



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> 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 24.05.2023.**

महोदय/Dear Sir,

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

धन्यवाद,

Report for previous day

Date of Reporting: 25-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)	58560	62910	48618	24787	2834	197709
Peak Shortage (MW)	80	0	0	4	6	90
Energy Met (MU)	1332	1504	1170	533	50	4589
Hydro Gen (MU)	283	46	60	47	11	447
Wind Gen (MU)	48	202	100	-	-	351
Solar Gen (MU)*	127.96	65.43	127.98	5.31	0.74	327
Energy Shortage (MU)	0.15	0.00	0.00	2.36	1.08	3.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61589	68227	55081	25578	2892	210952
Time Of Maximum Demand Met	14:56	15:03	14:44	23:26	18:49	14:48

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	0.044	0.00	0.05	6.08	6.12	69.62	24.26

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	9316	0	180.0	98.9	-3.3	272	0.00
	Haryana	8020	0	175.5	126.9	-3.0	365	0.00
	Rajasthan	14910	0	277.0	76.1	-13.3	280	0.00
	Delhi	6142	0	119.1	108.9	-5.5	168	0.00
	UP	24292	0	453.1	206.8	-0.2	661	0.00
	Uttarakhand	2037	0	35.2	16.3	-3.5	99	0.00
	HP	1488	0	29.7	0.0	-0.6	132	0.07
	J&K(UT) & Ladakh(UT)	2757	80	52.1	28.0	-1.4	104	0.08
	Chandigarh	301	0	6.0	6.6	-0.6	7	0.00
Railways_NR ISTS	182	0	3.9	3.3	0.6	33	0.00	
WR	Chhattisgarh	4837	0	107.7	54.5	-1.2	227	0.00
	Gujarat	21310	0	451.1	168.6	3.0	906	0.00
	MP	11945	0	268.3	150.8	-3.9	515	0.00
	Maharashtra	28121	0	600.8	218.8	1.0	894	0.00
	Goa	750	0	15.8	15.5	-0.1	42	0.00
	DNHDDPDCL	1234	0	28.8	29.1	-0.3	37	0.00
	AMNSIL	897	0	18.9	9.7	0.3	292	0.00
	BALCO	518	0	12.4	12.5	-0.1	8	0.00
SR	Andhra Pradesh	12026	0	243.0	88.6	-0.6	440	0.00
	Telangana	9552	0	194.7	66.0	-1.3	321	0.00
	Karnataka	12297	0	242.8	68.2	-2.4	452	0.00
	Kerala	4685	0	94.6	67.0	0.1	365	0.00
	Tamil Nadu	17578	0	384.3	209.0	-1.0	560	0.00
	Puducherry	489	0	10.8	10.6	-0.5	51	0.00
ER	Bihar	6277	4	110.7	102.5	-1.8	425	2.05
	DVC	3621	0	76.7	-33.5	0.6	254	0.00
	Jharkhand	1789	0	36.0	30.5	-2.2	208	0.31
	Odisha	6496	0	126.3	59.0	-1.9	523	0.00
	West Bengal	9240	0	181.4	67.5	-4.3	132	0.00
	Sikkim	94	0	1.4	1.4	0.0	39	0.00
	Railways_ER ISTS	8	0	0.1	0.3	-0.2	0	0.00
NER	Arunachal Pradesh	146	0	2.5	2.5	0.0	28	0.00
	Assam	1807	0	32.3	26.2	0.0	107	0.00
	Manipur	159	0	2.4	2.4	-0.1	30	0.00
	Meghalaya	331	6	4.9	2.5	-0.1	60	1.08
	Mizoram	109	0	1.9	1.9	-0.3	8	0.00
	Nagaland	145	0	2.6	2.5	-0.1	14	0.00
	Tripura	251	0	4.0	5.3	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.7	-4.9	-24.5	-12.5
Day Peak (MW)	409.4	-410.7	-1069.0	-692.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.4	-254.4	125.4	-80.1	1.8	0.0
Actual(MU)	157.5	-257.1	153.8	-63.5	5.3	-4.1
O/D/U/D(MU)	-49.9	-2.7	28.4	16.6	3.6	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3599	8626	5748	2300	434	20706	45
State Sector	7795	13005	2198	2000	277	25274	55
Total	11393	21631	7946	4300	710	45980	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	712	1453	693	626	12	3496	71
Lignite	16	20	38	0	0	74	1
Hydro	283	46	60	47	11	447	9
Nuclear	30	36	46	0	0	111	2
Gas, Naptha & Diesel	35	47	6	0	28	116	2
RES (Wind, Solar, Biomass & Others)	185	269	249	5	1	709	15
Total	1260	1870	1091	678	52	4952	100

