



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> June 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 16.06.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-Jun-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)	68603	56049	50105	27243	2407	204407
Peak Shortage (MW)	70	0	0	352	41	463
Energy Met (MU)	1567	1340	1266	627	44	4843
Hydro Gen (MU)	330	36	57	102	30	554
Wind Gen (MU)	52	107	239	-	-	399
Solar Gen (MU)*	92.68	41.12	135.00	2.81	0.45	272
Energy Shortage (MU)	8.84	2.07	0.32	7.75	0.64	19.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70461	58221	58198	28995	2544	211962
Time Of Maximum Demand Met	22:28	01:03	15:29	23:24	19:00	14:43

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	0.057	0.28	1.34	6.76	8.38	69.04	22.58

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	11266	0	219.4	99.5	-1.5	78	0.00
	Haryana	10281	0	223.8	155.8	0.6	281	6.73
	Rajasthan	14445	0	292.3	78.2	-3.5	348	0.46
	Delhi	6587	0	136.8	123.4	-2.2	293	0.00
	UP	27082	0	544.5	253.8	-4.1	454	0.48
	Uttarakhand	2419	60	53.9	26.8	0.6	142	0.52
	HP	1588	0	32.5	0.5	0.5	173	0.00
	J&K(UT) & Ladakh(UT)	2512	0	53.9	26.5	1.6	256	0.65
	Chandigarh	322	0	6.4	6.2	0.2	28	0.00
Railways NR ISTS	186	0	4.0	3.1	0.9	91	0.00	
WR	Chhattisgarh	5156	0	117.0	55.5	1.1	443	0.00
	Gujarat	12469	0	276.5	146.1	-4.2	775	0.00
	MP	11783	0	265.2	142.5	-2.8	506	0.00
	Maharashtra	25925	0	604.2	184.7	2.9	752	2.07
	Goa	702	0	15.3	14.2	0.8	175	0.00
	DNHDDPDCL	1264	0	29.6	29.7	-0.1	75	0.00
	AMNSIL	853	0	19.3	9.4	0.1	234	0.00
	BALCO	520	0	12.4	11.7	0.7	181	0.00
SR	Andhra Pradesh	12738	0	263.8	74.1	1.5	937	0.00
	Telangana	11311	0	225.2	90.4	0.8	494	0.00
	Karnataka	13670	0	276.6	81.2	2.5	984	0.00
	Kerala	4041	0	83.8	55.9	2.8	670	0.00
	Tamil Nadu	18522	0	405.6	166.1	-4.1	512	0.00
	Puducherry	505	0	10.9	9.9	0.3	107	0.32
	Bihar	7071	0	135.0	125.8	-1.6	257	5.53
ER	DVC	3458	0	79.7	-50.4	-0.7	405	0.00
	Jharkhand	1923	0	41.7	31.6	1.2	259	2.22
	Odisha	6097	0	130.2	57.1	-1.0	121	0.00
	West Bengal	11342	0	238.4	105.4	-2.2	258	0.00
	Sikkim	96	0	1.6	1.5	0.1	44	0.00
	Railways ER ISTS	28	0	0.0	0.2	-0.2	9	0.00
	Arunachal Pradesh	139	0	2.7	2.5	-0.2	30	0.00
NER	Assam	1604	0	27.4	21.1	-0.2	128	0.00
	Manipur	161	0	2.2	2.3	-0.1	20	0.00
	Meghalaya	271	41	4.1	1.1	-0.2	48	0.64
	Mizoram	101	0	1.4	1.6	-0.5	0	0.00
	Nagaland	129	0	2.3	2.1	-0.1	7	0.00
	Tripura	220	0	3.9	4.2	-0.4	61	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.2	1.5	-25.2	-18.5
Day Peak (MW)	1953.0	12.3	-1098.0	-894.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.2	-206.3	75.7	-95.0	-21.7	0.0
Actual(MU)	227.6	-205.2	85.0	-87.8	-22.7	-3.0
O/D/U/D(MU)	-19.6	1.0	9.3	7.3	-1.0	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	888	12868	6298	1520	455	22029	49
State Sector	4890	14086	3735	1050	250	24010	51
Total	5778	26953	10033	2570	705	46039	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	851	1390	683	686	16	3626	69
Lignite	26	15	57	0	0	99	2
Hydro	330	36	57	102	30	554	11
Nuclear	29	28	51	0	0	108	2
Gas, Naptha & Diesel	39	46	5	0	29	120	2
RES (Wind, Solar, Biomass & Others)	151	149	402	3	0	705	14
Total	1425	1665	1255	791	75	5212	100

