



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: 30<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 29.06.2023.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जून-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 29<sup>th</sup> June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-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)	64990	51080	44854	24564	3104	188592
Peak Shortage (MW)	0	0	0	0	20	20
Energy Met (MU)	1480	1204	1107	504	61	4356
Hydro Gen (MU)	399	38	35	125	24	622
Wind Gen (MU)	20	156	218	-	-	395
Solar Gen (MU)*	121.70	34.81	106.65	2.11	0.84	266
Energy Shortage (MU)	0.00	0.00	0.00	0.04	0.87	0.91
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67566	53231	52510	24990	3128	190460
Time Of Maximum Demand Met	00:00	07:18	11:56	21:02	20:56	11:48

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	0.073	0.00	0.19	6.19	6.38	66.50	27.13

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	14091	0	308.6	199.6	-0.9	105	0.00
	Haryana	9901	0	209.5	161.9	0.4	271	0.00
	Rajasthan	11607	0	252.5	84.4	-2.0	359	0.00
	Delhi	5651	0	115.6	111.3	-1.4	234	0.00
	UP	22990	0	450.9	222.1	-3.5	534	0.00
	Uttarakhand	2101	0	46.3	17.1	-2.6	43	0.00
	HP	1657	0	34.2	-9.0	-0.5	110	0.00
	J&K(UT) & Ladakh(UT)	3636	0	53.1	27.1	-0.5	394	0.00
	Chandigarh	287	0	6.0	6.2	-0.2	18	0.00
Railways_NR ISTS	183	0	4.0	3.6	0.4	36	0.00	
WR	Chhattisgarh	4351	0	93.6	41.7	0.9	354	0.00
	Gujarat	15694	0	346.3	176.3	-4.8	760	0.00
	MP	9265	0	202.1	87.6	-3.0	425	0.00
	Maharashtra	21705	0	488.5	157.2	-1.3	692	0.00
	Goa	593	0	12.6	12.5	-0.3	52	0.00
	DNHDDPDCL	1264	0	29.0	29.0	0.0	93	0.00
	AMNSIL	843	0	19.2	10.0	-0.1	315	0.00
	BALCO	520	0	12.4	12.5	-0.1	2	0.00
SR	Andhra Pradesh	11298	0	235.5	61.0	-0.4	977	0.00
	Telangana	9187	0	188.4	81.5	0.1	577	0.00
	Karnataka	12890	0	228.6	62.7	-2.4	640	0.00
	Kerala	3505	0	71.4	61.5	1.1	280	0.00
	Tamil Nadu	17376	0	372.5	157.5	-2.4	618	0.00
	Puducherry	455	0	10.4	10.1	-0.5	41	0.00
ER	Bihar	5849	0	104.3	98.0	-2.9	254	0.04
	DVC	3514	0	74.5	-28.2	0.9	166	0.00
	Jharkhand	1580	0	31.7	22.9	-0.1	193	0.00
	Odisha	5514	0	116.1	39.4	-1.7	233	0.00
	West Bengal	8265	0	176.3	53.7	-0.5	261	0.00
	Sikkim	82	0	1.2	1.5	-0.3	8	0.00
	Railways_ER ISTS	20	0	0.2	0.2	0.0	12	0.00
NER	Arunachal Pradesh	160	0	2.9	2.8	-0.1	20	0.00
	Assam	2108	0	40.8	34.3	0.4	141	0.00
	Manipur	172	0	2.5	2.5	0.1	30	0.00
	Meghalaya	326	5	5.5	2.4	0.0	59	0.87
	Mizoram	119	0	1.8	1.6	-0.2	15	0.00
	Nagaland	157	0	2.8	2.5	-0.2	8	0.00
	Tripura	285	0	4.7	4.2	0.3	86	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.6	6.9	-20.1	-11.3
Day Peak (MW)	1949.9	289.1	-1092.0	-562.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	326.0	-219.8	47.0	-158.5	5.3	0.0
Actual(MU)	290.3	-208.7	73.6	-169.2	8.9	-5.2
O/D/U/D(MU)	-35.7	11.2	26.6	-10.8	3.5	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4389	13216	4648	1985	818	25056	45
State Sector	8605	15653	4608	1950	305	31120	55
Total	12994	28869	9256	3935	1122	56175	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	657	1224	613	609	12	3115	66
Lignite	28	14	56	0	0	98	2
Hydro	399	38	35	125	24	622	13
Nuclear	29	47	46	0	0	122	3
Gas, Naptha & Diesel	16	7	6	0	22	51	1
RES (Wind, Solar, Biomass & Others)	149	192	348	3	1	692	15
Total	1278	1522	1105	737	58	4701	100

