



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: 24<sup>th</sup> August 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 23.08.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अगस्त-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 23<sup>rd</sup> August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 24-Aug-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)	67842	60287	50706	25520	3049	207404
Peak Shortage (MW)	75	227	0	0	223	525
Energy Met (MU)	1558	1440	1269	570	61	4898
Hydro Gen (MU)	392	109	80	137	39	758
Wind Gen (MU)	85	212	116	-	-	414
Solar Gen (MU)*	124.87	41.47	115.17	2.22	0.79	285
Energy Shortage (MU)	2.08	1.70	0.00	0.64	1.14	5.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68960	64638	61084	26488	3294	216520
Time Of Maximum Demand Met	22:17	10:12	10:25	00:00	18:41	11:45

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	0.035	0.00	0.00	1.75	1.75	67.64	30.61

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	14942	0	331.5	196.1	-0.9	282	0.00
	Haryana	10446	0	232.4	177.7	-3.9	155	1.00
	Rajasthan	14928	0	331.4	79.4	-7.6	197	0.00
	Delhi	6331	0	129.7	105.6	-2.9	103	0.00
	UP	20689	0	397.7	186.8	-3.6	152	0.00
	Uttarakhand	1987	0	43.4	19.1	0.2	151	0.15
	HP	1536	0	31.3	-1.4	0.6	258	0.02
	J&K(UT) & Ladakh(UT)	2522	0	51.6	26.5	0.4	310	0.91
	Chandigarh	281	0	6.0	7.0	-1.0	0	0.00
Railways_NR ISTS	157	0	3.2	3.3	-0.1	55	0.00	
WR	Chhattisgarh	5377	0	123.0	67.2	-2.2	262	0.00
	Gujarat	21189	0	445.3	147.9	0.4	644	0.00
	MP	11367	0	241.3	100.9	-3.7	622	0.00
	Maharashtra	24824	658	554.3	210.8	-1.5	926	1.70
	Goa	662	0	13.8	13.5	-0.1	93	0.00
	DNHDDPDCL	1327	0	30.5	30.7	-0.2	35	0.00
	AMNSIL	882	0	19.2	7.3	-0.3	225	0.00
	BALCO	522	0	12.4	12.4	0.0	12	0.00
SR	Andhra Pradesh	11636	0	236.5	96.4	2.8	440	0.00
	Telangana	13060	0	258.9	138.7	-1.6	584	0.00
	Karnataka	16272	0	291.0	108.5	3.3	803	0.00
	Kerala	4366	0	89.3	74.3	2.0	326	0.00
	Tamil Nadu	17549	0	383.3	192.1	-2.1	742	0.00
	Puducherry	474	0	10.5	10.0	-0.2	34	0.00
ER	Bihar	6663	0	136.5	133.3	-1.7	349	0.42
	DVC	3361	0	74.1	-36.7	0.0	289	0.00
	Jharkhand	1713	0	38.7	33.8	-0.4	279	0.22
	Odisha	5042	0	111.4	47.1	-1.2	294	0.00
	West Bengal	9742	0	208.4	92.8	-2.0	332	0.00
	Sikkim	82	0	1.3	1.2	0.1	21	0.00
	Railways_ER ISTS	18	0	0.1	0.1	0.0	7	0.00
NER	Arunachal Pradesh	154	0	2.8	2.7	-0.4	9	0.00
	Assam	2203	70	39.9	31.5	1.1	232	0.71
	Manipur	186	0	2.6	2.7	-0.1	16	0.00
	Meghalaya	308	13	5.3	1.0	-0.2	48	0.43
	Mizoram	120	0	1.7	1.5	-0.4	16	0.00
	Nagaland	162	0	2.9	2.6	0.1	16	0.00
Tripura	306	0	5.6	6.0	0.2	49	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.1	10.2	-24.6	-31.7
Day Peak (MW)	1997.0	433.0	-1084.0	-1429.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	225.7	-328.8	228.1	-109.5	-15.5	0.0
Actual(MU)	183.5	-327.6	261.6	-115.4	-13.8	-11.7
O/D/U/D(MU)	-42.2	1.2	33.5	-5.8	1.7	-11.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2313	10960	5718	2860	255	22105	45
State Sector	5025	12479	5928	3850	195	27476	55
Total	7338	23439	11646	6710	449	49581	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1403	645	605	15	3414	65
Lignite	26	10	46	0	0	82	2
Hydro	392	109	80	137	39	758	14
Nuclear	29	51	47	0	0	127	2
Gas, Naptha & Diesel	52	55	3	0	27	137	3
RES (Wind, Solar, Biomass & Others)	216	256	260	4	1	737	14
Total	1463	1885	1080	746	82	5254	100

