045 0.00 0.00 1.40 1.40 71.74 26.86

C. Power Supply Position in States

11.	obilion 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	13906	0	295.0	172.5	-1.7	87	0.00
	Haryana	10150	0	215.4	157.8	-1.3	176	0.00
	Rajasthan	12654	0	270.8	85.1	0.9	405	5.35
	Delhi	5862	0	123.4	119.8	-2.5	102	0.00
NR	UP	24652	0	475.5	206.2	0.9	745	0.00
	Uttarakhand	1843	75	40.0	19.8	0.1	138	0.48
	HP	1520	0	31.5	8.1	0.6	192	0.07
	J&K(UT) & Ladakh(UT)	2470	0	53.2	26.4	0.6	84	0.91
	Chandigarh	311	0	6.3	6.2	0.1	22	0.00
	Railways_NR ISTS	153	0	3.3	3.3	-0.1	22	0.00
	Chhattisgarh	5216	91	120.1	73.2	0.5	403	1.81
	Gujarat	17023	0	378.4	158.0	-1.1	403	0.00
	MP	10885	0	226.7	113.1	-3.7	411	0.00
WR	Maharashtra	23431	0	524.3	181.2	-2.2	566	0.00
	Goa	630	0	12.9	12.7	-0.1	37	0.00
	DNHDDPDCL	1295	0	30.4	30.3	0.1	98	0.00
	AMNSIL	869	0	17.5	10.5	-1.3	0	0.00
	BALCO	522	0	12.4	12.5	-0.1	526	0.00
	Andhra Pradesh	10075	0	212.4	33.6	1.4	1107	0.00
	Telangana	12610	0	260.1	149.2	0.4	693	0.00
SR	Karnataka	12038	0	222.7	60.7	-0.2	490	0.00
	Kerala	3815	0	76.5	55.2	1.6	387	0.00
	Tamil Nadu	16221	0	349.5	158.6	-2.1	513	0.00
	Puducherry	456	0	10.1	9.7	-0.3	32	0.00
	Bihar	6350	0	128.3	121.2	-1.7	470	0.85
	DVC	3430	0	76.5	-42.8	0.3	206	0.00
	Jharkhand	1766	0	38.9	33.1	0.8	193	0.15
ER	Odisha	6970	0	120.5	47.4	-0.8	498	0.00
	West Bengal	10558	0	220.7	103.0	-1.3	384	0.00
	Sikkim	83	0	1.3	1.3	0.0	22	0.00
	Railways_ER ISTS	16	0	0.3	0.3	0.0	5	0.00
	Arunachal Pradesh	142	0	2.6	2.4	0.0	36	0.00
	Assam	2139	0	40.9	34.5	0.8	177	0.00
	Manipur	184	0	2.6	2.5	0.2	24	0.00
NER	Meghalaya	330	19	4.9	0.5	0.0	65	1.14
	Mizoram	108	0	1.8	1.6	-0.2	18	0.00
	Nagaland	157	0	2.9	2.6	-0.2	9	0.00
	Tripura	314	0	5.7	5.6	0.0	45	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.7	10.8	-24.7	-14.7
Day Peak (MW)	1897.0	417.0	-1089.0	-648.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	311.7	-292.4	101.5	-114.6	-6.2	0.0
Actual(MU)	283.3	-303.4	120.2	-103.5	-4.0	-7.4
O/D/U/D(MU)	-28 4	-11.0	18 7	11 1	2.3	-7 4

F. Generation Outage(MW)

oneration outage(nr++)								
	NR	WR	SR	ER	NER	TOTAL	% Share	
Central Sector	3861	10432	7218	1705	338	23554	43	
State Sector	7875	13091	7693	2820	306	31784	57	
Total	11736	23523	14911	4525	644	55338	100	

