



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: 25<sup>th</sup> April 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 24.04.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-अप्रैल-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 24<sup>th</sup> April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-Apr-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)	50735	59292	48950	22400	2604	183981
Peak Shortage (MW)	0	0	0	81	63	144
Energy Met (MU)	1113	1428	1178	483	45	4247
Hydro Gen (MU)	163	33	70	40	10	315
Wind Gen (MU)	18	58	32	-	-	108
Solar Gen (MU)*	141.76	64.47	126.17	5.53	1.38	339
Energy Shortage (MU)	0.26	0.00	0.00	0.87	1.40	2.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52646	65614	56756	22769	2732	191917
Time Of Maximum Demand Met (From NLDC SCADA)	19:48	15:00	15:17	18:47	18:39	11:55

**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	0.052	0.00	0.47	11.28	11.76	72.01	16.24

**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	7185	0	147.8	33.4	-1.2	85	0.00
	Haryana	7852	0	149.9	87.1	-1.7	190	0.00
	Rajasthan	12866	0	259.6	63.7	-3.5	128	0.00
	Delhi	4082	0	86.2	79.6	-2.4	50	0.00
	UP	16209	0	334.6	133.2	-0.8	465	0.00
	Uttarakhand	1999	0	40.9	20.9	0.5	259	0.00
	HP	1636	0	30.0	14.9	-0.5	82	0.00
	J&K(UT) & Ladakh(UT)	2637	0	55.7	44.6	0.0	220	0.26
	Chandigarh	209	0	4.5	4.7	-0.2	15	0.00
	Railways NR ISTS	171	0	3.7	3.3	0.3	26	0.00
WR	Chhattisgarh	4420	0	101.8	41.9	-1.7	194	0.00
	Gujarat	20870	0	440.3	230.1	-1.7	672	0.00
	MP	10384	0	230.6	126.0	-2.7	561	0.00
	Maharashtra	27068	0	582.7	206.3	-1.5	834	0.00
	Goa	708	0	13.3	14.9	-2.0	46	0.00
	DNHDDPDCL	1270	0	29.0	29.6	-0.6	25	0.00
	AMNSIL	828	0	18.1	7.8	0.2	249	0.00
	BALCO	520	0	12.4	12.5	-0.1	8	0.00
	Andhra Pradesh	10745	0	220.2	99.2	-1.8	613	0.00
	Telangana	9894	0	197.9	74.8	-1.1	510	0.00
SR	Karnataka	15361	0	294.1	119.0	-0.5	734	0.00
	Kerala	4675	0	96.2	73.1	-0.2	280	0.00
	Tamil Nadu	17066	0	359.5	220.5	-2.2	429	0.00
	Puducherry	437	0	9.9	9.9	-0.7	7	0.00
	Bihar	5543	0	98.3	91.5	-2.8	575	0.79
ER	DVC	3519	0	73.7	-41.7	-1.3	246	0.00
	Jharkhand	1523	0	29.5	25.0	-3.7	184	0.08
	Odisha	5989	0	115.5	48.1	-1.8	407	0.00
	West Bengal	7429	0	164.5	35.9	-4.9	120	0.00
	Sikkim	94	0	1.3	1.3	0.0	62	0.00
NER	Arunachal Pradesh	149	0	2.2	2.4	-0.3	79	0.00
	Assam	1678	0	26.5	20.2	-0.4	89	0.00
	Manipur	182	0	2.4	2.4	0.0	36	0.00
	Meghalaya	306	63	5.0	3.6	-0.1	72	1.40
	Mizoram	113	0	1.8	1.5	-0.3	8	0.00
	Nagaland	146	0	2.0	2.1	-0.1	13	0.00
	Tripura	277	0	4.9	4.3	-0.1	56	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.6	-12.4	-23.3	-11.3
Day Peak (MW)	36.0	-641.4	-1092.0	-560.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	87.0	-173.5	193.9	-103.9	-3.6	0.0
Actual(MU)	58.6	-155.3	213.3	-118.8	-2.0	-4.1
O/D/U/D(MU)	-28.4	18.2	19.4	-14.9	1.6	-4.1

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4187	8111	3538	1550	425	17811	45
State Sector	5690	11390	3568	1290	245	22183	55
Total	9877	19501	7106	2840	670	39993	100

**G. Sourcewise generation (Gross) (MU)**

	NR	WR	SR	ER	NER	All India	% Share
Coal	715	1474	682	642	13	3526	76
Lignite	23	19	52	0	0	94	2
Hydro	163	33	70	40	10	315	7
Nuclear	30	36	45	0	0	111	2
Gas, Naptha & Diesel	18	18	6	0	30	72	2
RES (Wind, Solar, Biomass & Others)	179	124	188	6	1	498	11
Total	1129	1704	1043	688	53	4617	100

Share of RES in total generation (%)	15.89	7.28	17.98	0.86	2.58	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.99	11.32	29.02	6.65	20.85	20.03

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.045
Based on State Max Demands	1.074

