



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: 13<sup>th</sup> June 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 12.06.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-जून-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 12<sup>th</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-Jun-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)	69843	62024	46951	24446	3179	206443
Peak Shortage (MW)	50	0	0	319	16	385
Energy Met (MU)	1587	1432	1166	576	56	4817
Hydro Gen (MU)	298	26	56	78	26	484
Wind Gen (MU)	43	214	193	-	-	450
Solar Gen (MU)*	137.80	60.15	124.77	2.98	0.73	326
Energy Shortage (MU)	3.85	0.00	0.00	2.34	1.33	7.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73064	65173	54744	27520	3220	218673
Time Of Maximum Demand Met	22:34	15:23	14:59	12:15	19:21	14:50

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	0.058	0.00	0.00	1.24	1.24	65.34	33.42

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	9946	0	207.1	111.8	-1.0	108	0.00
	Haryana	10373	625	212.0	156.0	-0.8	336	1.47
	Rajasthan	15664	0	325.1	95.3	-2.0	355	0.00
	Delhi	6782	0	135.2	122.1	-1.9	245	0.00
	UP	26992	0	554.8	280.0	-0.7	550	1.24
	Uttarakhand	2424	0	52.6	25.6	-1.1	56	0.00
	HP	1510	0	30.6	-0.1	0.1	143	0.00
	J&K(UT) & Ladakh(UT)	2847	110	58.8	25.9	0.5	137	1.14
	Chandigarh	341	0	6.6	6.7	-0.1	28	0.00
Railways_NR ISTS	178	0	3.9	3.4	0.6	45	0.00	
WR	Chhattisgarh	4888	0	112.4	53.7	-0.4	205	0.00
	Gujarat	18967	0	374.1	143.8	-1.9	1060	0.00
	MP	11671	0	261.7	143.6	-3.1	355	0.00
	Maharashtra	26977	0	610.0	206.8	3.8	1262	0.00
	Goa	736	0	14.3	14.9	-0.8	48	0.00
	DNHDDPDCL	1264	0	29.0	29.2	-0.2	54	0.00
	AMNSIL	821	0	18.0	6.8	-0.1	281	0.00
	BALCO	517	0	12.3	12.5	-0.2	6	0.00
	SR	Andhra Pradesh	12451	0	251.7	85.5	0.1	699
Telangana		10218	0	205.2	75.1	1.3	549	0.00
Karnataka		12172	0	245.2	77.1	2.5	864	0.00
Kerala		3767	0	77.2	58.1	1.9	424	0.00
Tamil Nadu		17758	0	376.0	159.2	-1.2	717	0.00
Puducherry		476	0	10.5	10.2	-0.3	56	0.00
ER	Bihar	6527	319	133.8	124.1	-1.3	283	2.28
	DVC	3495	0	76.9	-47.2	0.3	373	0.00
	Jharkhand	1802	0	37.4	35.8	-3.3	146	0.05
	Odisha	6854	0	122.0	59.0	-2.8	320	0.00
	West Bengal	10648	0	204.4	85.3	-3.3	407	0.00
	Sikkim	99	0	1.4	1.4	0.0	42	0.00
	Railways_ER ISTS	16	0	0.2	0.3	0.0	5	0.00
NER	Arunachal Pradesh	158	0	2.7	2.7	-0.2	43	0.00
	Assam	2120	0	37.1	30.5	0.3	149	0.00
	Manipur	162	0	2.3	2.3	0.0	22	0.00
	Meghalaya	337	16	5.1	1.4	-0.2	39	1.33
	Mizoram	115	0	1.8	1.8	-0.3	9	0.00
	Nagaland	151	0	2.6	2.4	0.0	22	0.00
	Tripura	259	0	4.9	4.6	0.0	69	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	7.8	-4.0	-24.9	-25.5
Day Peak (MW)	476.6	-423.1	-1088.0	-1172.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	328.3	-306.9	58.9	-80.4	0.0	0.0
Actual(MU)	309.7	-314.5	90.7	-90.4	-0.4	-5.0
O/D/U/D(MU)	-18.6	-7.6	31.8	-10.1	-0.5	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1875	6262	5428	1455	818	15837	39
State Sector	5800	10038	6398	2000	241	24477	61
Total	7674	16300	11826	3455	1059	40314	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	789	1486	636	666	15	3591	69
Lignite	25	19	55	0	0	100	2
Hydro	298	26	56	78	26	484	9
Nuclear	29	32	46	0	0	106	2
Gas, Naptha & Diesel	35	43	7	0	23	108	2
RES (Wind, Solar, Biomass & Others)	189	275	347	4	1	816	16
Total	1365	1882	1147	747	64	5205	100