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	735	1417	565	624	14	3355	67
Lignite	24	17	59	0	0	100	2
Hydro	335	58	55	130	33	611	12
Nuclear	29	47	46	0	0	122	2
Gas, Naptha & Diesel	24	30	6	0	25	85	2
RES (Wind, Solar, Biomass & Others)	177	171	348	4	1	700	14
Total	1324	1740	1080	758	73	4974	100
Share of RES in total generation (%)	13.35	9.83	32.25	0.47	1.28	14.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.82	15.84	41.62	17.66	46.97	28.82	

H. All India Demand Diversity Factor

11. 111 India Belliana Biversity Tuctor	
Based on Regional Max Demands	1.034
Based on State Max Demands	1.075
•	

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	205712	11:38	81
Non-Solar hr	202790	19:52	944

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: 15-Jul-2023 |
| Export (MU) | NET (MU)

							Date of Reporting:	15-Jul-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	t/Export of ER (V	With NR)	1					
1		ALIPURDUAR-AGRA	2	0	1003 147	0.0 0.0	23.5 3.8	-23.5
3		PUSAULI B/B GAYA-VARANASI	2	724	366	0.0	0.3	-3.8 -0.3
4	765 kV	SASARAM-FATEHPUR	1	177	223	0.0	1.8	-1.8
6		GAYA-BALIA PUSAULI-VARANASI	1	0	608 136	0.0	8.7 2.2	-8.7 -2.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.4	-1.4
9		MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	728 463	0.0	12.7 7.9	-12.7 -7.9
10	400 kV	NAUBATPUR-BALIA	2	44	481	0.0	7.8	-7.8
11 12		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	104 0	197 409	0.0	2.6 7.0	-2.6 -7.0
13	400 kV	BIHARSHARIFF-VARANASI	2	269	155	0.0	0.3	-0.3
14 15		SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	0	131 0	0.0	1.9 0.0	-1.9 0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17 18		KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	62	0.0	0.0	0.0
10	132 KV	KARWANASA-CHANDAULI	1	U	ER-NR	0.7	81.8	-81.1
	t/Export of ER (\							
2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	1345 1517	0 482	20.8 20.8	0.0	20.8 20.8
3	765 kV	JHARSUGUDA-DURG	2	192	471	0.0	2.6	-2.6
5		JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	3 343	553 186	0.0 3.4	5.5 0.0	-5.5 3.4
6		BUDHIPADAR-RAIGARH	1	0	44	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	78	4 ED WD	0.0	0.2	-0.2
Impor	t/Export of ER (V	With SR)			ER-WR	45.0	10.5	34.5
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	460	0.0	10.1	-10.1
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1977 2685	0.0	33.7 41.9	-33.7 -41.9
4	400 kV	TALCHER-I/C	2 2	164	638	0.0	0.8	-0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ED SD	0.0	0.0	0.0
Impor	t/Export of ER (V	With NER)			ER-SR	0.0	85.7	-85.7
1	400 kV	BINAGURI-BONGAIGAON	2	46	368	0.1	4.2	-4.1
3	400 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	240 15	391 115	0.0	2.0 1.2	-2.0
3	220 KV	ALIFURDUAR-SALAKATI	- 4	15	ER-NER	0.0	7.4	-1.2 -7.3
	t/Export of NER							
1		BISWANATH CHARIALI-AGRA	2	0	503 NER-NR	0.0	12.1 12.1	-12.1 -12.1