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

\*\*Note: All generation MU figures are gross

\*\*\*Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)  
Date of Reporting: 25-Apr-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	222	797	0.0	8.5	-8.5	
4	765 kV	SASARAM-FAITEHPUR	1	32	586	0.0	6.2	-6.2	
5	765 kV	GAYA-BALIA	1	0	575	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	9	88	0.0	1.0	-1.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	116	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	174	675	0.0	6.1	-6.1	
9	400 kV	PATNA-BALIA	2	0	452	0.0	6.2	-6.2	
10	400 kV	NAUBATTI-R-BALIA	2	14	467	0.0	6.2	-6.2	
11	400 kV	BIHARSHARIFE-BALIA	2	207	264	0.0	1.1	-1.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	28	495	0.0	6.1	-6.1	
13	400 kV	BIHARSHARIFE-VARANASI	2	95	338	0.0	3.4	-3.4	
14	220 kV	SAHUPUR-BAKRAMANASA	1	143	0	0.0	2.2	-2.2	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	29	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						<b>ER-NR</b>	<b>0.3</b>	<b>58.5</b>	<b>-58.2</b>
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSI-GUDA-DHARAMJIAGARH	4	1768	139	17.5	0.0	17.5	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	227	749	0.0	5.3	-5.3	
3	765 kV	JHARSUGUDA-DURG	2	0	624	0.0	9.9	-9.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	485	0.0	11.2	-11.2	
5	400 kV	RANCHI-SIPA	2	41	322	0.0	2.2	-2.2	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.0	-1.0	
7	220 kV	BUDDHIPADAR-KORBA	2	122	0	2.6	0.0	2.6	
						<b>ER-WR</b>	<b>20.2</b>	<b>29.4</b>	<b>-9.2</b>
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	439	0.0	16.4	-16.4	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1655	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2931	0.0	59.8	-59.8	
4	400 kV	TALCHER-I/C	2	255	320	3.2	0.0	3.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>0.0</b>	<b>109.8</b>	<b>-109.8</b>
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	178	15	2.2	0.0	2.2	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	610	0	9.0	0.0	9.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	114	0	1.8	0.0	1.8	
						<b>ER-NER</b>	<b>13.0</b>	<b>0.0</b>	<b>13.0</b>
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH-CHARIALI-AGRA	2	482	0	11.5	0.0	11.5	
						<b>NER-NR</b>	<b>11.5</b>	<b>0.0</b>	<b>11.5</b>
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	5	1501	0.0	20.2	-20.2	
2	HVDC	VINDHYACHAL-B/B	-	442	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	305	0.0	0.6	-0.6	
4	765 kV	GWALIOR-AGRA	2	0	1277	0.0	22.2	-22.2	
5	765 kV	GWALIOR-PHAGI	2	463	1519	1.8	20.0	-18.2	
6	765 kV	JABALPUR-ORAI	2	178	649	0.0	14.8	-14.8	
7	765 kV	GWALIOR-ORAI	1	933	0	15.8	0.0	15.8	
8	765 kV	SATNA-ORAI	1	0	920	0.0	17.8	-17.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	2790	0	39.3	0.0	39.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1949	0.0	34.9	-34.9	
11	400 kV	ZERDA-KANKROLI	1	537	43	7.3	0.0	7.3	
12	400 kV	ZERDA-BHINMAL	1	894	0	10.5	0.0	10.5	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.8	0.0	21.8	
14	400 kV	RAPS-SHILAPUR	2	692	200	5.0	1.7	3.3	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	66	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	51	0	0.7	0.0	0.7	
19	132 kV	GWALIOR-SAWALMADHOPUR	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>115.1</b>	<b>132.3</b>	<b>-17.2</b>
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI-B/B	-	0	1009	0.0	14.3	-14.3	
2	HVDC	BAHARH-PUGAULUR	2	0	6021	0.0	103.7	-103.7	
3	765 kV	KOLHAPUR-KAICHULP	2	328	1354	0.3	12.7	-12.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2330	0.0	39.2	-39.2	
5	400 kV	KOLHAPUR-KUDGI	2	1041	0	19.8	0.0	19.8	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	BONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEMI-AMBEWADI	1	0	126	2.6	0.0	2.6	
						<b>WR-SR</b>	<b>22.7</b>	<b>169.9</b>	<b>-147.2</b>
<b>INTERNATIONAL EXCHANGES</b>									
						<b>Import(+ve)/Export(-ve)</b>			
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 IEP 4180MW)	-86	6	-44	-1.05			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 6170MW)	325	212	264	6.34			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4584MW)	-214	-127	-184	-4.42			
	NER	132kV GELEPHU-SALAKATI	-23	-6	-17	-0.41			
	NER	132kV MOTANGA-RANGIA	7	0	5	0.11			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-61	-1.46			
	ER	NEPAL IMPORT (FROM BIHAR)	-95	-72	-82	-1.96			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-471	-222	-376	-9.02			
	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-699	-847	-20.32			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-560	-344	-469	-11.25			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-126	-3.02			