



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: 09th 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 08.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	74085	57684	45917	25664	3139	206489
Peak Shortage (MW)	708	224	3580	810	56	5378
Energy Met (MU)	1650	1350	1224	529	62	4815
Hydro Gen (MU)	426	107	119	140	36	829
Wind Gen (MU)	73	235	158	-	-	466
Solar Gen (MU)*	125.05	40.06	103.33	2.07	0.92	271
Energy Shortage (MU)	5.87	0.68	18.92	4.55	0.41	30.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74123	60042	59440	26093	3257	215457
Time Of Maximum Demand Met	22:53	10:26	11:59	20:31	19:13	14:52

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	0.078	1.04	5.23	7.34	13.61	75.22	11.17

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	14582	0	321.9	191.9	-0.6	184	0.00
	Haryana	11781	0	249.0	191.8	-0.8	124	1.09
	Rajasthan	14626	0	316.7	77.3	-5.2	129	0.00
	Delhi	6309	0	129.5	116.0	-1.7	122	0.00
	UP	24794	360	488.5	225.2	-1.0	352	3.20
	Uttarakhand	2046	0	45.7	22.4	-1.0	26	0.69
	HP	1659	0	35.6	0.0	-0.4	110	0.08
	J&K(UT) & Ladakh(UT)	2483	0	52.2	25.3	1.0	160	0.81
	Chandigarh	361	0	7.1	7.5	-0.3	29	0.00
Railways_NR ISTS	169	0	3.2	3.2	0.1	75	0.00	
WR	Chhattisgarh	4770	0	108.2	50.1	-1.3	178	0.00
	Gujarat	17834	0	394.1	139.8	1.1	953	0.00
	MP	11033	0	236.1	88.3	-3.4	436	0.00
	Maharashtra	24154	0	536.7	186.4	0.7	712	0.68
	Goa	646	0	13.7	13.3	0.0	37	0.00
	DNHDDPDCL	1299	0	30.1	30.0	0.1	104	0.00
	AMNSIL	858	0	19.1	9.2	0.1	280	0.00
	BALCO	520	0	12.4	12.5	-0.1	518	0.00
	SR	Andhra Pradesh	12508	0	236.8	97.6	6.4	1665
Telangana		13167	0	259.7	151.6	0.4	929	0.00
Karnataka		13775	0	242.6	68.9	5.0	1110	3.30
Kerala		4075	0	84.2	64.5	1.4	498	0.00
Tamil Nadu		17552	0	389.7	191.2	7.6	2189	6.81
Puducherry		479	0	10.7	10.2	-0.2	38	0.00
ER	Bihar	5921	0	121.6	117.0	0.0	351	2.71
	DVC	3340	0	70.0	-39.5	-3.8	199	0.00
	Jharkhand	1546	0	35.1	29.1	1.6	161	1.84
	Odisha	6696	0	119.2	43.4	-1.1	333	0.00
	West Bengal	8384	0	182.0	52.1	-1.9	249	0.00
	Sikkim	79	0	1.1	1.0	0.1	25	0.00
	Railways_ER ISTS	15	0	0.1	0.1	0.0	7	0.00
NER	Arunachal Pradesh	151	0	2.9	2.9	-0.5	9	0.00
	Assam	2185	0	42.2	34.3	0.0	158	0.04
	Manipur	158	0	2.3	2.5	-0.2	16	0.00
	Meghalaya	324	7	5.2	1.3	-0.1	44	0.37
	Mizoram	110	0	1.8	1.6	-0.1	10	0.00
	Nagaland	165	0	2.8	2.5	0.1	18	0.00
	Tripura	280	0	4.6	5.0	-0.3	28	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.2	11.0	-24.8	-28.7
Day Peak (MW)	1770.8	434.0	-1084.0	-1290.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	293.9	-340.3	210.5	-153.2	-10.8	0.0
Actual(MU)	254.3	-349.3	255.7	-155.7	-12.4	-7.5
O/D/U/D(MU)	-39.6	-8.9	45.2	-2.5	-1.7	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3016	14193	7058	4205	305	28776	46
State Sector	5765	15056	10131	2770	131	33853	54
Total	8780	29249	17189	6975	436	62628	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	744	1321	500	608	16	3188	62
Lignite	28	7	58	0	0	92	2
Hydro	426	107	119	140	36	829	16
Nuclear	29	50	69	0	0	149	3
Gas, Naptha & Diesel	22	28	6	0	29	85	2
RES (Wind, Solar, Biomass & Others)	205	277	289	3	1	775	15
Total	1455	1789	1041	752	82	5119	100

