



National Load Despatch Centre

राष्ट्रीय भार प्रेषण केंद्र

GRID CONTROLLER OF INDIA LIMITED

ग्रिड 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: 11<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 10.06.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 10-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 10<sup>th</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-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)	63674	61067	46829	25305	3017	199892
Peak Shortage (MW)	349	0	0	237	17	603
Energy Met (MU)	1526	1513	1152	600	58	4848
Hydro Gen (MU)	263	24	62	66	13	416
Wind Gen (MU)	60	157	222	-----	-	439
Solar Gen (MU)*	131.55	66.71	124.85	2.96	0.84	327
Energy Shortage (MU)	5.14	0.08	0.00	2.17	1.18	8.57
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68793	68872	53217	27001	3014	219301
Time Of Maximum Demand Met	00:00	15:32	14:59	13:14	20:01	15:00

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	0.044	0.00	0.00	4.26	4.26	73.51	22.23

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	10697	0	204.2	98.4	-3.8	136	0.00
	Haryana	9486	0	199.6	137.1	-7.6	0	0.00
	Rajasthan	14578	0	309.3	65.6	-2.6	299	0.00
	Delhi	6285	0	126.2	116.0	-2.5	64	0.00
	UP	26210	0	542.4	267.4	-1.1	433	1.91
	Uttarakhand	2408	0	52.9	28.3	-0.8	153	0.07
	HP	1557	37	31.7	3.1	-0.1	118	0.46
	J&K(UT) & Ladakh(UT)	2335	0	49.4	24.8	-0.3	187	2.70
	Chandigarh	313	0	6.2	6.2	0.0	32	0.00
Railways_NR ISTS	186	0	4.0	3.3	0.7	45	0.00	
WR	Chhattisgarh	4862	0	111.2	56.9	-1.1	217	0.00
	Gujarat	21464	0	455.5	208.9	-1.7	712	0.00
	MP	11578	0	257.6	136.2	0.0	294	0.00
	Maharashtra	27481	0	614.4	213.7	-1.0	764	0.08
	Goa	673	0	14.5	14.4	-0.4	125	0.00
	DNHDDPDCL	1268	0	29.8	30.0	-0.2	44	0.00
	AMNSIL	851	0	17.6	10.8	-0.2	250	0.00
	BALCO	520	0	12.4	12.4	0.0	150	0.00
SR	Andhra Pradesh	12165	0	244.6	57.3	0.5	1358	0.00
	Telangana	9975	0	197.1	78.1	-1.5	362	0.00
	Karnataka	12422	0	238.5	63.4	-3.9	864	0.00
	Kerala	3852	0	77.8	49.7	0.9	382	0.00
	Tamil Nadu	17840	0	382.7	165.4	-2.5	918	0.00
	Puducherry	487	0	11.0	10.4	-0.1	143	0.00
ER	Bihar	6717	0	146.0	135.7	-1.5	172	1.96
	DVC	3558	0	79.2	-49.2	0.8	312	0.00
	Jharkhand	1872	0	37.7	36.3	-3.5	215	0.21
	Odisha	6454	0	136.6	66.4	1.6	755	0.00
	West Bengal	9512	0	198.9	87.8	-2.6	370	0.00
	Sikkim	89	0	1.5	1.3	0.2	44	0.00
	Railways_ER ISTS	23	0	0.1	0.3	-0.2	5	0.00
NER	Arunachal Pradesh	163	0	2.9	2.5	0.4	58	0.00
	Assam	1979	0	38.6	31.9	-0.1	165	0.00
	Manipur	156	0	2.3	2.4	-0.1	21	0.00
	Meghalaya	327	17	4.9	2.6	-0.3	47	1.18
	Mizoram	109	0	1.6	1.7	-0.3	8	0.00
	Nagaland	162	0	2.8	2.5	-0.1	13	0.00
	Tripura	251	0	4.9	4.8	0.1	79	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.2	-4.7	-24.8	-25.5
Day Peak (MW)	386.0	-371.4	-1080.0	-1122.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	261.5	-229.5	19.2	-62.9	11.7	0.0
Actual(MU)	237.1	-228.1	35.6	-59.6	11.2	-3.7
O/D/U/D(MU)	-24.3	1.4	16.4	3.3	-0.5	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2309	9150	5978	930	818	19186	43
State Sector	5625	10648	5178	3470	286	25207	57
Total	7934	19798	11156	4400	1104	44392	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	819	1560	655	664	16	3714	71
Lignite	24	19	57	0	0	99	2
Hydro	263	24	62	70	13	431	8
Nuclear	29	32	45	0	0	106	2
Gas, Naptha & Diesel	45	60	6	0	23	135	2
RES (Wind, Solar, Biomass & Others)	199	225	365	4	1	793	15
Total	1379	1919	1190	738	53	5279	100

