



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: 23<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 22.04.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22<sup>th</sup> April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-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)	55675	56605	47476	22119	2561	184436
Peak Shortage (MW)	0	0	0	827	57	884
Energy Met (MU)	1202	1433	1206	512	43	4396
Hydro Gen (MU)	193	25	52	42	13	326
Wind Gen (MU)	16	108	41	-	-	165
Solar Gen (MU)*	143.89	64.73	109.85	2.53	1.14	322
Energy Shortage (MU)	0.02	0.00	0.00	2.67	1.32	4.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56871	65049	57489	24011	2663	198272
Time Of Maximum Demand Met (From NLDC SCADA)	19:47	11:47	12:44	14:38	19:17	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	0.040	0.00	0.00	2.30	2.30	72.87	24.82

**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	6699	0	139.9	31.1	-1.0	215	0.00
	Haryana	7686	0	150.9	89.3	-2.6	123	0.00
	Rajasthan	13353	0	262.9	77.5	-8.2	267	0.00
	Delhi	4310	0	89.3	83.8	-2.6	189	0.00
	UP	21450	0	418.1	174.6	-2.7	318	0.00
	Uttarakhand	2052	0	43.0	21.4	-0.9	88	0.00
	HP	1588	0	30.3	13.5	0.4	118	0.02
	J&K(UT) & Ladakh(UT)	2773	0	59.0	44.0	0.3	278	0.00
	Chandigarh	212	0	4.6	4.7	-0.1	16	0.00
	Railways NR ISTS	180	0	3.9	3.2	0.7	52	0.00
WR	Chhattisgarh	4945	0	104.6	48.5	-4.5	277	0.00
	Gujarat	20422	0	439.3	169.7	-1.5	1066	0.00
	MP	11187	0	250.3	145.8	-4.6	300	0.00
	Maharashtra	26374	0	563.4	201.0	-0.3	709	0.00
	Goa	706	0	14.9	15.1	-0.6	53	0.00
	DNHDDPDCL	1252	0	29.5	29.7	-0.2	31	0.00
	AMNSIL	787	0	18.2	8.7	0.9	304	0.00
	BALCO	522	0	12.4	12.5	-0.1	8	0.00
	Andhra Pradesh	11322	0	228.7	103.4	0.0	703	0.00
	Telangana	10196	0	200.4	72.1	-1.4	456	0.00
SR	Karnataka	14209	0	278.4	114.5	-1.9	555	0.00
	Kerala	4626	0	94.2	73.0	-0.2	191	0.00
	Tamil Nadu	18628	0	394.0	242.9	-3.0	358	0.00
	Puducherry	462	0	10.8	10.5	-0.4	36	0.00
	Bihar	5824	66	102.4	93.3	-1.5	403	2.67
ER	DVC	3356	0	76.9	-40.9	0.0	351	0.00
	Jharkhand	1546	0	31.8	26.3	-3.0	199	0.00
	Odisha	5221	0	111.0	50.2	-4.0	355	0.00
	West Bengal	9183	0	189.2	63.9	-4.2	134	0.00
	Sikkim	63	0	0.9	1.2	-0.3	14	0.00
NER	Arunachal Pradesh	136	0	2.2	2.4	-0.4	37	0.00
	Assam	1658	0	26.6	20.1	0.0	140	0.00
	Manipur	166	0	2.1	2.4	-0.3	12	0.00
	Meghalaya	296	57	5.1	4.0	-0.1	58	1.32
	Mizoram	109	0	1.5	1.4	-0.4	26	0.00
	Nagaland	125	0	2.0	2.4	-0.4	11	0.00
Tripura	275	0	3.7	3.5	-0.4	75	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.7	-12.7	-24.8	-12.0
Day Peak (MW)	363.9	-712.7	-1103.0	-672.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	109.1	-226.6	192.8	-66.9	-8.4	0.0
Actual(MU)	87.9	-207.8	210.5	-88.3	-7.3	-4.9
O/D/U/D(MU)	-21.1	18.8	17.8	-21.4	1.1	-4.9

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3047	10741	3498	1900	425	19611	43
State Sector	6415	14755	2558	2490	245	26462	57
Total	9462	25495	6056	4390	670	46073	100

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

	NR	WR	SR	ER	NER	All India	% Share
Coal	750	1509	722	641	13	3636	76
Lignite	24	15	60	0	0	99	2
Hydro	193	25	52	42	13	326	7
Nuclear	30	35	45	0	0	110	2
Gas, Naptha & Diesel	18	15	6	0	30	69	1
RES (Wind, Solar, Biomass & Others)	178	174	180	3	1	537	11
Total	1193	1774	1065	687	57	4776	100

