



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: 04th 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., डोंगतिह, 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 03.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	74152	51272	48882	25738	3360	203404
Peak Shortage (MW)	190	0	0	279	14	483
Energy Met (MU)	1640	1197	1147	558	65	4607
Hydro Gen (MU)	439	87	79	138	33	776
Wind Gen (MU)	44	252	275	-	-	571
Solar Gen (MU)*	115.04	28.06	101.05	1.49	0.81	246
Energy Shortage (MU)	1.10	0.00	0.00	1.00	0.32	2.42
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75245	53886	54431	27865	3398	205393
Time Of Maximum Demand Met	22:40	19:25	10:12	21:18	19:51	19:54

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	0.025	0.00	0.01	5.13	5.14	84.96	9.91

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	14859	0	320.3	192.8	-0.5	152	0.00
	Haryana	11241	0	237.3	184.5	0.2	214	0.00
	Rajasthan	13013	0	290.1	81.2	-3.3	374	0.00
	Delhi	6835	0	137.7	123.5	-1.1	188	0.00
	UP	25351	0	507.2	248.1	-2.4	455	0.00
	Uttarakhand	2206	0	47.8	21.2	0.3	164	0.08
	HP	1675	0	36.1	0.6	-0.2	80	0.00
	J&K(UT) & Ladakh(UT)	2531	190	51.9	27.0	-0.9	139	1.02
	Chandigarh	405	0	7.8	7.8	0.0	28	0.00
Railways_NR ISTS	166	0	3.4	3.6	-0.1	8	0.00	
WR	Chhattisgarh	3571	0	75.2	18.5	-4.1	265	0.00
	Gujarat	16280	0	351.1	158.8	-2.6	716	0.00
	MP	9854	0	207.0	71.8	-4.0	453	0.00
	Maharashtra	22722	0	489.3	174.8	-3.9	765	0.00
	Goa	622	0	12.8	12.4	0.1	51	0.00
	DNHDDPDCL	1295	0	29.9	29.7	0.2	87	0.00
	AMNSIL	838	0	18.8	8.7	0.3	263	0.00
	BALCO	522	0	12.4	12.5	-0.1	517	0.00
SR	Andhra Pradesh	10531	0	217.4	49.1	-1.1	1015	0.00
	Telangana	11721	0	235.1	126.1	0.5	516	0.00
	Karnataka	12028	0	212.9	52.1	-0.8	584	0.00
	Kerala	4076	0	83.1	67.6	1.4	309	0.00
	Tamil Nadu	17340	0	388.4	167.8	-3.7	367	0.00
	Puducherry	488	0	10.6	9.9	-0.1	44	0.00
ER	Bihar	6969	0	134.0	129.1	-3.5	254	0.65
	DVC	3318	0	71.7	-34.7	0.5	261	0.00
	Jharkhand	1632	115	34.7	28.3	1.3	134	0.35
	Odisha	6688	0	115.4	56.6	-2.0	397	0.00
	West Bengal	9505	0	201.1	71.5	-0.6	336	0.00
	Sikkim	81	0	1.1	1.1	0.0	20	0.00
	Railways_ER ISTS	24	0	0.2	0.3	-0.1	11	0.00
NER	Arunachal Pradesh	166	0	2.9	3.0	-0.5	24	0.00
	Assam	2263	0	43.9	36.5	0.3	140	0.00
	Manipur	184	0	2.6	2.7	-0.1	24	0.00
	Meghalaya	317	0	5.5	1.6	-0.1	40	0.32
	Mizoram	114	0	1.8	1.6	-0.1	6	0.00
	Nagaland	155	0	2.9	2.5	-0.1	23	0.00
	Tripura	279	0	5.1	5.0	-0.2	39	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.7	7.4	-25.0	-29.1
Day Peak (MW)	1991.1	366.0	-1076.0	-1247.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	334.7	-330.9	88.9	-88.6	-4.0	0.0
Actual(MU)	317.9	-325.9	102.9	-93.7	-4.1	-2.8
O/D/U/D(MU)	-16.8	5.1	14.1	-5.1	-0.1	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3639	12791	5248	2885	271	24834	42
State Sector	4690	16331	9293	3490	189	33992	58
Total	8329	29121	14541	6375	460	58826	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1178	511	575	13	3004	61
Lignite	27	11	55	0	0	92	2
Hydro	439	87	79	138	33	776	16
Nuclear	29	50	65	0	0	144	3
Gas, Naptha & Diesel	24	19	6	0	29	78	2
RES (Wind, Solar, Biomass & Others)	166	281	400	3	1	850	17
Total	1412	1625	1116	716	76	4944	100

