



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: 04<sup>th</sup> May 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 03.05.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-मई-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 03<sup>rd</sup> May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-May-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)	44121	54140	44703	22418	2693	168075
Peak Shortage (MW)	0	0	0	199	57	256
Energy Met (MU)	1004	1246	1001	502	51	3804
Hydro Gen (MU)	203	18	68	44	12	344
Wind Gen (MU)	5	59	41	-	-	105
Solar Gen (MU)*	136.73	55.36	104.36	2.96	0.90	300
Energy Shortage (MU)	0.17	0.00	0.00	2.42	1.40	3.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47159	56477	45760	22642	2712	172050
Time Of Maximum Demand Met	10:51	19:21	11:56	18:54	19:08	10:25

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	0.042	0.00	0.68	7.65	8.33	77.12	14.55

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	6666	0	140.1	67.8	-0.6	79	0.00
	Haryana	6245	0	129.5	94.6	-2.2	167	0.00
	Rajasthan	11199	0	222.2	68.6	-2.1	298	0.00
	Delhi	3944	0	74.7	73.9	-1.8	129	0.00
	UP	15127	0	308.1	136.0	-1.6	936	0.00
	Uttarakhand	1850	0	37.2	19.1	-0.6	144	0.00
	HP	1555	0	28.4	7.6	-0.4	37	0.04
	J&K(UT) & Ladakh(UT)	2747	0	55.9	38.6	0.1	185	0.13
	Chandigarh	189	0	3.7	3.8	-0.2	20	0.00
Railways_NR ISTS	185	0	4.0	3.2	0.8	52	0.00	
WR	Chhattisgarh	3963	0	87.9	30.2	-1.4	276	0.00
	Gujarat	18334	0	388.3	196.4	-2.8	1027	0.00
	MP	8630	0	184.1	92.8	-3.1	383	0.00
	Maharashtra	24329	0	512.2	216.6	-0.2	990	0.00
	Goa	713	0	15.6	15.1	-0.1	37	0.00
	DNHDDPDCL	1261	0	28.9	29.1	-0.2	77	0.00
	AMNSIL	769	0	17.0	10.5	0.1	300	0.00
	BALCO	516	0	12.3	12.4	-0.1	516	0.00
SR	Andhra Pradesh	8654	0	188.6	55.2	-0.6	804	0.00
	Telangana	7379	0	160.4	43.6	0.0	698	0.00
	Karnataka	12086	0	242.4	96.1	-1.3	633	0.00
	Kerala	4269	0	87.0	68.0	-0.4	221	0.00
	Tamil Nadu	14730	0	313.6	190.0	-3.7	405	0.00
	Puducherry	387	0	8.8	8.6	-0.6	51	0.00
ER	Bihar	5486	0	110.5	100.3	-0.9	264	0.26
	DVC	3436	0	73.7	-41.3	0.0	365	0.00
	Jharkhand	1464	0	29.3	26.6	-2.4	205	2.16
	Odisha	5353	0	105.9	35.3	-2.8	277	0.00
	West Bengal	7980	0	181.2	41.3	-2.3	94	0.00
	Sikkim	97	0	1.6	1.3	0.3	67	0.00
	Railways_ER ISTS	2	0	0.1	0.0	0.1	0	0.00
NER	Arunachal Pradesh	152	0	2.5	2.5	-0.1	31	0.00
	Assam	1635	0	30.6	23.4	0.2	178	0.00
	Manipur	191	0	2.7	2.7	-0.1	28	0.00
	Meghalaya	332	92	5.3	3.4	0.1	57	1.40
	Mizoram	123	0	1.8	1.8	-0.2	13	0.00
	Nagaland	140	0	2.4	2.4	-0.1	16	0.00
Tripura	281	0	5.6	5.2	0.4	66	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.3	-12.4	-25.6	-9.4
Day Peak (MW)	202.2	-641.1	-1104.0	-439.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.8	-142.2	96.5	-97.9	-0.2	0.0
Actual(MU)	124.5	-125.7	97.5	-103.1	1.6	-5.2
O/D/U/D(MU)	-19.3	16.5	1.0	-5.2	1.8	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8027	13156	4958	2640	460	29241	45
State Sector	13820	15320	4734	1460	241	35574	55
Total	21847	28475	9692	4100	701	64815	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	520	1268	611	644	14	3057	74
Lignite	23	19	52	0	0	94	2
Hydro	203	18	68	44	12	344	8
Nuclear	30	36	62	0	0	128	3
Gas, Naptha & Diesel	8	17	6	0	30	61	1
RES (Wind, Solar, Biomass & Others)	158	116	174	4	1	452	11
Total	942	1474	973	691	57	4136	100