Impor	t/Export of WR (With NR)			NEK-NK	0.0	12.1	-12.1
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4024	0.0	81.9	-81.9
3	HVDC HVDC	VINDHYACHAL B/B	2	441	0 493	12.2	0.0 3.8	12.2
4	765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2	263 13	2164	0.0	28.2	-3.8 -28.2
5	765 kV	GWALIOR-PHAGI	2	112	1624	0.1	22.0	-21.9
7		JABALPUR-ORAI GWALIOR-ORAI	1	0 615	1089 0	0.0 10.8	28.2 0.0	-28.2 10.8
8	765 kV	SATNA-ORAI	1	0	1088	0.0	21.0	-21.0
9 10		BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2 2	763 0	1089 3294	5.8 0.0	6.9 58.3	-1.0 -58.3
11	400 kV	ZERDA-KANKROLI	1	175	156	1.3	0.8	0.5
12		ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	462 951	142 0	5.0 21.8	0.5	4.5 21.8
14	400 kV	RAPP-SHUJALPUR	2	172	613	0.7	5.0	-4.4
15 16		BHANPURA-RANPUR BHANPURA-MORAK	1	0	30	0.0	0.0 2.3	0.0 -2.3
17	220 kV	MEHGAON-AURAIYA	1	121	0	1.7	0.0	1.7
18 19	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	93	0	1.1 0.0	0.0	1.1 0.0
20		RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	60.5	258.7	-198.2
Import	t/Export of WR (HVDC	With SR) BHADRAWATI B/B		301	1007	3.3	7.7	-4.5
2	HVDC	RAIGARH-PUGALUR	2	0	5016	0.0	59.9	-59.9
3	765 kV 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	1440	1503 2793	8.9 0.0	3.4 37.0	5.5 -37.0
5	400 kV	KOLHAPUR-KUDGI	2	1461	0	24.1	0.0	24.1
7		KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
8		YELDEM-AMBEWADI	1	0	105	2.0	0.0	2.0
					WR-SR	38.2	108.1	-69.8
		IN	TERNATIONAL EX	CHANGES			Import(+ve)/Export(-ve)
	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
		ER	400kV MANGDECHHU- ALIPURDUAR RECEIP'	ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	0	0	0	14.18
			HEP 4*180MW) 400kV TALA-BINAGUR	, , ,	_			
		ER	MALBASE - BINAGUR RECEIPT (from TALA F 220kV CHUKHA-BIRPA		0	0	0	24.03
	BHUTAN	ER	MALBASE - BIRPARA)	i.e. BIRPARA RECEIPT	0	0	0	4.05
	Direthin		(from CHUKHA HEP 4*84MW)				_	0.00
		NER	132kV GELEPHU-SALA	KATI	0	0	0	0.00
			132kV GELEPHU-SALA					
		NER NER			-65	14	-25	-0.60
			132kV GELEPHU-SALA 132kV MOTANGA-RAN					
	NEPAL	NER	132kV GELEPHU-SALA 132kV MOTANGA-RAN	GIA GAR-TANAKPUR(NHPC)	-65	14	-25	-0.60
		NER NR	132kV GELEPHU-SALA 132kV MOTANGA-RAN 132kV MAHENDRANAC	GIA GAR-TANAKPUR(NHPC) 4 BIHAR)	-65	0	-25	-0.60 -0.58
		NER NR ER	132kV GELEPHU-SALA 132kV MOTANGA-RAN 132kV MAHENDRANAO NEPAL IMPORT (FROM	GIA GAR-TANAKPUR(NHPC) ### BIHAR UZAFFARPUR 1&2	-65 0	0	0	-0.60 -0.58 0.00
B		NER NR ER ER ER ER	132kV GELEPHU-SALA 132kV MOTANGA-RAN 132kV MAHENDRANAO NEPAL IMPORT (FROM 400kV DHALKEBAR-M	GIA GAR-TANAKPUR(NHPC) ### BIHAR UZAFFARPUR 1&2 IC (B'DESH)	-65 0 0 481 -917	14 0 0 353 -780	-25 0 0 476	-0.60 -0.58 0.00 11.43
BA	NEPAL	NER NR ER ER	132kV GELEPHU-SALA 132kV MOTANGA-RAN 132kV MAHENDRANAO NEPAL IMPORT (FROM 400kV DHALKEBAR-M BHERAMARA B/B HVD	GIA GAR-TANAKPUR(NHPC) M BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	-65 0 0 481	0 0 0 353	-25 0 0 476 -885	-0.60 -0.58 0.00