Share of RES in total generation (%)	11.74	17.27	35.86	0.35	1.07	17.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.90	25.70	48.76	19.62	45.18	35.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
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	203162	14:43	0
Non-Solar hr	205393	19:54	857

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: 04-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	12.5	-12.5
2	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	318	447	0.0	3.3	-3.3
4	765 kV	SASARAM-FATEHPUR	1	0	400	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	633	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	39	13	0.3	0.0	0.3
7	400 kV	PUSAULI -ALLAHABAD	1	5	48	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	878	0.0	15.3	-15.3
9	400 kV	PATNA-BALIA	2	0	609	0.0	10.8	-10.8
10	400 kV	NAUBATPUR-BALIA	2	0	599	0.0	8.9	-8.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	291	0.0	4.5	-4.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	505	0.0	9.2	-9.2
13	400 kV	BIHARSHARIFF-VARANASI	2	73	261	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	129	0.0	1.8	-1.8
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	52	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.0	84.9	-83.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1564	0	17.5	0.0	17.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1044	980	8.3	0.0	8.3
3	765 kV	JHARSUGUDA-DURG	2	38	370	0.0	3.1	-3.1
4	400 kV	JHARSUGUDA-RAIGARH	4	502	0	7.3	0.0	7.3
5	400 kV	RANCHI-SIPAT	2	277	210	2.6	0.0	2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	188	0	1.9	0.0	1.9
ER-WR						37.6	3.2	34.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	639	0	10.1	0.0	10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2023	0.0	37.9	-37.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2786	0.0	48.7	-48.7
4	400 kV	TALCHER-I/C	2	965	1009	2.4	0.0	2.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						10.1	86.5	-76.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	130	208	0.0	2.2	-2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	211	298	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	26	74	0.0	0.9	-0.9
ER-NER						0.0	6.4	-6.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	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	4035	0.0	68.2	-68.2
2	HVDC	VINDHYACHAL B/B	-	101	0	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	13.7	-13.7
4	765 kV	GWALIOR-AGRA	2	204	2661	0.0	37.1	-37.1
5	765 kV	GWALIOR-PHAGI	2	292	1381	0.0	14.5	-14.5
6	765 kV	JABALPUR-ORAI	2	40	982	0.0	25.9	-25.9
7	765 kV	GWALIOR-ORAI	1	771	0	13.6	0.0	13.6
8	765 kV	SATNA-ORAI	1	0	933	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	472	1269	0.0	14.5	-14.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3470	0.0	58.6	-58.6
11	400 kV	ZERDA-KANKROLI	1	158	169	1.0	0.0	1.0
12	400 kV	ZERDA-BHINMAL	1	387	236	0.8	0.0	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	162	588	0.0	5.2	-5.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	131	39	1.0	0.1	0.8
18	220 kV	MALANPUR-AURAIYA	1	98	44	0.5	0.2	0.4
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						37.9	261.1	-223.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	992	303	9.0	4.2	4.7
2	HVDC	RAIGARH-PUGALUR	2	0	4005	0.0	52.2	-52.2
3	765 kV	SOLAPUR-RAICHUR	2	1201	1329	0.0	4.2	-4.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2677	0.0	43.8	-43.8
5	400 kV	KOLHAPUR-KUDGI	2	1493	0	25.3	0.0	25.3
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	112	2.1	0.0	2.1
WR-SR						36.3	104.4	-68.1

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)	618	572	606	14.55	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1046	981	995	23.88	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	196	43	112	2.69	
	NER	132kV GELEPHU-SALAKATI	28	16	23	0.56	
	NER	132kV MOTANGA-RANGIA	54	24	44	1.06	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-47	0	2	0.04	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	413	160	309	7.42	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-912	-910	-911	-21.85	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1247	-1172	-1214	-29.13	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-129	-3.10	