Share of RES in total generation (%)	16.83	7.84	17.85	0.51	1.58	10.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.48	11.54	31.23	6.88	22.22	22.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	172050	10:25	108
Non-Solar hr	171262	19:43	291

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-May-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	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	406	617	0.0	5.9	-5.9
4	765 kV	SASARAM-FATEHPUR	1	105	469	0.0	5.3	-5.3
5	765 kV	GAYA-BALIA	1	0	630	0.0	10.8	-10.8
6	400 kV	PUSAULI-VARANASI	1	0	74	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	107	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	260	682	0.0	7.1	-7.1
9	400 kV	PATNA-BALIA	2	69	428	0.0	6.1	-6.1
10	400 kV	NAUBATPUR-BALIA	2	109	449	0.0	6.1	-6.1
11	400 kV	BIHARSHARIFF-BALIA	2	246	227	0.0	0.9	-0.9
12	400 kV	MOTTHARI-GORAKHPUR	2	111	439	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	181	279	0.0	2.3	-2.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	155	0.0	2.4	-2.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	18	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>0.4</b>	<b>57.2</b>	<b>-56.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	765	276	7.5	0.0	7.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	852	62	9.8	0.0	9.8
3	765 kV	JHARSUGUDA-DURG	2	0	521	0.0	9.4	-9.4
4	400 kV	JHARSUGUDA-RAIGARH	4	30	429	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	290	66	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	104	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	132	0	2.6	0.0	2.6
<b>ER-WR</b>						<b>22.0</b>	<b>17.6</b>	<b>4.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2713	0.0	52.9	-52.9
4	400 kV	TALCHER-I/C	2	260	641	3.3	0.0	3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>105.0</b>	<b>-105.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	161	57	1.6	0.1	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	520	64	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	142	0	1.6	0.0	1.6
<b>ER-NER</b>						<b>9.0</b>	<b>0.1</b>	<b>8.9</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	10.4	0.0	10.4
<b>NER-NR</b>						<b>10.4</b>	<b>0.0</b>	<b>10.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	997	0.1	23.7	-23.6
2	HVDC	VINDHYACHAL B/B	-	246	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	313	0	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	2004	0.0	33.8	-33.8
5	765 kV	GWALIOR-PHAGI	2	322	1631	0.6	19.2	-18.6
6	765 kV	JABALPUR-ORAI	2	0	758	0.0	22.9	-22.9
7	765 kV	GWALIOR-ORAI	1	856	0	14.3	0.0	14.3
8	765 kV	SATNA-ORAI	1	0	919	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1693	0	20.9	0.0	20.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2653	0.0	48.3	-48.3
11	400 kV	ZERDA-KANKROLI	1	341	25	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	630	30	6.9	0.0	6.9
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	443	290	2.8	2.1	0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	41	14	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	32	20	0.2	0.1	0.1
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>86.0</b>	<b>169.9</b>	<b>-83.9</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	26.9	-26.9
3	765 kV	SOLAPUR-RAICHUR	2	873	1213	3.9	5.8	-1.9
4	765 kV	WARDHA-NIZAMABAD	2	0	1717	0.0	26.4	-26.4
5	400 kV	KOLHAPUR-KUDGI	2	1297	0	22.7	0.0	22.7
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	119	2.4	0.0	2.4
<b>WR-SR</b>						<b>29.0</b>	<b>66.3</b>	<b>-37.3</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)	70	-38	7	0.18
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	321	78	174	4.17
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-234	-75	-137	-3.28
	NER	132kV GELEPHU-SALAKATI	-18	-3	-12	-0.29
	NER	132kV MOTANGA-RANGIA	30	11	21	0.50
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-52	-1.26
	ER	NEPAL IMPORT (FROM BIHAR)	-93	-14	-74	-1.77
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-476	-296	-392	-9.41
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-849	-913	-21.92
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-439	-331	-391	-9.39
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-180	0	-155	-3.72