



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: 17<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 16.05.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-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)	64257	61514	50706	24519	2271	203267
Peak Shortage (MW)	261	0	0	36	17	314
Energy Met (MU)	1398	1481	1199	546	45	4669
Hydro Gen (MU)	205	35	83	53	8	384
Wind Gen (MU)	50	188	89	-	-	327
Solar Gen (MU)*	130.77	65.94	135.75	5.35	0.92	339
Energy Shortage (MU)	10.66	0.32	2.34	0.69	1.22	15.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64645	67555	55920	25851	2557	215113
Time Of Maximum Demand Met	20:48	15:17	15:22	23:41	18:50	15:19

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	0.058	0.24	0.61	8.93	9.79	71.79	18.42

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	9824	0	198.0	81.9	-0.9	98	0.00
	Haryana	9043	875	182.2	123.1	-3.0	188	2.68
	Rajasthan	14278	0	276.9	52.5	-1.7	476	3.82
	Delhi	5691	0	117.7	105.2	-0.3	228	0.00
	UP	23954	120	479.0	209.4	-1.3	359	3.45
	Uttarakhand	2242	0	48.4	30.1	-0.1	84	0.02
	HP	1531	0	31.1	10.5	0.1	119	0.00
	J&K(UT) & Ladakh(UT)	2798	0	55.4	37.9	0.0	166	0.69
	Chandigarh	297	0	5.8	5.6	0.2	32	0.00
	Railways_NR ISTS	177	0	3.8	3.3	0.6	36	0.00
WR	Chhattisgarh	4808	0	108.6	44.7	-1.4	237	0.00
	Gujarat	20697	0	444.4	174.4	-3.0	566	0.00
	MP	11922	0	262.4	141.5	-3.0	306	0.00
	Maharashtra	26818	0	591.1	207.9	-1.8	851	0.32
	Goa	743	0	15.5	15.7	-0.6	52	0.00
	DNHDDPDCL	1231	0	28.5	29.0	-0.5	64	0.00
	AMNSIL	843	0	17.8	10.7	0.0	216	0.00
	BALCO	519	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	11939	0	245.1	92.9	3.4	792	1.52
	Telangana	9521	0	195.9	66.3	0.9	644	0.00
	Karnataka	13477	0	263.6	83.7	3.6	1053	0.82
	Kerala	4862	0	98.0	68.9	0.1	193	0.00
	Tamil Nadu	17618	0	384.9	222.3	5.2	1170	0.00
	Puducherry	488	0	11.1	10.4	0.0	68	0.00
ER	Bihar	6341	0	130.3	120.3	-2.5	156	0.10
	DVC	3657	0	77.5	-45.3	0.6	332	0.00
	Jharkhand	1839	0	33.8	29.1	-3.8	181	0.58
	Odisha	6591	0	118.5	52.6	-3.9	395	0.00
	West Bengal	9528	0	185.1	52.1	-3.1	405	0.00
	Sikkim	77	0	1.0	1.1	-0.1	31	0.00
	Railways_ER ISTS	12	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	151	0	2.6	2.3	0.2	43	0.00
	Assam	1457	0	27.0	22.7	-0.9	55	0.00
	Manipur	167	0	2.2	2.2	0.0	26	0.00
	Meghalaya	329	17	4.4	3.2	-0.1	89	1.22
	Mizoram	111	0	1.6	1.7	-0.3	16	0.00
	Nagaland	146	0	2.4	2.2	-0.1	25	0.00
	Tripura	288	0	5.2	5.5	0.4	63	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.1	-11.4	-21.0	-10.4
Day Peak (MW)	302.1	-586.7	-1106.0	-538.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	229.3	-258.7	137.8	-109.7	1.2	0.0
Actual(MU)	207.9	-254.7	172.9	-132.8	2.2	-4.3
O/D/U/D(MU)	-21.4	4.0	35.1	-23.1	1.0	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3895	9062	5858	1080	425	20320	46
State Sector	5605	10992	6178	710	287	23771	54
Total	9499	20054	12036	1790	712	44091	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	804	1494	660	703	15	3675	73
Lignite	19	17	54	0	0	90	2
Hydro	205	35	83	50	8	381	8
Nuclear	28	45	52	0	0	124	2
Gas, Naptha & Diesel	22	24	6	0	27	79	2
RES (Wind, Solar, Biomass & Others)	192	255	251	5	1	705	14
Total	1270	1870	1104	758	51	5053	100