Share of RES in total generation (%)	14.95	9.84	16.88	0.43	1.99	11.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.69	13.22	25.99	6.61	24.99	20.37

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.039
Based on State Max Demands	1.079

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: 23-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	488	740	0.0	6.7	-6.7	
4	765 kV	SASARAM-FATEHPUR	1	120	520	0.0	5.9	-5.9	
5	765 kV	GAYA-BALIA	1	0	579	0.0	9.5	-9.5	
6	400 kV	PUSAULI-VARANASI	1	0	129	0.0	1.8	-1.8	
7	400 kV	PUSAULI-ALLAHABAD	1	22	75	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	355	811	0.0	7.9	-7.9	
9	400 kV	PATNA-BALIA	2	49	529	0.0	7.3	-7.3	
10	400 kV	NALBATTI-R-BALIA	2	97	560	0.0	7.4	-7.4	
11	400 kV	BIHARSHARIFE-BALIA	2	256	383	0.0	2.5	-2.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	142	491	0.0	5.9	-5.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	217	350	0.0	3.1	-3.1	
14	220 kV	SAHUPUR-BKARMANASA	1	1	191	0.0	1.8	-1.8	
15	132 kV	NAGARUNTARI-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	36	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	62.7	-62.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	2162	0	32.7	0.0	32.7	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	853	655	0.4	0.0	0.4	
3	765 kV	JHARSUGUDA-DURG	2	0	697	0.0	11.6	-11.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	374	0.0	5.2	-5.2	
5	400 kV	RANCHI-SIPA	2	108	172	0.0	0.4	-0.4	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.3	-1.3	
7	220 kV	BUDDHIPADAR-KORBA	2	122	0	2.3	0.0	2.3	
						ER-WR	35.3	18.4	16.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	441	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1641	0.0	37.0	-37.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2983	0.0	59.7	-59.7	
4	400 kV	TALCHER-I/C	2	457	96	6.4	0.0	6.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.7	-106.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	321	0	3.7	0.0	3.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	960	0	12.2	0.0	12.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	170	0	2.0	0.0	2.0	
						ER-NER	17.9	0.0	17.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURKSHETRA	2	0	1503	0.0	22.4	-22.4	
2	HVDC	VINDHYACHAL-B/B	-	447	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1175	0.0	16.7	-16.7	
4	765 kV	GWALIOR-AGRA	2	0	1293	0.0	19.0	-19.0	
5	765 kV	GWALIOR-PHAGI	2	113	0	12.77	0.0	12.77	
6	765 kV	JABALPUR-ORAI	2	206	548	0.0	11.5	-11.5	
7	765 kV	GWALIOR-ORAI	1	796	0	12.5	0.0	12.5	
8	765 kV	SATNA-ORAI	1	0	812	0.0	16.3	-16.3	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	2128	0	26.6	0.0	26.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2426	0.0	40.1	-40.1	
11	400 kV	ZERDA-KANKROLI	1	399	0	5.4	0.0	5.4	
12	400 kV	ZERDA-BHINMAL	1	693	0	7.9	0.0	7.9	
13	400 kV	VINDHYACHAL-RIHAND	1	954	0	21.5	0.0	21.5	
14	400 kV	RAPS-SHILAIPTUR	2	757	196	4.2	0.0	4.2	
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	67	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	52	0	0.8	0.0	0.8	
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	
						WR-NR	92.1	133.5	-41.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI-B/B	-	299	508	0.3	7.0	-6.7	
2	HVDC	BAHARH-PUGAUR	2	0	6919	0.0	93.5	-93.5	
3	765 kV	KOLHAPUR-KAICHILP	2	50	1858	0.0	20.4	-20.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2873	0.0	49.0	-49.0	
5	400 kV	KOLHAPUR-KUDGI	2	1038	0	17.8	0.0	17.8	
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	
						WR-SR	20.7	169.9	-149.2
<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 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4180MW)	176	-97	69	1.66			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6170MW)	294	116	200	4.80			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)	-82	-7	-39	-0.94			
	NER	132kV GELEPHU-SALAKATI	-23	-3	-12	-0.30			
NEPAL	NER	132kV MOTANGA-RANGIA	19	-12	4	0.09			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-62	-1.49			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-506	-213	-389	-9.34			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-941 -672	-832 -401	-911 -499	-21.86 -11.98			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-121	-2.90			