Share of RES in total generation (%)	14.79	13.60	24.04	0.47	0.97	14.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.58	22.09	35.79	18.88	49.34	30.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.080

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216520	11:45	112
Non-Solar hr	211641	19:24	816

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: 24-Aug-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	801	0.0	20.1	-20.1
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	537	276	0.0	0.6	-0.6
4	765 kV	SASARAM-FATEHPUR	1	83	226	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	46	402	0.0	3.9	-3.9
6	400 kV	PUSAULI-VARANASI	1	0	111	0.0	1.7	-1.7
7	400 kV	PUSAULI -ALLAHABAD	1	10	82	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	614	0.0	10.6	-10.6
9	400 kV	PATNA-BALIA	2	0	499	0.0	9.1	-9.1
10	400 kV	NAUBATPUR-BALIA	2	0	517	0.0	9.2	-9.2
11	400 kV	BIHARSHARIFF-BALIA	2	221	119	0.0	0.4	-0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	399	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	247	119	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	100	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	39	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.5</b>	<b>70.4</b>	<b>-69.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2253	0	34.4	0.0	34.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	983	785	3.8	0.0	3.8
3	765 kV	JHARSUGUDA-DURG	2	133	192	0.0	0.7	-0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	79	413	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	168	240	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	189	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	76	9	0.8	0.0	0.8
<b>ER-WR</b>						<b>40.4</b>	<b>8.2</b>	<b>32.2</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	655	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	46.7	-46.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2840	0.0	47.0	-47.0
4	400 kV	TALCHER-I/C	2	0	705	0.0	14.9	-14.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>108.6</b>	<b>-108.6</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	120	295	0.7	2.1	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	324	363	0.0	0.2	-0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	40	95	0.0	0.5	-0.5
<b>ER-NER</b>						<b>0.7</b>	<b>2.8</b>	<b>-2.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
<b>NER-NR</b>						<b>0.0</b>	<b>16.9</b>	<b>-16.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1301	0.0	26.2	-26.2
2	HVDC	VINDHYACHAL B/B	-	442	0	8.6	0.0	8.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	32.1	-32.1
4	765 kV	GWALIOR-AGRA	2	288	2010	0.4	17.1	-16.7
5	765 kV	GWALIOR-PHAGI	2	724	892	3.3	9.5	-6.2
6	765 kV	JABALPUR-ORAI	2	257	732	0.0	9.5	-9.5
7	765 kV	GWALIOR-ORAI	1	630	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	854	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITORGARH	2	691	1113	3.7	8.4	-4.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3013	0.0	42.3	-42.3
11	400 kV	ZERDA-KANKROLI	1	276	107	2.2	0.4	1.8
12	400 kV	ZERDA -BHINMAL	1	639	39	7.1	0.0	7.1
13	400 kV	VINDHYACHAL -RIHAND	1	947	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	504	368	3.6	1.9	1.7
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	148	0	2.4	0.0	2.4
18	220 kV	MALANPUR-AURAIYA	1	116	0	1.7	0.0	1.7
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
<b>WR-NR</b>						<b>64.2</b>	<b>166.1</b>	<b>-102.0</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6031	0.0	108.0	-108.0
3	765 kV	SOLAPUR-RAICHUR	2	503	2488	0.5	28.6	-28.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3051	0.0	52.5	-52.5
5	400 kV	KOLHAPUR-KUDGI	2	1228	0	16.9	0.0	16.9
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	1	120	2.3	0.0	2.3
<b>WR-SR</b>						<b>19.7</b>	<b>213.0</b>	<b>-193.4</b>

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)	746	523	689	16.54	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1028	973	980	23.52	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	113	16	78	1.86	
	NER	132kV GELEPHU-SALAKATI	22	0	5	0.11	
	NER	132kV MOTANGA-RANGIA	62	24	43	1.02	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-53	0	20	0.48	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	486	362	404	9.70	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-807	-897	-21.54	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1429	-1247	-1319	-31.65	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-147	0	-129	-3.10	

