



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: 2<sup>nd</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 01.06.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 1<sup>st</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	56004	60964	48237	26609	3307	195121
Peak Shortage (MW)	0	0	0	625	60	685
Energy Met (MU)	1170	1455	1160	607	66	4458
Hydro Gen (MU)	252	45	57	70	10	434
Wind Gen (MU)	18	173	123	-	-	313
Solar Gen (MU)*	113.80	56.32	119.72	2.98	1.18	294
Energy Shortage (MU)	0.10	1.30	0.00	6.26	1.39	9.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55724	67044	54171	28345	3399	199477
Time Of Maximum Demand Met	19:55	15:54	14:48	23:44	18:55	15:29

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	0.046	0.00	0.22	2.82	3.04	62.97	33.99

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	6309	0	133.7	52.2	-1.7	190	0.00
	Haryana	6719	0	141.6	96.3	-1.3	264	0.00
	Rajasthan	10070	0	216.3	38.8	-6.7	298	0.00
	Delhi	4298	0	88.6	86.4	-2.8	125	0.00
	UP	23584	0	457.0	205.5	0.7	532	0.00
	Uttarakhand	2154	0	45.6	21.2	-0.1	111	0.00
	HP	1426	0	26.7	-2.2	0.5	110	0.00
	J&K(UT) & Ladakh(UT)	2568	0	52.6	27.1	0.2	156	0.10
	Chandigarh	216	0	4.3	4.8	-0.6	1	0.00
Railways_NR ISTS	176	0	3.8	3.3	0.5	36	0.00	
WR	Chhattisgarh	4762	0	107.7	47.2	-1.8	126	0.00
	Gujarat	20154	0	435.1	211.2	-3.9	698	0.00
	MP	11633	0	253.4	139.7	-3.7	266	0.00
	Maharashtra	28075	816	587.7	234.5	0.7	1051	1.30
	Goa	694	0	14.4	15.6	-1.2	40	0.00
	DNHDDPDCL	1218	0	27.2	27.7	-0.5	52	0.00
	AMNSIL	799	0	17.2	7.4	0.2	256	0.00
	BALCO	519	0	12.4	12.5	-0.1	8	0.00
SR	Andhra Pradesh	11472	0	233.9	68.7	0.9	1084	0.00
	Telangana	9740	0	198.6	83.1	0.4	391	0.00
	Karnataka	12138	0	234.9	67.1	-2.8	742	0.00
	Kerala	4481	0	91.8	65.6	1.1	437	0.00
	Tamil Nadu	17527	0	389.4	187.1	-2.3	350	0.00
	Puducherry	505	0	11.2	11.0	-0.6	24	0.00
ER	Bihar	6306	520	133.0	125.6	-2.8	308	3.86
	DVC	3159	0	73.9	-38.0	0.3	204	0.00
	Jharkhand	1719	419	36.0	29.6	-2.0	195	2.40
	Odisha	5983	0	132.9	58.6	-1.8	320	0.00
	West Bengal	11348	0	228.9	118.3	-2.6	223	0.00
	Sikkim	99	0	2.0	1.5	0.4	40	0.00
	Railways_ER ISTS	27	0	0.2	0.3	-0.1	0	0.00
NER	Arunachal Pradesh	168	0	2.6	2.5	0.2	65	0.00
	Assam	2186	0	45.1	39.3	0.2	131	0.00
	Manipur	178	0	2.5	2.4	0.1	28	0.00
	Meghalaya	317	10	4.9	3.2	0.3	70	1.39
	Mizoram	118	0	1.9	1.8	-0.2	16	0.00
	Nagaland	157	0	2.7	2.6	0.0	25	0.00
	Tripura	346	0	6.6	6.5	0.6	68	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	11.5	-7.1	-25.0	-22.9
Day Peak (MW)	851.3	-472.9	-1088.0	-1085.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	122.5	-202.8	93.0	-31.8	19.1	0.0
Actual(MU)	81.6	-192.2	121.0	-33.3	22.1	-0.9
O/D/U/D(MU)	-40.9	10.6	28.0	-1.5	3.0	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3297	10591	5828	2250	434	22400	45
State Sector	6405	14696	3879	2360	265	27604	55
Total	9702	25287	9707	4610	699	50004	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	716	1439	704	649	14	3522	73
Lignite	19	13	40	0	0	72	1
Hydro	252	45	57	70	10	434	9
Nuclear	30	36	45	0	0	111	2
Gas, Naptha & Diesel	10	9	6	0	27	52	1
RES (Wind, Solar, Biomass & Others)	139	230	262	4	1	636	13
Total	1165	1773	1114	723	52	4826	100

