



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

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 27th 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 26.07.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-जुलाई-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 26th July 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-Jul-2023

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)	69690	56364	41894	27838	3351	199137
Peak Shortage (MW)	60	0	0	137	30	227
Energy Met (MU)	1532	1296	931	636	67	4463
Hydro Gen (MU)	408	63	88	139	32	730
Wind Gen (MU)	6	116	251	-	-	373
Solar Gen (MU)*	94.58	47.96	55.48	1.92	0.90	201
Energy Shortage (MU)	0.69	0.00	0.00	0.46	0.30	1.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71285	58056	43439	29458	3421	200402
Time Of Maximum Demand Met	00:00	19:35	09:51	23:07	19:21	19:38

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	0.047	0.00	0.00	1.59	1.59	71.55	26.86

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)	
NR	Punjab	12781	0	270.5	156.7	-1.8	106	0.00	
	Haryana	9938	0	203.2	155.9	-4.5	229	0.00	
	Rajasthan	12542	0	276.4	114.5	-3.0	307	0.00	
	Delhi	6671	0	128.0	115.3	-2.5	202	0.00	
	UP	26315	0	513.2	271.6	-3.2	543	0.00	
	Uttarakhand	2129	0	46.7	28.2	0.3	448	0.25	
	HP	1643	22	34.1	1.3	-1.4	59	0.24	
	J&K(UT) & Ladakh(UT)	2456	80	50.0	26.5	-2.3	119	0.20	
	Chandigarh	319	0	6.4	6.7	-0.3	11	0.00	
	Railways_NR ISTS	173	0	3.6	3.6	0.0	18	0.00	
WR	Chhattisgarh	5135	0	116.5	64.2	-0.4	366	0.00	
	Gujarat	16028	0	359.8	154.2	-3.0	589	0.00	
	MP	11851	0	263.3	149.9	-4.9	320	0.00	
	Maharashtra	21935	0	481.9	179.5	-3.4	418	0.00	
	Goa	599	0	11.5	11.9	-0.7	31	0.00	
	DNHDDPDCL	1290	0	30.1	30.0	0.1	55	0.00	
	AMNSIL	930	0	20.5	10.7	0.2	287	0.00	
	BALCO	521	0	12.4	12.5	-0.1	65	0.00	
	SR	Andhra Pradesh	7902	0	170.5	27.0	0.2	862	0.00
		Telangana	8468	0	170.1	65.1	0.9	1437	0.00
Karnataka		8903	0	170.4	19.8	-0.6	684	0.00	
Kerala		3613	0	71.6	46.3	1.6	262	0.00	
Tamil Nadu		15901	0	339.2	132.2	-3.3	810	0.00	
Puducherry		441	0	9.5	9.2	-0.2	32	0.00	
ER	Bihar	7477	0	160.0	153.6	-0.5	234	0.05	
	DVC	3623	0	79.4	-36.0	0.5	245	0.00	
	Jharkhand	1693	0	39.3	33.5	1.1	155	0.41	
	Odisha	6895	0	136.9	46.9	-1.7	355	0.00	
	West Bengal	9886	0	218.9	100.1	-1.4	217	0.00	
	Sikkim	84	0	1.3	1.3	0.0	32	0.00	
	Railways_ER ISTS	16	0	0.1	0.1	0.0	13	0.00	
NER	Arunachal Pradesh	159	0	2.8	2.4	0.0	54	0.00	
	Assam	2307	0	45.4	37.4	0.6	186	0.00	
	Manipur	191	0	2.7	2.7	0.0	48	0.00	
	Meghalaya	327	0	5.4	1.1	-0.1	60	0.30	
	Mizoram	115	0	1.8	1.6	-0.2	7	0.00	
	Nagaland	151	0	2.9	2.6	-0.1	17	0.00	
	Tripura	321	0	6.4	5.9	0.2	43	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.8	6.7	-24.5	-18.0
Day Peak (MW)	1785.7	343.0	-1058.0	-791.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	336.6	-226.6	-51.7	-54.9	-3.4	0.0
Actual(MU)	310.9	-210.5	-51.9	-53.0	-1.0	-5.5
O/D/U/D(MU)	-25.7	16.1	-0.3	1.9	2.4	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2966	11806	5938	3360	271	24341	42
State Sector	7890	14198	8753	2390	171	33402	58
Total	10856	26004	14691	5750	442	57742	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	695	1317	514	614	13	3153	66
Lignite	28	10	53	0	0	91	2
Hydro	408	63	88	139	32	730	15
Nuclear	29	52	63	0	0	144	3
Gas, Naptha & Diesel	34	18	7	0	29	88	2
RES (Wind, Solar, Biomass & Others)	108	165	327	3	1	604	13
Total	1302	1624	1052	756	75	4809	100

