



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: 11<sup>th</sup> January 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 10.01.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10- जनवरी -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 10<sup>th</sup> January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-Jan-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 19:00 hrs; from RLDCs)	54498	60027	43251	19633	2664	180073
Peak Shortage (MW)	3119	0	0	1366	19	4504
Energy Met (MU)	1216	1443	1048	422	48	4177
Hydro Gen (MU)	113	51	102	34	9	309
Wind Gen (MU)	4	40	50	-	-	95
Solar Gen (MU)*	107.37	55.05	128.15	5.23	0.83	297
Energy Shortage (MU)	46.33	0.00	0.00	7.59	0.20	54.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60946	69937	55522	20752	2778	205291
Time Of Maximum Demand Met (From NLDC SCADA)	12:50	10:16	10:15	18:00	17:45	10:28

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	0.103	1.08	3.37	12.31	16.76	56.75	26.49

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	8465	0	153.6	37.8	0.0	143	0.00
	Haryana	8138	255	151.3	80.9	1.3	252	8.16
	Rajasthan	15983	546	296.3	105.3	2.5	284	29.85
	Delhi	5385	0	88.1	77.8	-1.7	339	0.00
	UP	19900	102	380.1	120.2	-1.3	424	3.73
	Uttarakhand	2317	150	42.0	29.6	0.4	173	3.54
	HP	1974	0	35.4	28.7	0.1	120	0.00
	J&K(UT) & Ladakh(UT)	2989	0	63.6	61.4	-1.8	152	1.05
	Chandigarh	314	0	5.3	5.1	0.2	86	0.00
	Chhattisgarh	4936	0	105.9	50.2	-0.4	233	0.00
WR	Gujarat	18734	0	397.5	207.6	-2.3	780	0.00
	MP	16996	0	329.3	189.8	0.0	502	0.00
	Maharashtra	26901	0	543.4	172.8	0.5	600	0.00
	Goa	631	0	12.3	12.0	-0.2	58	0.00
	DNHDDPDCL	1235	0	28.4	28.4	0.0	65	0.00
	AMNSIL	774	0	13.9	10.6	-2.4	271	0.00
	BALCO	519	0	12.4	12.6	-0.2	2	0.00
	Andhra Pradesh	10630	0	195.3	79.1	-0.9	304	0.00
	Telangana	13313	0	228.5	90.8	-0.3	529	0.00
	Karnataka	13179	0	236.9	66.3	1.2	539	0.00
SR	Kerala	3918	0	77.0	53.7	0.3	261	0.00
	Tamil Nadu	16063	0	302.5	167.2	0.6	1268	0.00
	Puducherry	406	0	8.0	8.2	-0.2	27	0.00
	Bihar	5080	141	98.7	87.1	-0.2	172	3.78
	DVC	3589	0	73.0	47.3	-0.4	273	0.00
	Jharkhand	1623	0	29.0	21.5	-1.4	84	3.81
	Odisha	4604	0	87.7	27.5	-5.1	410	0.00
	West Bengal	6564	0	131.9	-1.8	-1.9	370	0.00
	Sikkim	126	0	2.0	2.0	0.0	46	0.00
	NER	Arunachal Pradesh	160	0	2.7	2.4	0.1	43
Assam		1548	0	26.7	19.7	0.3	137	0.05
Manipur		234	0	3.2	3.2	0.1	33	0.08
Meghalaya		395	0	7.2	5.8	-0.1	48	0.07
Mizoram		134	0	2.1	1.6	-0.1	26	0.00
Nagaland		137	0	2.0	1.8	0.0	44	0.00
Tripura		229	0	3.8	1.7	0.5	102	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.4	-8.5	-16.0
Day Peak (MW)	-168.0	-534.9	-1047.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.6	-118.2	102.5	-163.7	0.8	0.0
Actual(MU)	183.6	-120.6	100.9	-172.4	3.0	-5.4
O/D/U/D(MU)	5.0	-2.4	-1.6	-8.7	2.3	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5920	12915	7948	3130	1495	31409	51
State Sector	7860	12831	6995	2488	98	30271	49
Total	13780	25746	14943	5618	1593	61679	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	803	1468	582	616	16	3485	71
Lignite	31	13	52	0	0	96	2
Hydro	113	51	102	34	9	309	6
Nuclear	26	37	60	0	0	123	3
Gas, Naptha & Diesel	18	14	5	0	25	62	9
RES (Wind, Solar, Biomass & Others)	139	98	205	6	1	447	9
Total	1130	1680	1006	655	51	4523	100

Share of RES in total generation (%)	12.26	5.81	20.37	0.89	1.63	9.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.61	11.05	36.48	6.02	19.80	19.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.063