Share of RES in total generation (%)	14.09	15.46	27.80	0.44	1.12	15.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.40	24.27	45.86	19.12	45.01	34.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215457	14:52	419
Non-Solar hr	208129	19:30	4157

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: 09-Aug-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	12.6	-12.6
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	425	443	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	0	357	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	555	0.0	6.3	-6.3
6	400 kV	PUSAULI-VARANASI	1	40	40	0.0	0.0	0.0
7	400 kV	PUSAULI -ALLAHABAD	1	31	48	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	987	0.0	16.3	-16.3
9	400 kV	PATNA-BALIA	2	0	558	0.0	10.7	-10.7
10	400 kV	NAUBATPUR-BALIA	2	0	585	0.0	10.7	-10.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	363	0.0	5.2	-5.2
12	400 kV	MOTTHARI-GORAKHPUR	2	0	514	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	140	272	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	123	0.0	1.9	-1.9
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	48	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	85.4	-84.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1654	125	25.0	0.0	25.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	574	1077	0.0	3.3	-3.3
3	765 kV	JHARSUGUDA-DURG	2	48	343	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	168	306	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	149	280	0.0	0.3	-0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	158	0	1.7	0.0	1.7
ER-WR						26.7	9.1	17.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	703	0.0	12.9	-12.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	45.8	-45.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3205	0.0	50.5	-50.5
4	400 kV	TALCHER-I/C	2	0	1012	0.0	19.9	-19.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	109.2	-109.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	141	235	0.1	1.7	-1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	199	288	0.0	1.2	-1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	35	74	0.0	0.7	-0.7
ER-NER						0.1	3.6	-3.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3015	0.0	54.8	-54.8
2	HVDC	VINDHYACHAL B/B	-	438	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1908	0.0	34.0	-34.0
4	765 kV	GWALIOR-AGRA	2	333	2208	0.2	23.0	-22.8
5	765 kV	GWALIOR-PHAGI	2	798	983	3.4	10.4	-7.0
6	765 kV	JABALPUR-ORAI	2	103	839	0.0	15.1	-15.1
7	765 kV	GWALIOR-ORAI	1	624	0	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	926	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	704	1368	3.0	9.3	-6.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2796	0.0	40.3	-40.3
11	400 kV	ZERDA-KANKROLI	1	222	141	1.8	0.7	1.2
12	400 kV	ZERDA -BHINMAL	1	656	24	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	533	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	347	473	2.5	3.2	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	144	0	2.1	0.0	2.1
18	220 kV	MALANPUR-AURAIYA	1	113	0	1.0	0.0	1.0
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						53.6	210.3	-156.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	17.5	-17.5
2	HVDC	RAIGARH-PUGALUR	2	0	6029	0.0	112.0	-112.0
3	765 kV	SOLAPUR-RAICHUR	2	1096	2280	0.8	15.5	-14.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3616	0.0	50.2	-50.2
5	400 kV	KOLHAPUR-KUDGI	2	1158	0	17.4	0.0	17.4
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	119	2.3	0.0	2.3
WR-SR						20.4	195.3	-174.9

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)	634	568	599	14.39	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1049	832	958	23.00	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	149	69	107	2.56	
	NER	132kV GELEPHU-SALAKATI	-25	-9	-20	-0.47	
	NER	132kV MOTANGA-RANGIA	-62	-28	-51	-1.23	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-37	0	25	0.60	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	471	351	434	10.42	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-797	-898	-21.55	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1290	-1081	-1196	-28.70	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-134	-3.22	

