

National Load Despatch Centre  
राष्ट्रीय भार प्रेषण केंद्र  
GRID CONTROLLER OF INDIA LIMITED  
ग्रिड 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: 08<sup>th</sup> October 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 07.10.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-अक्टूबर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 07<sup>th</sup> October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-Oct-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)	61256	63450	48024	24435	2945	200110
Peak Shortage (MW)	2748	263	1580	1126	90	5807
Energy Met (MU)	1398	1433	1230	546	56	4662
Hydro Gen (MU)	205	85	102	86	33	511
Wind Gen (MU)	46	65	34	-	-	146
Solar Gen (MU)*	135.87	66.40	123.92	2.77	0.54	330
Energy Shortage (MU)	18.21	1.58	28.84	5.83	0.30	54.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64234	66079	60748	24928	3041	211534
Time Of Maximum Demand Met	12:55	18:47	10:43	20:38	17:55	11:35

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	0.119	3.60	5.43	12.08	21.11	69.95	8.95

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	10998	0	215.4	93.7	-0.3	262	0.00
	Haryana	9789	0	201.8	135.4	-0.8	185	3.00
	Rajasthan	14463	0	304.0	58.3	-2.2	397	0.00
	Delhi	4861	0	103.8	84.4	0.2	226	0.00
	UP	19623	762	437.3	161.0	0.2	1580	11.66
	Uttarakhand	2162	0	44.5	28.6	0.7	170	1.03
	HP	1767	0	35.0	16.6	1.8	208	0.03
	J&K(UT) & Ladakh(UT)	2354	230	48.1	31.7	4.9	571	2.49
	Chandigarh	246	0	4.8	4.8	0.1	43	0.00
	Railways NR ISTS	155	0	3.2	3.1	0.0	47	0.00
WR	Chhattisgarh	4840	0	109.8	56.4	0.5	288	1.58
	Gujarat	20487	0	420.6	156.1	-0.2	813	0.00
	MP	12603	0	275.3	151.5	-4.4	416	0.00
	Maharashtra	24966	0	551.1	199.4	-4.3	974	0.00
	Goa	703	0	14.1	12.0	1.6	121	0.00
	DNHDDPDCL	1297	0	30.1	29.4	0.7	91	0.00
	AMNSIL	865	0	19.1	6.3	0.0	365	0.00
	BALCO	523	0	12.5	12.6	-0.1	5	0.00
SR	Andhra Pradesh	11865	0	240.5	128.0	0.1	512	0.00
	Telangana	14799	0	286.9	143.1	0.9	944	0.00
	Karnataka	15111	850	245.1	74.6	6.5	1203	28.65
	Kerala	4011	0	82.0	54.3	1.7	439	0.19
	Tamil Nadu	17023	0	365.2	202.4	0.8	765	0.00
	Puducherry	424	0	10.2	8.9	0.6	88	0.00
	Bihar	6079	440	122.4	110.0	2.2	442	4.03
ER	DVC	3161	0	72.0	-30.5	0.1	446	0.00
	Jharkhand	1619	167	34.2	23.4	-0.8	185	1.74
	Odisha	5906	0	130.8	54.2	1.1	357	0.07
	West Bengal	8792	0	185.7	74.8	-1.5	114	0.00
	Sikkim	67	0	0.9	0.9	0.0	13	0.00
	Railways ER ISTS	20	0	0.1	0.1	0.0	11	0.00
	Arunachal Pradesh	159	0	3.0	2.4	0.2	30	0.00
NER	Assam	1913	30	34.7	25.8	1.0	173	0.15
	Manipur	187	0	2.6	2.7	-0.1	22	0.00
	Meghalaya	322	0	5.7	1.2	-0.3	22	0.15
	Mizoram	123	0	2.1	1.1	-0.6	20	0.00
	Nagaland	155	0	2.7	2.3	0.0	5	0.00
	Tripura	295	0	5.2	5.2	0.1	35	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.3	16.2	-24.4	-22.5
Day Peak (MW)	1713.3	622.0	-1064.0	-1744.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.9	-299.5	377.6	-80.3	-18.9	188.8
Actual(MU)	200.8	-316.6	544.9	-84.2	-14.7	330.1
O/D/U/D(MU)	-9.2	-17.1	167.3	-3.9	4.2	141.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4278	12226	7298	4066	355	28222	55
State Sector	6156	7209	6171	3310	129	22975	45
Total	10434	19435	13469	7376	484	51197	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	804	1523	716	590	17	3650	73
Lignite	24	14	39	0	0	77	2
Hydro	205	85	102	86	33	511	10
Nuclear	25	53	46	0	0	124	2
Gas, Naptha & Diesel	38	71	6	0	28	143	3
RES (Wind, Solar, Biomass & Others)	187	134	188	4	1	514	10
Total	1284	1881	1096	680	78	5019	100