Share of RES in total generation (%)	11.92	12.98	23.53	0.49	2.28	13.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.11	17.58	32.67	10.20	20.64	24.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.069

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199477	15:29	549
Non-Solar hr	198726	22:34	779

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: **02-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	1089	0	13.0	0.0	13.0
4	765 kV	SASARAM-FATEHPUR	1	323	154	0.0	1.5	-1.5
5	765 kV	GAYA-BALIA	1	0	553	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	123	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	19	75	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	454	329	0.0	0.1	-0.1
9	400 kV	PATNA-BALIA	2	136	381	0.0	3.8	-3.8
10	400 kV	NAUBATPUR-BALIA	2	196	388	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	328	158	1.3	0.0	1.3
12	400 kV	MOTTHARI-GORAKHPUR	2	227	219	0.0	1.2	-1.2
13	400 kV	BIHARSHARIFF-VARANASI	2	437	51	3.5	0.0	3.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	160	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	63	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>18.4</b>	<b>26.1</b>	<b>-7.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1419	0	15.4	0.0	15.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1600	0	27.4	0.0	27.4
3	765 kV	JHARSUGUDA-DURG	2	0	456	0.0	7.0	-7.0
4	400 kV	JHARSUGUDA-RAIGARH	4	60	412	0.0	4.8	-4.8
5	400 kV	RANCHI-SIPAT	2	376	12	4.5	0.0	4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	149	0	3.4	0.0	3.4
<b>ER-WR</b>						<b>50.7</b>	<b>13.7</b>	<b>37.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	12.1	-12.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1998	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2224	0.0	38.1	-38.1
4	400 kV	TALCHER-I/C	2	312	896	1.3	0.0	1.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>91.1</b>	<b>-91.1</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	203	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	127	633	0.0	10.1	-10.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	126	0.0	1.9	-1.9
<b>ER-NER</b>						<b>0.0</b>	<b>15.0</b>	<b>-15.0</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	385	0	5.6	0.0	5.6
<b>NER-NR</b>						<b>5.6</b>	<b>0.0</b>	<b>5.6</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2517	0.0	39.3	-39.3
2	HVDC	VINDHYACHAL B/B	-	450	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	594	0.0	10.8	-10.8
4	765 kV	GWALIOR-AGRA	2	0	1552	0.0	21.4	-21.4
5	765 kV	GWALIOR-PHAGI	2	1080	671	0.0	3.5	-3.5
6	765 kV	JABALPUR-ORAI	2	69	533	0.0	12.4	-12.4
7	765 kV	GWALIOR-ORAI	1	691	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	767	0.0	16.3	-16.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1298	245	18.5	0.0	18.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3103	0.0	59.2	-59.2
11	400 kV	ZERDA-KANKROLI	1	290	6	4.6	0.0	4.6
12	400 kV	ZERDA -BHINMAL	1	545	63	7.3	0.0	7.3
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUALPUR	2	644	80	5.8	0.0	5.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	74	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	52	11	0.4	0.0	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
<b>WR-NR</b>						<b>83.1</b>	<b>164.8</b>	<b>-81.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5015	0.0	76.0	-76.0
3	765 kV	SOLAPUR-RAICHUR	2	1922	299	18.0	0.0	18.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1507	0.0	21.4	-21.4
5	400 kV	KOLHAPUR-KUDGI	2	1505	0	27.9	0.0	27.9
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	117	0	1.9	0.0	1.9
<b>WR-SR</b>						<b>47.8</b>	<b>121.3</b>	<b>-73.5</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)	431	94	240	5.77
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	325	134	206	4.93
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	170	-80	-20	-0.48
	NER	132kV GELEPHU-SALAKATI	17	0	8	0.19
	NER	132kV MOTANGA-RANGIA	53	29	46	1.11
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-56	-1.34
	ER	NEPAL IMPORT (FROM BIHAR)	-100	-26	-55	-1.32
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-299	0	-184	-4.41
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-918	-777	-889	-21.35
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1086	-857	-953	-22.87
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-153	-3.66