



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: 4<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 03.06.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 3<sup>rd</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	58946	60818	49518	26252	3416	198950
Peak Shortage (MW)	100	0	0	363	69	532
Energy Met (MU)	1294	1486	1203	613	66	4663
Hydro Gen (MU)	243	57	67	73	9	449
Wind Gen (MU)	16	135	130	-	-	281
Solar Gen (MU)*	129.37	61.61	125.01	5.70	1.26	323
Energy Shortage (MU)	1.63	2.30	0.00	5.47	1.56	10.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59470	68736	56532	28224	3474	211608
Time Of Maximum Demand Met	22:22	14:39	14:23	23:46	19:12	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	0.054	0.00	0.67	10.06	10.73	65.69	23.59

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	7148	0	150.7	57.9	0.6	467	0.00
	Haryana	8102	0	162.2	119.7	-1.8	71	0.00
	Rajasthan	12453	0	250.8	48.1	-6.9	210	0.00
	Delhi	4618	0	98.0	94.3	-2.3	135	0.00
	UP	24839	0	496.6	218.9	-0.1	749	0.50
	Uttarakhand	2217	0	47.5	26.0	0.6	150	0.08
	HP	1503	0	28.4	3.9	0.2	166	0.00
	J&K(UT) & Ladakh(UT)	2605	0	52.0	26.6	0.9	308	1.05
	Chandigarh	228	0	4.5	4.5	0.0	47	0.00
Railways_NR ISTS	173	0	3.9	3.2	0.7	50	0.00	
WR	Chhattisgarh	4756	0	106.8	60.4	-0.9	395	0.00
	Gujarat	21635	0	450.9	221.9	0.0	985	0.00
	MP	11666	0	254.2	140.2	-2.6	444	0.00
	Maharashtra	27881	687	601.1	231.9	2.2	1045	2.30
	Goa	726	0	14.8	15.3	-0.7	77	0.00
	DNHDDPDCL	1247	0	29.2	29.3	-0.1	59	0.00
	AMNSIL	746	0	16.9	10.4	-0.4	195	0.00
	BALCO	518	0	12.3	12.5	-0.2	8	0.00
SR	Andhra Pradesh	12376	0	253.7	83.2	1.2	953	0.00
	Telangana	10092	0	205.8	84.7	1.0	437	0.00
	Karnataka	12848	0	250.9	73.1	0.2	633	0.00
	Kerala	4536	0	93.6	64.6	0.4	369	0.00
	Tamil Nadu	18184	0	388.0	188.2	-0.7	701	0.00
	Puducherry	495	0	11.4	10.6	0.1	49	0.00
ER	Bihar	6676	212	137.7	133.5	-1.6	331	4.08
	DVC	3450	0	75.5	-45.9	0.6	323	0.00
	Jharkhand	1801	0	38.0	31.5	-1.8	176	1.39
	Odisha	6134	0	124.7	47.5	-0.1	578	0.00
	West Bengal	11366	0	236.2	125.9	-2.7	234	0.00
	Sikkim	87	0	1.4	1.5	-0.1	40	0.00
	Railways_ER ISTS	8	0	-0.1	0.3	-0.4	0	0.00
NER	Arunachal Pradesh	169	0	2.8	2.4	0.4	68	0.00
	Assam	2267	0	44.4	37.4	0.4	249	0.00
	Manipur	184	0	2.6	2.5	0.1	38	0.00
	Meghalaya	314	37	4.7	3.0	0.3	80	1.56
	Mizoram	137	0	2.1	1.8	0.0	25	0.00
	Nagaland	162	0	3.0	2.9	-0.1	18	0.00
	Tripura	365	0	6.6	6.6	0.6	130	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	8.9	-6.7	-25.2	-19.1
Day Peak (MW)	590.0	-482.6	-1088.0	-1150.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	151.2	-225.2	93.9	-40.7	20.8	0.0
Actual(MU)	112.7	-204.8	111.8	-46.3	22.3	-4.2
O/D/U/D(MU)	-38.5	20.4	17.9	-5.6	1.5	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3729	8922	5718	520	797	19686	42
State Sector	6160	14061	4079	2700	265	27264	58
Total	9889	22983	9797	3220	1062	46950	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	802	1499	732	664	17	3713	74
Lignite	21	17	45	0	0	83	2
Hydro	243	57	67	73	9	449	9
Nuclear	30	37	46	0	0	112	2
Gas, Naptha & Diesel	12	19	7	0	24	61	1
RES (Wind, Solar, Biomass & Others)	154	198	271	6	1	630	12
Total	1261	1826	1166	743	51	5047	100