Share of RES in total generation (%)	14.60	7.12	17.14	0.62	0.69	10.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.49	14.46	30.64	13.33	43.00	22.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.062

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211534	11:35	1284
Non-Solar hr	201811	19:15	5807

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: 08-Oct-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	12.2	-12.2
2	HVDC	PUSAULI B/B	-	1	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	154	161	0.0	0.2	-0.2
4	765 kV	SASARAM-FATEHPUR	1	0	247	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	465	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	7	82	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	7	69	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	574	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	305	0.0	5.6	-5.6
10	400 kV	NAUBATPUR-BALIA	2	0	316	0.0	5.1	-5.1
11	400 kV	BIHARSHARIFF-BALIA	2	104	119	0.0	0.4	-0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	269	0.0	4.2	-4.2
13	400 kV	BIHARSHARIFF-VARANASI	2	125	55	0.9	0.0	0.9
14	220 kV	SAHUPURI-KARAMNANA	1	18	60	0.0	0.6	-0.6
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	0	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>1.3</b>	<b>52.5</b>	<b>-51.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1289	0	18.6	0.0	18.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	959	141	11.3	0.0	11.3
3	765 kV	JHARSUGUDA-DURG	2	0	281	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	48	263	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	198	53	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	112	0	1.5	0.0	1.5
<b>ER-WR</b>						<b>33.1</b>	<b>8.0</b>	<b>25.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	767	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1740	0.0	42.1	-42.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2553	0.0	45.8	-45.8
4	400 kV	TALCHER-I/C	2	159	270	2.4	0.0	2.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>102.6</b>	<b>-102.6</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	94	243	0.0	1.0	-1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	195	275	0.3	0.0	0.3
3	220 kV	ALIPURDUAR-SALAKATI	2	33	66	0.0	0.1	-0.1
<b>ER-NER</b>						<b>0.3</b>	<b>1.1</b>	<b>-0.8</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.9	-16.9
<b>NER-NR</b>						<b>0.0</b>	<b>16.9</b>	<b>-16.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2500	0.0	59.8	-59.8
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	336	1216	0.3	15.7	-15.4
5	765 kV	GWALIOR-PHAGI	2	685	927	3.1	8.7	-5.6
6	765 kV	JABALPUR-ORAI	2	0	590	0.0	12.8	-12.8
7	765 kV	GWALIOR-ORAI	1	530	0	8.1	0.0	8.1
8	765 kV	SATNA-ORAI	1	0	886	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1270	211	10.1	0.0	10.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2345	0.0	40.8	-40.8
11	400 kV	ZERDA-KANKROLI	1	240	44	2.2	0.1	2.1
12	400 kV	ZERDA -BHINMAL	1	703	80	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	941	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	457	293	1.8	0.0	1.8
15	220 kV	BHANPURA-RANPUR	1	0	147	0.0	2.0	-2.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	160	0	2.6	0.0	2.6
18	220 kV	MALANPUR-AURAIYA	1	124	0	1.9	0.0	1.9
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>60.1</b>	<b>195.4</b>	<b>-135.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	91.8	-91.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1956	0.0	16.5	-16.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2898	0.0	45.7	-45.7
5	400 kV	KOLHAPUR-KUDGI	2	1277	0	19.2	0.0	19.2
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	1	125	2.1	0.0	2.1
<b>WR-SR</b>						<b>21.2</b>	<b>178.0</b>	<b>-156.8</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)	486	333	398	9.55	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1032	962	970	23.29	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	63	25	63	1.99	
	NER	132kV GELEPHU-SALAKATI	59	0	47	1.12	
	NER	132kV MOTANGA-RANGIA	20	0	15	0.35	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-50	0	55	1.31	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	672	536	619	14.86	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-906	-804	-875	-20.99	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1744	0	-939	-22.53	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-142	-3.40	

