

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

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दिनांक: 19th July 2023

To,

- 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 18.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th July 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 19-Jul-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	70438	55001	45446	26168	3389	200442
Peak Shortage (MW)	175	0	0	578	38	791
Energy Met (MU)	1589	1291	1073	591	65	4610
Hydro Gen (MU)	372	57	44	132	37	642
Wind Gen (MU)	27	143	272	-	-	442
Solar Gen (MU)*	124.45	36.10	75.98	1.85	1.37	240
Energy Shortage (MU)	0.42	0.00	0.00	2.30	0.34	3.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71773	57067	49927	28436	3408	202935
Time Of Maximum Demand Met	22:23	19:33	09:46	21:56	19:40	19:50

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	0.029	0.00	0.09	5.38	5.47	81.15	13.38

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)	Shortage (MU)
		day (MW)	Demand (MW)	(MU)	(MU)	(IVIU)	(IVI VV)	
	Punjab	14394	0	308.5	174.5	-1.8	233	0.00
	Haryana	10012	0	218.9	169.4	-2.0	138	0.00
	Rajasthan	13098	0	285.0	96.6	-1.8	363	0.00
	Delhi	5879	0	127.3	122.6	-2.3	67	0.00
NR	UP	25976	0	509.9	243.3	-0.7	390	0.00
	Uttarakhand	1959	0	44.0	27.8	-0.1	163	0.30
	HP	1565	0	32.8	3.8	-0.4	56	0.00
	J&K(UT) & Ladakh(UT)	2446	100	52.5	26.8	-0.5	193	0.12
	Chandigarh	352	0	7.1	7.3	-0.2	24	0.00
	Railways_NR ISTS	152	0	3.2	3.5	-0.3	0	0.00
	Chhattisgarh	4514	0	100.3	53.5	-0.9	252	0.00
	Gujarat	17672	0	389.3	167.1	-0.6	392	0.00
	MP	10867	0	232.0	120.5	-1.1	663	0.00
WR	Maharashtra	22723	0	495.4	186.3	-4.7	518	0.00
	Goa	622	0	12.5	12.8	-0.7	25	0.00
	DNHDDPDCL	1306	0	30.2	30.3	-0.1	31	0.00
	AMNSIL	818	0	18.7	9.8	0.0	255	0.00
	BALCO	522	0	12.4	12.5	-0.1	9	0.00
	Andhra Pradesh	9403	0	199.8	30.2	-3.2	542	0.00
	Telangana	10595	0	210.6	101.1	-2.8	667	0.00
\mathbf{SR}	Karnataka	11004	0	207.0	48.3	-2.7	432	0.00
	Kerala	3906	0	80.0	60.1	1.2	260	0.00
	Tamil Nadu	17025	0	365.9	145.9	-3.7	462	0.00
	Puducherry	462	0	10.3	10.0	-0.4	16	0.00
	Bihar	6870	561	145.2	134.8	-0.7	281	2.30
	DVC	3370	0	76.0	-38.5	-0.4	186	0.00
	Jharkhand	1784	0	36.9	32.3	0.2	114	0.00
$\mathbf{E}\mathbf{R}$	Odisha	6347	0	116.9	34.9	-0.1	283	0.00
	West Bengal	10087	0	215.0	104.2	-2.3	282	0.00
	Sikkim	83	0	1.2	1.2	0.0	19	0.00
	Railways_ER ISTS	23	0	0.1	0.4	-0.2	9	0.00
	Arunachal Pradesh	159	0	2.8	2.6	-0.4	20	0.00
	Assam	2255	0	43.7	35.2	1.0	129	0.00
	Manipur	190	0	2.7	2.7	0.0	22	0.00
NER	Meghalaya	323	0	5.5	0.9	-0.3	38	0.34
	Mizoram	112	0	1.9	1.6	-0.1	15	0.00
	Nagaland	164	0	2.9	2.6	-0.1	11	0.00
	Tuinne	224	0	5 0	5.0	0.0	60	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.8	7.1	-25.3	-14.7
Day Peak (MW)	1983.7	306.0	-1106.0	-659.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	337.1	-269.3	41.0	-100.0	-8.8	0.0
Actual(MU)	317.6	-264.5	41.5	-91.2	-7.0	-3.6
O/D/U/D(MU)	-19.5	4.8	0.5	8.8	1.8	-3.6

16.93

F. Generation Outage(MW)

Troumer and Carago (1.277)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2747	10929	7718	2860	271	24525	45
State Sector	7040	14186	5623	2710	212	29770	55
Total	9787	25114	13341	5570	483	54295	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	755	1353	578	612	14	3312	67
Lignite	26	15	56	0	0	97	2
Hydro	372	57	44	132	37	642	13
Nuclear	29	47	46	0	0	122	2
Gas, Naptha & Diesel	22	26	7	0	28	82	2
RES (Wind, Solar, Biomass & Others)	158	180	366	3	1	708	14
Total	1362	1679	1097	747	80	4963	100
St CDES :- 4-4-14: (0/)	11.60	40.74	22.25	0.20	1.50	110=	7
Share of RES in total generation (%)	11.60	10.74	33.37	0.38	1.72	14.27	
Share of Non-fossil fuel (Hydro, Nuclear and RES)	41.06	16 02	41 56	18.07	10 10	20.66	

