



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: 10<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 09.06.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9<sup>th</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	67027	63465	47588	25154	3133	206367
Peak Shortage (MW)	170	0	0	0	19	189
Energy Met (MU)	1520	1527	1191	615	61	4913
Hydro Gen (MU)	237	32	59	69	9	405
Wind Gen (MU)	48	147	215	-	-	410
Solar Gen (MU)*	134.72	68.25	124.70	3.07	0.85	332
Energy Shortage (MU)	5.61	0.92	0.00	2.53	1.59	10.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70740	69562	56676	29325	3130	223235
Time Of Maximum Demand Met	22:41	15:29	15:16	00:13	19:30	14:52

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	0.045	0.00	0.00	1.91	1.91	69.37	28.72

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	9917	0	208.8	88.9	0.7	433	0.00	
	Haryana	9808	0	208.3	139.9	-6.3	75	0.73	
	Rajasthan	14399	0	295.8	61.6	-2.6	221	0.00	
	Delhi	6387	0	126.4	116.6	-1.9	190	0.00	
	UP	26131	0	535.9	249.9	-1.2	327	0.61	
	Uttarakhand	2381	0	51.7	28.6	-0.3	120	0.43	
	HP	1583	0	32.6	6.4	0.4	118	0.01	
	J&K(UT) & Ladakh(UT)	2298	170	50.1	23.8	1.8	238	3.83	
	Chandigarh	311	0	6.1	5.9	0.2	33	0.00	
	Railways_NR ISTS	189	0	4.1	3.2	0.9	54	0.00	
WR	Chhattisgarh	4877	0	111.7	54.4	-0.9	231	0.00	
	Gujarat	22225	0	462.3	210.4	2.5	944	0.00	
	MP	11428	0	251.2	134.3	-4.1	488	0.00	
	Maharashtra	28165	344	626.3	216.0	0.1	981	0.92	
	Goa	729	0	16.0	15.9	-0.4	108	0.00	
	DNHDDPDCL	1274	0	29.5	29.7	-0.2	75	0.00	
	AMNSIL	774	0	17.1	10.5	-0.1	258	0.00	
	BALCO	517	0	12.4	12.3	0.1	100	0.00	
	SR	Andhra Pradesh	12358	0	249.8	65.0	-0.2	606	0.00
		Telangana	10361	0	204.5	82.3	-0.3	405	0.00
Karnataka		13300	0	256.1	76.8	-1.0	555	0.00	
Kerala		3765	0	80.5	56.7	0.9	492	0.00	
Tamil Nadu		17909	0	389.0	159.7	-1.5	804	0.00	
Puducherry		491	0	11.1	10.4	0.0	50	0.00	
ER	Bihar	6806	0	145.7	135.3	-0.8	272	2.53	
	DVC	3418	0	78.1	-50.8	1.3	332	0.00	
	Jharkhand	1839	0	37.3	36.2	-3.8	297	0.00	
	Odisha	5958	0	133.1	63.1	3.1	855	0.00	
	West Bengal	11416	0	218.9	105.4	-6.0	389	0.00	
	Sikkim	97	0	1.5	1.4	0.1	28	0.00	
	Railways_ER ISTS	29	0	0.2	0.3	-0.1	18	0.00	
NER	Arunachal Pradesh	157	0	2.9	2.4	0.5	54	0.00	
	Assam	2095	0	40.7	35.3	-0.5	236	0.51	
	Manipur	160	0	2.3	2.4	-0.1	13	0.00	
	Meghalaya	318	19	4.7	3.4	-0.3	90	1.08	
	Mizoram	106	0	1.8	1.7	-0.2	17	0.00	
	Nagaland	161	0	2.9	2.6	-0.1	6	0.00	
	Tripura	282	0	5.4	5.5	0.2	85	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.4	-7.9	-24.7	-24.2
Day Peak (MW)	396.0	-583.1	-1094.0	-1228.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	257.9	-248.7	33.7	-62.3	19.4	0.0
Actual(MU)	234.9	-252.1	50.2	-57.1	18.1	-6.0
O/D/U/D(MU)	-23.0	-3.4	16.5	5.3	-1.3	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1976	7885	5268	1130	818	17077	44
State Sector	4465	9944	5098	2210	286	22003	56
Total	6441	17829	10366	3340	1104	39079	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	845	1542	688	687	18	3780	71
Lignite	23	19	57	0	0	100	2
Hydro	237	32	59	69	9	405	8
Nuclear	29	32	45	0	0	106	2
Gas, Naptha & Diesel	47	75	6	0	22	151	3
RES (Wind, Solar, Biomass & Others)	189	216	360	3	1	770	15
Total	1371	1916	1216	759	50	5312	100