Share of RES in total generation (%)	15.15	13.66	22.69	0.71	1.81	13.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.49	17.92	34.85	7.28	17.85	23.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.006
Based on State Max Demands	1.050

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215113	15:19	626
Non-Solar hr	207357	22:44	4279

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: 17-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	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	226	439	0.0	4.0	-4.0
4	765 kV	SASARAM-FATEHPUR	1	55	296	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	741	0.0	13.2	-13.2
6	400 kV	PUSAULI-VARANASI	1	0	77	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	93	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	56	713	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	665	0.0	11.5	-11.5
10	400 kV	NAUBATPUR-BALIA	2	0	688	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	16	406	0.0	4.5	-4.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	463	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	129	218	0.0	1.7	-1.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	184	0.0	3.1	-3.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	58	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>0.5</b>	<b>73.7</b>	<b>-73.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1047	483	0.0	1.8	-1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	533	468	2.7	0.0	2.7
3	765 kV	JHARSUGUDA-DURG	2	0	371	0.0	6.6	-6.6
4	400 kV	JHARSUGUDA-RAIGARH	4	84	246	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	156	187	0.2	0.0	0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	99	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	149	0	3.2	0.0	3.2
<b>ER-WR</b>						<b>6.1</b>	<b>11.8</b>	<b>-5.8</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	44.0	-44.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2756	0.0	51.9	-51.9
4	400 kV	TALCHER-I/C	2	225	219	0.4	0.0	0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>108.4</b>	<b>-108.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	210	66	1.7	0.1	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	661	141	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	131	0	1.6	0.0	1.6
<b>ER-NER</b>						<b>8.4</b>	<b>0.1</b>	<b>8.3</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	10.1	0.0	10.1
<b>NER-NR</b>						<b>10.1</b>	<b>0.0</b>	<b>10.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3464	0.0	65.1	-65.1
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	790	0.0	14.7	-14.7
4	765 kV	GWALIOR-AGRA	2	0	1618	0.0	28.2	-28.2
5	765 kV	GWALIOR-PHAGI	2	421	909	0.0	7.5	-7.5
6	765 kV	JABALPUR-ORAI	2	0	721	0.0	22.7	-22.7
7	765 kV	GWALIOR-ORAI	1	547	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	929	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	834	563	7.3	0.0	7.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2646	0.0	51.2	-51.2
11	400 kV	ZERDA-KANKROLI	1	214	78	2.5	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	519	150	6.0	0.0	6.0
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	425	197	2.7	0.0	2.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	70	1	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	52	10	0.4	0.0	0.4
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>62.6</b>	<b>211.8</b>	<b>-149.2</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	304	1009	4.1	6.7	-2.5
2	HVDC	RAIGARH-PUGALUR	2	0	6021	0.0	93.8	-93.8
3	765 kV	SOLAPUR-RAICHUR	2	1075	1972	0.0	4.4	-4.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2520	0.0	35.3	-35.3
5	400 kV	KOLHAPUR-KUDGI	2	1361	0	22.3	0.0	22.3
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	125	2.5	0.0	2.5
<b>WR-SR</b>						<b>29.0</b>	<b>140.1</b>	<b>-111.1</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)	156	31	39	0.93	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	189	99	145	3.48	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-156	-33	-119	-2.85	
	NER	132kV GELEPHU-SALAKATI	-18	0	-8	-0.19	
	NER	132kV MOTANGA-RANGIA	43	7	31	0.75	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-60	-1.45	
	ER	NEPAL IMPORT (FROM BIHAR)	-131	-8	-79	-1.89	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-380	-84	-335	-8.03	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-642	-725	-17.41	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-539	-327	-433	-10.39	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-176	0	-151	-3.62	