Share of RES in total generation (%)	13.82	14.63	30.26	0.51	1.14	15.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.78	17.70	39.14	10.90	41.71	27.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.063

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218673	14:50	178
Non-Solar hr	213534	22:45	1982

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: 13-Jun-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	475	608	0.0	4.0	-4.0
4	765 kV	SASARAM-FATEHPUR	1	121	431	0.0	5.3	-5.3
5	765 kV	GAYA-BALIA	1	0	804	0.0	14.1	-14.1
6	400 kV	PUSAULI-VARANASI	1	0	107	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1033	0.0	15.4	-15.4
9	400 kV	PATNA-BALIA	2	0	592	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	0	633	0.0	9.1	-9.1
11	400 kV	BIHARSHARIFF-BALIA	2	51	489	0.0	6.6	-6.6
12	400 kV	MOTTHARI-GORAKHPUR	2	0	547	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	160	330	0.0	3.7	-3.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	201	0.0	4.0	-4.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	65	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>0.8</b>	<b>86.4</b>	<b>-85.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1316	104	15.7	0.0	15.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1800	172	23.2	0.0	23.2
3	765 kV	JHARSUGUDA-DURG	2	0	673	0.0	8.6	-8.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	491	0.0	7.6	-7.6
5	400 kV	RANCHI-SIPAT	2	350	108	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	68	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	147	0	2.1	0.0	2.1
<b>ER-WR</b>						<b>44.1</b>	<b>18.2</b>	<b>25.9</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	602	0	8.2	0.0	8.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	996	0.0	22.0	-22.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3428	0.0	58.2	-58.2
4	400 kV	TALCHER-I/C	2	910	0	10.4	0.0	10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>8.2</b>	<b>80.2</b>	<b>-72.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	313	95	2.2	0.3	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	457	139	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	89	80	0.4	0.0	0.4
<b>ER-NER</b>						<b>5.7</b>	<b>0.3</b>	<b>5.4</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	186	0	3.7	0.0	3.7
<b>NER-NR</b>						<b>3.7</b>	<b>0.0</b>	<b>3.7</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5039	0.0	70.6	-70.6
2	HVDC	VINDHYACHAL B/B	-	47	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	298	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	0	2112	0.0	40.3	-40.3
5	765 kV	GWALIOR-PHAGI	2	446	1116	0.9	13.9	-13.0
6	765 kV	JABALPUR-ORAI	2	0	1044	0.0	38.1	-38.1
7	765 kV	GWALIOR-ORAI	1	649	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1036	0.0	22.1	-22.1
9	765 kV	BANASKANTHA-CHITORGARH	2	444	1260	0.8	8.4	-7.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3406	0.0	66.1	-66.1
11	400 kV	ZERDA-KANKROLI	1	100	208	0.4	1.1	-0.7
12	400 kV	ZERDA -BHINMAL	1	210	258	2.3	0.8	1.5
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	222	353	0.9	3.1	-2.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	88	1	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	59	15	0.3	0.1	0.3
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>39.3</b>	<b>274.6</b>	<b>-235.3</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	992	304	6.0	5.3	0.7
2	HVDC	RAIGARH-PUGALUR	2	0	3009	0.0	32.2	-32.2
3	765 kV	SOLAPUR-RAICHUR	2	1344	1924	4.7	9.9	-5.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2897	0.0	41.4	-41.4
5	400 kV	KOLHAPUR-KUDGI	2	1329	0	22.6	0.0	22.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	132	2.3	0.0	2.3
<b>WR-SR</b>						<b>35.6</b>	<b>88.8</b>	<b>-53.2</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)	335	198	248	5.95	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	180	111	132	3.18	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-137	-68	-100	-2.40	
	NER	132kV GELEPHU-SALAKATI	8	-4	1	0.03	
	NER	132kV MOTANGA-RANGIA	52	29	41	0.99	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-52	-1.25	
	ER	NEPAL IMPORT (FROM BIHAR)	-53	-3	-17	-0.41	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-294	0	-98	-2.34	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-782	-897	-21.52	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1172	-969	-1061	-25.46	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-139	-3.34	