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

\*\*Note: All generation MU figures are gross

Executive Director-NLDC

**INTER-REGIONAL EXCHANGES**

Import=(+ve)/Export=(-ve) for NET (MU)

Date of Reporting: 11-Jan-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	296	0.0	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	926	0.0	15.8	-15.8	
4	765 kV	SASARAM-FAITEHPUR	1	0	365	0.0	0.5	-0.5	
5	765 kV	GAYA-BALIA	1	0	785	0.0	14.2	-14.2	
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	170	0.0	3.3	-3.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	726	0.0	10.5	-10.5	
9	400 kV	PATNA-BALIA	2	0	528	0.0	10.9	-10.9	
10	400 kV	NAIBATTI-BALIA	2	0	567	0.0	10.9	-10.9	
11	400 kV	BIHARSHARIFE-BALIA	2	0	475	0.0	7.7	-7.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	412	0.0	6.7	-6.7	
13	400 kV	BIHARSHARIFE-VARANASI	2	3	279	0.0	0.4	-0.4	
14	220 kV	SAHUPUR-BAKAMANASA	1	8	143	0.0	1.6	-1.6	
15	132 kV	NAGARHAT-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	4	46	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						<b>ER-NR</b>	<b>0.4</b>	<b>99.8</b>	<b>-99.4</b>
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	504	1149	0.0	10.5	-10.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	501	872	0.0	4.4	-4.4	
3	765 kV	JHARSUGUDA-DURG	2	0	519	0.0	9.2	-9.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	619	0.0	11.3	-11.3	
5	400 kV	RANCHI-SIPAT	2	69	302	0.0	2.5	-2.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	158	0.0	3.1	-3.1	
7	220 kV	BUDHIPADAR-KORBA	2	50	110	0.0	1.1	-1.1	
						<b>ER-WR</b>	<b>0.0</b>	<b>41.9</b>	<b>-41.9</b>
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	12.7	-12.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	12	192	0.0	16.1	-16.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3297	0.0	51.6	-51.6	
4	400 kV	TALCHER-I/C	2	1432	692	16.5	0.0	16.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>0.0</b>	<b>80.4</b>	<b>-80.4</b>
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	148	76	1.6	0.1	1.5	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	526	105	6.9	0.0	6.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	51	21	0.6	0.0	0.6	
						<b>ER-NER</b>	<b>9.1</b>	<b>0.1</b>	<b>9.0</b>
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.8	0.0	11.8	
						<b>NER-NR</b>	<b>11.8</b>	<b>0.0</b>	<b>11.8</b>
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2022	0.0	47.8	-47.8	
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4	
3	HVDC	MUNDRA-MOHENDERGARH	2	251	0	5.9	0.0	5.9	
4	765 kV	GWALIOR-AGRA	2	102	1751	0.0	22.5	-22.4	
5	765 kV	GWALIOR-PHAGI	2	0	1943	0.0	32.7	-32.7	
6	765 kV	JABALPUR-ORAI	2	0	1093	0.0	30.0	-30.0	
7	765 kV	GWALIOR-ORAI	1	915	0	16.8	0.0	16.8	
8	765 kV	SATNA-ORAI	1	0	1016	0.0	17.8	-17.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1818	0	27.5	0.0	27.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2581	0.0	32.7	-32.7	
11	400 kV	ZERDA-KANKROLI	1	242	0	3.3	0.0	3.3	
12	400 kV	ZERDA-BHINMAL	1	479	131	4.1	0.0	4.1	
13	400 kV	VINDHYACHAL-RIHAND	1	959	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHUJALPUR	2	294	479	1.7	2.5	-0.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
17	220 kV	MEHGAON-AURAIYA	1	123	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	100	0	1.6	0.0	1.6	
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>84.0</b>	<b>190.2</b>	<b>-106.2</b>
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	14.5	-14.5	
2	HVDC	RAIGARH-PUGALUR	-	572	3002	0.0	23.5	-23.5	
3	765 kV	SOLAPUR-RAICHUR	2	1350	1933	3.5	8.7	-5.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	3169	0.0	34.6	-34.6	
5	400 kV	KOLHAPUR-KUDGI	2	1402	0	20.3	0.0	20.3	
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	75	1.3	0.0	1.3	
						<b>WR-SR</b>	<b>25.1</b>	<b>81.3</b>	<b>-56.2</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 12&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	0	0	0	-1.59
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	176	0	88	2.10
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.49
	NER	132kV GELEPHU-SALAKATI	-25	-6	-14	-0.35
	NER	132kV MOTANGA-RANGIA	-14	0	-2	-0.04
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	-93	-3	-37	-0.88
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-367	-15	-257	-6.16
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-933	-497	-571	-13.70
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-94	-2.26