Share of RES in total generation (%)	14.68	14.37	22.77	0.79	1.43	14.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.52	18.74	32.44	7.71	23.04	25.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.072

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210952	14:48	45
Non-Solar hr	199605	0:00	48

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: 25-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	955	511	4.4	0.0	4.4	
4	765 kV	SASARAM-FATEHPUR	1	57	392	0.0	1.2	-1.2	
5	765 kV	GAYA-BALIA	1	0	568	0.0	7.5	-7.5	
6	400 kV	PUSAULI-VARANASI	1	2	140	0.0	1.6	-1.6	
7	400 kV	PUSAULI -ALLAHABAD	1	35	112	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	245	844	0.0	4.5	-4.5	
9	400 kV	PATNA-BALIA	2	3	637	0.0	7.0	-7.0	
10	400 kV	NAUBATPUR-BALIA	2	51	669	0.0	7.1	-7.1	
11	400 kV	BIHARSHARIFF-BALIA	2	227	412	0.0	1.7	-1.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	78	528	0.0	4.8	-4.8	
13	400 kV	BIHARSHARIFF-VARANASI	2	395	300	0.9	0.0	0.9	
14	220 kV	SAHUPURI-KARAMNANA	1	0	184	0.0	3.0	-3.0	
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	62	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>5.7</b>	<b>41.4</b>	<b>-35.6</b>
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1860	0	17.1	0.0	17.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1294	0	15.2	0.0	15.2	
3	765 kV	JHARSUGUDA-DURG	2	0	419	0.0	6.1	-6.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	156	360	0.0	3.7	-3.7	
5	400 kV	RANCHI-SIPAT	2	283	54	2.8	0.0	2.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	140	0	2.5	0.0	2.5	
						<b>ER-WR</b>	<b>37.6</b>	<b>10.8</b>	<b>26.8</b>
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	725	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2795	0.0	52.4	-52.4	
4	400 kV	TALCHER-I/C	2	257	623	3.1	0.0	3.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>0.0</b>	<b>104.5</b>	<b>-104.5</b>
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	186	106	1.1	0.0	1.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	384	187	3.1	0.0	3.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	89	7	1.3	0.0	1.3	
						<b>ER-NER</b>	<b>5.4</b>	<b>0.0</b>	<b>5.4</b>
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	10.3	0.0	10.3	
						<b>NER-NR</b>	<b>10.3</b>	<b>0.0</b>	<b>10.3</b>
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3017	0.0	58.7	-58.7	
2	HVDC	VINDHYACHAL B/B	-	454	55	6.6	0.5	6.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	299	0.0	7.3	-7.3	
4	765 kV	GWALIOR-AGRA	2	0	1640	0.0	23.5	-23.5	
5	765 kV	GWALIOR-PHAGI	2	921	1059	0.0	3.6	-3.6	
6	765 kV	JABALPUR-ORAI	2	0	775	0.0	19.4	-19.4	
7	765 kV	GWALIOR-ORAI	1	546	0	8.6	0.0	8.6	
8	765 kV	SATNA-ORAI	1	0	965	0.0	18.6	-18.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	787	295	8.6	0.0	8.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3302	0.0	60.2	-60.2	
11	400 kV	ZERDA-KANKROLI	1	168	22	2.1	0.0	2.1	
12	400 kV	ZERDA -BHINMAL	1	399	161	4.9	0.0	4.9	
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHUJALPUR	2	549	265	3.9	0.0	3.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3	
17	220 kV	MEHGAON-AURAIYA	1	82	25	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	66	29	0.9	0.0	0.9	
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>58.5</b>	<b>194.1</b>	<b>-135.5</b>
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	506	0.0	12.0	-12.0	
2	HVDC	RAIGARH-PUGALUR	2	0	4013	0.0	71.7	-71.7	
3	765 kV	SOLAPUR-RAICHUR	2	887	1514	0.0	3.3	-3.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2114	0.0	33.7	-33.7	
5	400 kV	KOLHAPUR-KUDGI	2	1267	0	24.1	0.0	24.1	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	132	2.6	0.0	2.6	
						<b>WR-SR</b>	<b>26.7</b>	<b>120.6</b>	<b>-93.8</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)	163	-51	61	1.46	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	288	157	253	6.07	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-269	-43	-222	-5.33	
	NER	132kV GELEPHU-SALAKATI	-17	-5	-6	-0.15	
	NER	132kV MOTANGA-RANGIA	37	13	27	0.65	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-42	-1.02	
	ER	NEPAL IMPORT (FROM BIHAR)	-56	0	-10	-0.24	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-280	14	-153	-3.68	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-819	-899	-21.57	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-693	-381	-520	-12.47	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-121	-2.90	