Share of RES in total generation (%)	10.57	8.97	32.01	0.39	0.60	13.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.73	12.78	40.62	13.52	40.10	26.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.079

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211962	14:43	91
Non-Solar hr	211241	22:39	3682

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-Jun-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	501	0.0	4.0	-4.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	287	342	0.0	0.2	-0.2
4	765 kV	SASARAM-FATEHPUR	1	0	507	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	573	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	95	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	70	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	820	0.0	15.5	-15.5
9	400 kV	PATNA-BALIA	2	0	549	0.0	10.4	-10.4
10	400 kV	NAUBATPUR-BALIA	2	0	576	0.0	10.6	-10.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	7.7	-7.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	432	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	36	210	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	204	0.0	3.8	-3.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.9	0.0	0.9
17	132 kV	KARMANASA-SAHUPURI	1	0	66	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>0.9</b>	<b>83.2</b>	<b>-82.3</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	817	618	3.7	0.0	3.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1638	153	23.5	0.0	23.5
3	765 kV	JHARSUGUDA-DURG	2	0	412	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	468	0.0	7.2	-7.2
5	400 kV	RANCHI-SIPAT	2	300	103	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	54	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	140	0	2.1	0.0	2.1
<b>ER-WR</b>						<b>32.5</b>	<b>13.8</b>	<b>18.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	307	265	5.9	0.0	5.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	16	998	0.0	23.6	-23.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3177	0.0	55.7	-55.7
4	400 kV	TALCHER-I/C	2	1404	31	6.4	0.0	6.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>5.9</b>	<b>79.3</b>	<b>-73.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	513	0	7.1	0.0	7.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	611	0	8.9	0.0	8.9
3	220 kV	ALIPURDUAR-SALAKATI	2	110	0	1.5	0.0	1.5
<b>ER-NER</b>						<b>17.6</b>	<b>0.0</b>	<b>17.6</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	251	0.0	6.0	-6.0
<b>NER-NR</b>						<b>0.0</b>	<b>6.0</b>	<b>-6.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3527	0.0	50.1	-50.1
2	HVDC	VINDHYACHAL B/B	-	447	0	10.7	0.0	10.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	298	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1669	0.0	27.6	-27.6
5	765 kV	GWALIOR-PHAGI	2	0	1417	0.0	22.6	-22.6
6	765 kV	JABALPUR-ORAI	2	0	910	0.0	31.2	-31.2
7	765 kV	GWALIOR-ORAI	1	657	0	13.1	0.0	13.1
8	765 kV	SATNA-ORAI	1	0	1033	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1555	0	18.7	0.0	18.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3374	0.0	58.7	-58.7
11	400 kV	ZERDA-KANKROLI	1	290	0	3.7	0.0	3.7
12	400 kV	ZERDA-BHINMAL	1	737	0	10.0	0.0	10.0
13	400 kV	VINDHYACHAL-RIHAND	1	952	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	82	326	0.1	2.6	-2.4
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	116	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	86	0	1.0	0.0	1.0
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>80.5</b>	<b>223.7</b>	<b>-143.1</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	498	313	8.3	1.4	7.0
2	HVDC	RAIGARH-PUGALUR	2	0	4516	0.0	39.6	-39.6
3	765 kV	SOLAPUR-RAICHUR	2	1528	1726	7.5	9.1	-1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2876	0.0	39.2	-39.2
5	400 kV	KOLHAPUR-KUDGI	2	1507	0	27.7	0.0	27.7
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	120	2.3	0.0	2.3
<b>WR-SR</b>						<b>45.9</b>	<b>89.3</b>	<b>-43.3</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)	645	474	575	13.80
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1084	1019	1024	24.57
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	151	109	125	3.00
	NER	132kV GELEPHU-SALAKATI	23	13	18	0.42
	NER	132kV MOTANGA-RANGIA	27	11	15	0.37
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-55	-1.31
	ER	NEPAL IMPORT (FROM BIHAR)	-91	0	-50	-1.20
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	178	120	166	3.99
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-740	-901	-21.62
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-895	-482	-772	-18.53
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-167	0	-149	-3.58