Share of RES in total generation (%)	13.80	11.29	29.62	0.46	1.71	14.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.20	14.62	38.17	9.70	19.08	24.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
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	223235	14:52	339
Non-Solar hr	214227	22:44	942

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: **10-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	448	482	0.8	0.0	0.8
4	765 kV	SASARAM-FATEHPUR	1	127	317	0.0	2.9	-2.9
5	765 kV	GAYA-BALIA	1	0	748	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	112	0.0	1.7	-1.7
7	400 kV	PUSAULI -ALLAHABAD	1	7	77	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	228	690	0.0	5.0	-5.0
9	400 kV	PATNA-BALIA	2	0	535	0.0	7.0	-7.0
10	400 kV	NAUBATPUR-BALIA	2	0	548	0.0	7.9	-7.9
11	400 kV	BIHARSHARIFF-BALIA	2	182	293	0.0	0.4	-0.4
12	400 kV	MOTTHARI-GORAKHPUR	2	62	414	0.0	5.2	-5.2
13	400 kV	BIHARSHARIFF-VARANASI	2	215	211	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	196	0.0	3.5	-3.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	67	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>1.6</b>	<b>49.3</b>	<b>-47.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1269	242	12.5	0.0	12.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1900	0	30.0	0.0	30.0
3	765 kV	JHARSUGUDA-DURG	2	117	496	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	219	344	0.0	0.4	-0.4
5	400 kV	RANCHI-SIPAT	2	411	50	5.5	0.0	5.5
6	220 kV	BUDHIPADAR-RAIGARH	1	43	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	304	0	2.8	0.0	2.8
<b>ER-WR</b>						<b>50.7</b>	<b>5.7</b>	<b>45.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	15.0	-15.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	994	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2692	0.0	40.5	-40.5
4	400 kV	TALCHER-I/C	2	425	0	8.2	0.0	8.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>79.6</b>	<b>-79.6</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	40	249	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	102	334	0.0	4.2	-4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	24	74	0.0	1.0	-1.0
<b>ER-NER</b>						<b>0.0</b>	<b>8.1</b>	<b>-8.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	385	0	9.1	0.0	9.1
<b>NER-NR</b>						<b>9.1</b>	<b>0.0</b>	<b>9.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5037	0.0	86.8	-86.8
2	HVDC	VINDHYACHAL B/B	-	441	0	9.5	0.0	9.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	495	0.0	9.6	-9.6
4	765 kV	GWALIOR-AGRA	2	0	2319	0.0	36.9	-36.9
5	765 kV	GWALIOR-PHAGI	2	123	1128	0.0	12.2	-12.2
6	765 kV	JABALPUR-ORAI	2	0	1098	0.0	32.3	-32.3
7	765 kV	GWALIOR-ORAI	1	578	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	1	0	991	0.0	20.3	-20.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1174	339	11.0	0.0	11.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3438	0.0	65.2	-65.2
11	400 kV	ZERDA-KANKROLI	1	273	30	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	567	0	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	232	392	0.0	0.4	-0.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	95	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	68	0	0.7	0.0	0.7
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>64.0</b>	<b>266.0</b>	<b>-202.0</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	994	0	11.8	0.0	11.8
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	29.6	-29.6
3	765 kV	SOLAPUR-RAICHUR	2	1887	1113	12.4	0.0	12.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2578	0.0	31.2	-31.2
5	400 kV	KOLHAPUR-KUDGI	2	1705	0	29.9	0.0	29.9
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	121	2.1	0.0	2.1
<b>WR-SR</b>						<b>56.2</b>	<b>60.8</b>	<b>-4.5</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)	147	-10	112	2.68
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	166	38	122	2.93
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-116	-19	-57	-1.36
	NER	132kV GELEPHU-SALAKATI	9	-2	2	0.05
	NER	132kV MOTANGA-RANGIA	56	29	44	1.05
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-63	-1.52
	ER	NEPAL IMPORT (FROM BIHAR)	-157	-26	-75	-1.79
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-351	0	-190	-4.57
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-813	-898	-21.56
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1228	-670	-1008	-24.19
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-130	-3.12