Share of RES in total generation (%)	8.27	10.15	31.11	0.41	1.20	12.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.83	17.23	45.45	18.76	44.30	30.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192411	12:28	59
Non-Solar hr	200402	19:38	100

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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 27-Jul-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	107	0.0	2.7	-2.7
3	765 kV	GAYA-VARANASI	2	461	419	0.0	2.3	-2.3
4	765 kV	SASARAM-FATEHPUR	1	204	213	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	627	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	0	98	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	84	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	758	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	2	0	398	0.0	7.2	-7.2
10	400 kV	NAUBATPUR-BALIA	2	0	401	0.0	6.8	-6.8
11	400 kV	BIHARSHARIFF-BALIA	2	143	174	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	516	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	193	171	0.0	1.4	-1.4
14	220 kV	SAHUPURI-KARAMNANA	1	22	115	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	47	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	72.2	-71.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1515	670	16.0	0.0	16.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1673	0	25.9	0.0	25.9
3	765 kV	JHARSUGUDA-DURG	2	156	269	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	531	0.0	5.9	-5.9
5	400 kV	RANCHI-SIPAT	2	383	81	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	78	4	0.0	0.2	-0.2
ER-WR						46.6	10.4	36.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	688	0	16.7	0.0	16.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	36.0	-36.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2513	0.0	34.4	-34.4
4	400 kV	TALCHER-I/C	2	698	166	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						16.7	70.4	-53.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	220	0.0	2.4	-2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	181	329	0.0	4.6	-4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	86	0.0	1.3	-1.3
ER-NER						0.0	8.4	-8.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
NER-NR						0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4560	0.0	65.5	-65.5
2	HVDC	VINDHYACHAL B/B	-	437	486	0.0	4.5	-4.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	973	0.0	9.0	-9.0
4	765 kV	GWALIOR-AGRA	2	0	2527	0.0	33.8	-33.8
5	765 kV	GWALIOR-PHAGI	2	0	1534	0.0	24.9	-24.9
6	765 kV	JABALPUR-ORAI	2	0	1226	0.0	34.9	-34.9
7	765 kV	GWALIOR-ORAI	1	682	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1045	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	871	1401	4.0	10.8	-6.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3382	0.0	57.2	-57.2
11	400 kV	ZERDA-KANKROLI	1	164	244	0.7	1.8	-1.1
12	400 kV	ZERDA -BHINMAL	1	344	365	2.0	2.3	-0.3
13	400 kV	VINDHYACHAL -RIHAND	1	977	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	56	711	0.1	7.0	-7.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	0	0	0.0	0.0	0.0
18	220 kV	MALANPUR-AURAIYA	1	0	0	0.0	0.0	0.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						40.7	274.7	-234.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	1001	0	16.4	0.0	16.4
2	HVDC	RAIGARH-PUGALUR	2	671	604	0.0	0.8	-0.8
3	765 kV	SOLAPUR-RAICHUR	2	2414	579	23.8	1.2	22.7
4	765 kV	WARDHA-NIZAMABAD	2	965	1842	4.4	16.2	-11.8
5	400 kV	KOLHAPUR-KUDGI	2	1608	0	31.8	0.0	31.8
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	91	1.5	0.0	1.5
WR-SR						77.9	18.2	59.8

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	598	566	572	13.72
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1016	984	1002	24.05
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	204	115	158	3.78
	NER	132kV GELEPHU-SALAKATI	-27	-19	-24	-0.56
	NER	132kV MOTANGA-RANGIA	-62	-38	-51	-1.22
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.18
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	396	166	288	6.92
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-777	-897	-21.53
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-791	-705	-750	-17.99
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-137	0	-123	-2.96