41.56

H. All India Demand Diversity Factor

in total generation(%)

11. 111 Illian Demaila Biversity I detor	
Based on Regional Max Demands	1.037
Based on State Max Demands	1.080
•	

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

18.07

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202416	11:57	45
Non-Solar hr	202935	19:50	75

48.18

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

29.66

^{**}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: 19-Jul-2023

Import/Export of ER (With NR) 1	-24.1 -2.7 -1.9 -2.0 -11.0 -1.6 -1.0 -1.3.0 -6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 0.7 -0.0 -83.3
A	-2.7 -1.9 -2.0 -1.1.0 -1.6 -1.0 -1.3.0 -6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -0.7 -0.0 -83.3
4	-2.0 -11.0 -1.6 -1.0 -1.3.0 -6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -83.3 -14.6 -24.2 -3.7 -5.5 -3.6
S	-1.6 -1.0 -13.0 -6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -0.0 -83.3 -14.6 -24.2 -3.7 -5.5 -3.6
Total	-1.0 -13.0 -6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -83.3 -14.6 -24.2 -3.7 -5.5 -3.6
9	-6.7 -6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -0.0 -83.3 -14.6 -24.2 -3.7 -5.5 -3.6
10	-6.3 -3.0 -8.3 -0.8 -1.7 -0.0 -0.7 -0.0 -0.0 -83.3 -14.6 -24.2 -3.7 -5.5 -3.6
12	-8.3 -0.8 -1.7 0.0 0.7 0.0 0.0 -83.3 14.6 24.2 -3.7 -5.5 3.6
13	-0.8 -1.7 0.0 0.7 0.0 0.0 -83.3 14.6 24.2 -3.7 -5.5
1	0.0 0.7 0.0 0.0 -83.3 14.6 24.2 -3.7 -5.5 3.6
17 132 kV KARMANASA-SAHUPURI 1 0 40 0.0 0.0 0.0 18 132 kV KARMANASA-CHANDAULI 1 0 0 0 0.0 0.0 0.0	0.0 0.0 -83.3 14.6 24.2 -3.7 -5.5 3.6
18 132 kV KARMANASA-CHANDAULI 1 0 0 0.0 0.0	0.0 -83.3 14.6 24.2 -3.7 -5.5 3.6
Import/Export of ER (With WR) 1 765 kV	14.6 24.2 -3.7 -5.5 3.6
1 765 kV JHARSUGUDA-DHARAMJAIGARH 4 1266 76 14.6 0.0 2 765 kV NEW RANCHI-DHARAMJAIGARH 2 1733 320 24.2 0.0 3 765 kV JHARSUGUDA-DURG 2 153 537 0.0 3.7 4 40 kV JHARSUGUDA-RAIGARH 4 69 745 0.0 5.5 5 400 kV RANCHI-SIPAT 2 406 204 3.6 0.0 6 220 kV BUDHIPADAR-RAIGARH 1 0 44 0.0 1.2 7 220 kV BUDHIPADAR-KORBA 2 73 38 0.0 0.3 Import/Export of ER (With SR) 1 HVDC JEYPORE-GAZUWAKA B/B 2 189 450 0.0 2.7	24.2 -3.7 -5.5 3.6
3 765 kV	-3.7 -5.5 3.6
4 400 kV JHARSUGUDA-RAIGARH 4 69 745 0.0 5.5 5 400 kV RANCHI-SIPAT 2 406 204 3.6 0.0 6 220 kV BUDHIPADAR-RAIGARH 1 0 44 0.0 1.2 7 220 kV BUDHIPADAR-KORBA 2 73 38 0.0 0.3 ER-WR 42.4 10.7 Import/Export of ER (With SR) 1 HVDC JEYPORE-GAZUWAKA B/B 2 189 450 0.0 2.7	-5.5 3.6
6 220 kV BUDHIPADAR-RAIGARH 1 0 44 0.0 1.2 7 220 kV BUDHIPADAR-KORBA 2 73 38 0.0 0.3 ER-WR 42.4 10.7 Import/Export of ER (With SR) 1 HVDC JEYPORE-GAZUWAKA B/B 2 189 450 0.0 2.7	
ER-WR 42.4 10.7	
Import/Export of ER (With SR) 1	-0.3 31.7
	31.7
	-2.7
3 765 kV ANGUL-SRIKAKULAM 2 0 2679 0.0 38.4	-27.3 -38.4
4 400 kV TALCHER-I/C 2 625 426 3.9 0.0 5 220 kV BALIMELA-UPPER-SILERRU 1 0 0 0.0 0.0	3.9
ER-SR 0.0 68.3	-68.3