Share of RES in total generation (%)	14.44	11.85	30.67	0.55	1.57	15.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.61	14.76	39.65	9.42	26.26	25.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.007
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219301	15:00	418
Non-Solar hr	209559	0:00	768

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: **11-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	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	442	317	1.3	0.0	1.3
4	765 kV	SASARAM-FATEHPUR	1	168	143	0.0	0.3	-0.3
5	765 kV	GAYA-BALIA	1	0	771	0.0	13.5	-13.5
6	400 kV	PUSAULI-VARANASI	1	0	114	0.0	1.8	-1.8
7	400 kV	PUSAULI -ALLAHABAD	1	9	79	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	136	631	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	2	0	559	0.0	9.6	-9.6
10	400 kV	NAUBATPUR-BALIA	2	0	569	0.0	8.0	-8.0
11	400 kV	BIHARSHARIFF-BALIA	2	188	315	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	20	399	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFF-VARANASI	2	197	204	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	196	0.0	3.4	-3.4
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	66	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>2.1</b>	<b>57.7</b>	<b>-55.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1275	0	17.3	0.0	17.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1954	0	29.3	0.0	29.3
3	765 kV	JHARSUGUDA-DURG	2	91	581	0.0	5.1	-5.1
4	400 kV	JHARSUGUDA-RAIGARH	4	112	318	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	411	43	5.1	0.0	5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	213	0	3.5	0.0	3.5
<b>ER-WR</b>						<b>55.2</b>	<b>8.4</b>	<b>46.8</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	649	0.0	13.3	-13.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1090	0.0	24.4	-24.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2784	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	444	0	7.9	0.0	7.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>82.2</b>	<b>-82.2</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	55	198	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	106	289	0.0	1.1	-1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	43	51	0.0	0.2	-0.2
<b>ER-NER</b>						<b>0.0</b>	<b>2.4</b>	<b>-2.4</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	385	0	8.1	0.0	8.1
<b>NER-NR</b>						<b>8.1</b>	<b>0.0</b>	<b>8.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4029	0.0	88.6	-88.6
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	974	0.0	12.9	-12.9
4	765 kV	GWALIOR-AGRA	2	0	2299	0.0	34.5	-34.5
5	765 kV	GWALIOR-PHAGI	2	19	1123	0.0	9.5	-9.5
6	765 kV	JABALPUR-ORAI	2	0	1116	0.0	32.9	-32.9
7	765 kV	GWALIOR-ORAI	1	577	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	986	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1491	275	17.7	0.2	17.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3428	0.0	69.6	-69.6
11	400 kV	ZERDA-KANKROLI	1	325	43	4.1	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	602	0	9.3	0.0	9.3
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	303	399	1.6	1.4	0.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	96	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	69	3	6.3	0.0	6.3
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>79.6</b>	<b>271.1</b>	<b>-191.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	993	0	12.3	0.0	12.3
2	HVDC	RAIGARH-PUGALUR	2	2395	2001	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	1929	1158	16.7	3.6	13.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2517	0.0	32.7	-32.7
5	400 kV	KOLHAPUR-KUDGI	2	1612	0	28.3	0.0	28.3
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	1	114	1.5	0.0	1.5
<b>WR-SR</b>						<b>58.7</b>	<b>48.5</b>	<b>10.3</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)	243	75	126	3.02	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	189	99	125	3.00	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-121	-36	-68	-1.64	
	NER	132kV GELEPHU-SALAKATI	50	25	36	0.86	
	NER	132kV MOTANGA-RANGIA	-7	0	-2	-0.04	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-62	-1.48	
	ER	NEPAL IMPORT (FROM BIHAR)	-58	-9	-24	-0.58	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-239	0	-110	-2.65	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-794	-900	-21.60	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1123	-997	-1062	-25.48	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-132	-3.16	