Share of RES in total generation (%)	12.20	10.82	23.20	0.83	2.47	12.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.83	15.95	32.84	10.62	20.48	23.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.061

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211608	15:00	506
Non-Solar hr	204033	22:41	759

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-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	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	730	0	9.2	0.0	9.2
4	765 kV	SASARAM-FATEHPUR	1	200	108	1.2	0.0	1.2
5	765 kV	GAYA-BALIA	1	0	640	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	201	452	0.0	2.1	-2.1
9	400 kV	PATNA-BALIA	2	0	323	0.0	4.8	-4.8
10	400 kV	NAUBATPUR-BALIA	2	0	311	0.0	4.3	-4.3
11	400 kV	BIHARSHARIFF-BALIA	2	254	135	0.9	0.0	0.9
12	400 kV	MOTIHARI-GORAKHPUR	2	102	276	0.0	2.7	-2.7
13	400 kV	BIHARSHARIFF-VARANASI	2	288	34	2.7	0.0	2.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	163	0.0	2.8	-2.8
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	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>14.8</b>	<b>32.4</b>	<b>-17.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1449	0	21.9	0.0	21.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1798	0	32.7	0.0	32.7
3	765 kV	JHARSUGUDA-DURG	2	0	392	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	547	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	335	0	4.7	0.0	4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	127	0	2.3	0.0	2.3
<b>ER-WR</b>						<b>61.6</b>	<b>15.5</b>	<b>46.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2010	0.0	42.5	-42.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2569	0.0	51.9	-51.9
4	400 kV	TALCHER-I/C	2	261	184	2.2	0.0	2.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>106.8</b>	<b>-106.8</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	228	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	636	0.0	9.1	-9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	125	0.0	1.6	-1.6
<b>ER-NER</b>						<b>0.0</b>	<b>13.8</b>	<b>-13.8</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	287	0	6.9	0.0	6.9
<b>NER-NR</b>						<b>6.9</b>	<b>0.0</b>	<b>6.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	35.1	-35.1
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1953	0.0	31.0	-31.0
5	765 kV	GWALIOR-PHAGI	2	525	1135	1.2	11.8	-10.6
6	765 kV	JABALPUR-ORAI	2	0	892	0.0	25.3	-25.3
7	765 kV	GWALIOR-ORAI	1	831	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	998	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1687	0	22.5	0.0	22.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3230	0.0	60.1	-60.1
11	400 kV	ZERDA-KANKROLI	1	312	0	4.8	0.0	4.8
12	400 kV	ZERDA -BHINMAL	1	512	7	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	329	160	2.7	0.5	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	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	63	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	40	11	0.3	0.0	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>85.8</b>	<b>192.5</b>	<b>-106.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	303	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	39.8	-39.8
3	765 kV	SOLAPUR-RAICHUR	2	864	1017	6.1	3.5	2.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2113	0.0	35.2	-35.2
5	400 kV	KOLHAPUR-KUDGI	2	1463	0	25.4	0.0	25.4
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	130	2.6	0.0	2.6
<b>WR-SR</b>						<b>34.1</b>	<b>85.7</b>	<b>-51.6</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)	292	97	224	5.38	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	327	131	161	3.85	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-96	22	-65	-1.57	
	NER	132kV GELEPHU-SALAKATI	22	0	6	0.14	
	NER	132kV MOTANGA-RANGIA	56	35	45	1.07	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-58	-1.39	
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-11	-37	-0.89	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-313	0	-185	-4.43	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-798	-896	-21.51	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1150	-509	-797	-19.13	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-153	-3.68	