Import/Export of ER (With NER) 1 400 kV BINAGURI-BONGAIGAON 2 124 292 0.1 3.0	-2.8
2 400 kV ALIPURDUAR-BONGAIGAON 2 361 241 0.0 0.2	-0.2
3 220 kV ALIPURDUAR-SALAKATI 2 37 74 0.0 0.7 ER-NER 0.1 3.8	-0.7 -3.7
Import/Export of NER (With NR)	
1 HVDC BISWANATH CHARIALI-AGRA 2 0 503 0.0 12.0 NER-NR 0.0 12.0	-12.0 -12.0
Import/Export of WR (With NR)	-12.0
1 HVDC CHAMPA-KURUKSHETRA 2 0 5045 0.0 87.4 2 HVDC VINDHYACHAL B/B - 435 0 7.1 0.0	-87.4 7.1
3 HVDC MUNDRA-MOHINDERGARH 2 260 0 5.9 0.0	5,9
4 765 kV GWALIOR-AGRA 2 0 2230 0.0 35.3 5 765 kV GWALIOR-PHAGI 2 0 1552 0.0 23.4	-35.3 -23.4
6 765 kV JABALPUR-ORAI 2 0 1113 0.0 35.0	-35.0
7 765 kV GWALIOR-ORAI 1 696 0 11.6 0.0 8 765 kV SATNA-ORAI 1 0 1056 0.0 21.8	11.6 -21.8
9 765 kV BANASKANTHA-CHITORGARH 2 841 1152 4.4 6.8	-2.4
10 765 kV VINDHYACHAL-VARANASI 2 0 3401 0.0 62.7 11 400 kV ZERDA-KANKROLI 1 162 171 1.0 0.9	-62.7 0.1
12 400 kV ZERDA -BHINMAL 1 389 250 2.5 1.2 13 400 kV VINDHYACHAL -RIHAND 1 959 0 21.5 0.0	1.3 21.5
14 400 kV RAPP-SHUJALPUR 2 59 608 0.1 6.3	-6.2
15 220 kV BHANPURA-RANPUR 1 0 0 0.0 0.0 16 220 kV BHANPURA-MORAK 1 0 30 0.0 2.4	0.0 -2.4
17 220 kV MEHGAON-AURAIYA 1 114 0 1.6 0.0	1.6
18 220 kV MALANPUR-AURAIYA 1 83 0 0.9 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0.0	0.9
20 132 kV RAJGHAT-LALITPUR 2 0 0 0.0 0.0 0.0 WR-NR 56.6 283.0	0.0 -226.5
Import/Export of WR (With SR)	-220.3
1 HVDC BHADRAWATI B/B - 994 1000 9.3 6.9 2 HVDC RAIGARH-PUGALUR 2 0 2001 0.0 18.8	2.4 -18.8
3 765 kV SOLAPUR-RAICHUR 2 1957 1063 13.4 2.0	11.4
4 765 kV WARDHA-NIZAMABAD 2 247 2563 0.1 26.6 5 400 kV KOLHAPUR-KUDGI 2 1486 0 23.0 0.0	-26.5 23.0
6 220 kV KOLHAPUR-CHIKODI 2 0 0 0.0 0.0	0.0
8 220 kV XELDEM-AMBEWADI 1 0 115 2.1 0.0	0.0 2.1
WR-SR 47.9 54.3	-6.4
	t(+ve)/Export(-ve) Energy Exchange
State Region Line Name Max (MW) Min (MW) Avg (MW)	(MU)
400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ER ALIPURDUAR RECEIPT (from MANGDECHU 687 583 627	15.05
HEP 4*180MW) 400kV TALA-BINAGURI 1,2,4 (& 400kV	+
ER MALBASE - BINAGURI) i.e. BINAGURI 1115 935 976	23.43
RECEIPT (from TALA HEP 6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV	+
BHUTAN ER MALBASE - BIRPARA) i.e. BIRPARA RECEIPT 196 39 165	3.97
(from CHUKHA HEP 4*84MW)	
NER 132kV GELEPHU-SALAKATI 26 0 7	0.18
NER 132kV MOTANGA-RANGIA 65 35 50	1.20
NER 152RV MOTANGA-RANGIA 05 55 50	1.20
NR 132kV MAHENDRANAGAR-TANAKPUR(NHPC) -66 0 -22	-0.53
	-
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0	0.00
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 372 239 318	7.63
ER BHERAMARA B/B HVDC (B'DESH) -930 -786 -899	-21.58
BANGLADESH ER 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -659 -574 -613	
BANGLADESH 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -659 -574 -613	14.71
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -176 0 -157	-14.71
	-14.71 -3.76