Share of RES in total generation (%)	11.62	12.63	31.48	0.37	1.44	14.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.17	18.23	38.84	17.37	42.32	30.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.098

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	190460	11:48	57
Non-Solar hr	190222	20:48	20

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: 30-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	1502	0.0	37.0	-37.0
2	HVDC	PUSAULI B/B	-	1	97	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	312	615	0.0	4.0	-4.0
4	765 kV	SASARAM-FATEHPUR	1	1	307	0.0	4.2	-4.2
5	765 kV	GAYA-BALIA	1	0	802	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	46	103	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	89	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	899	0.0	15.8	-15.8
9	400 kV	PATNA-BALIA	2	0	748	0.0	12.4	-12.4
10	400 kV	NAUBATPUR-BALIA	2	0	805	0.0	11.9	-11.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	422	0.0	5.7	-5.7
12	400 kV	MOTTHARI-GORAKHPUR	2	0	577	0.0	9.9	-9.9
13	400 kV	BIHARSHARIFF-VARANASI	2	126	285	0.0	2.4	-2.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	95	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	47	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>120.7</b>	<b>-120.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1168	275	11.1	0.0	11.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1010	253	12.5	0.0	12.5
3	765 kV	JHARSUGUDA-DURG	2	17	314	0.0	3.6	-3.6
4	400 kV	JHARSUGUDA-RAIGARH	4	143	217	0.0	0.8	-0.8
5	400 kV	RANCHI-SIPAT	2	215	93	0.0	0.5	-0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	106	0	1.8	0.0	1.8
<b>ER-WR</b>						<b>25.4</b>	<b>6.6</b>	<b>18.8</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	234	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	33.4	-33.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3262	0.0	45.9	-45.9
4	400 kV	TALCHER-I/C	2	261	1239	0.0	5.6	-5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>84.4</b>	<b>-84.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	466	0.0	8.5	-8.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	135	350	0.0	4.5	-4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	112	0.0	1.8	-1.8
<b>ER-NER</b>						<b>0.0</b>	<b>14.8</b>	<b>-14.8</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	307	0.0	7.4	-7.4
<b>NER-NR</b>						<b>0.0</b>	<b>7.4</b>	<b>-7.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4526	0.0	74.3	-74.3
2	HVDC	VINDHYACHAL B/B	-	444	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	4.1	0.0	4.1
4	765 kV	GWALIOR-AGRA	2	11	2417	0.0	30.9	-30.9
5	765 kV	GWALIOR-PHAGI	2	557	1498	1.7	17.6	-15.9
6	765 kV	JABALPUR-ORAI	2	0	1117	0.0	30.9	-30.9
7	765 kV	GWALIOR-ORAI	1	537	0	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	1122	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1198	1000	8.5	3.7	4.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3075	0.0	51.5	-51.5
11	400 kV	ZERDA-KANKROLI	1	210	105	2.0	0.3	1.8
12	400 kV	ZERDA -BHINMAL	1	484	98	5.0	0.2	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	20.2	0.0	20.2
14	400 kV	RAPP-SHUJALPUR	2	372	572	2.1	4.5	-2.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	73	1	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	48	20	0.3	0.1	0.2
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>66.1</b>	<b>236.7</b>	<b>-170.6</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	996	0	12.1	0.0	12.1
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	30.4	-30.4
3	765 kV	SOLAPUR-RAICHUR	2	2027	2006	14.1	6.0	8.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3149	0.0	34.9	-34.9
5	400 kV	KOLHAPUR-KUDGI	2	1573	0	23.7	0.0	23.7
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	117	2.2	0.0	2.2
<b>WR-SR</b>						<b>52.0</b>	<b>71.3</b>	<b>-19.2</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)	622	439	541	12.99	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1023	572	938	22.50	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	147	104	120	2.87	
	NER	132kV GELEPHU-SALAKATI	33	6	21	0.51	
	NER	132kV MOTANGA-RANGIA	81	5	30	0.73	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-38	-0.92	
	ER	NEPAL IMPORT (FROM BIHAR)	-32	0	-8	-0.19	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	393	250	332	7.96	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-598	-720	-17.28	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-562	-343	-469	-11.25	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-155	0	-119	-2.86	