



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: 04<sup>th</sup> February 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 03.02.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03- फ़रवरी-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 03<sup>rd</sup> February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-Feb-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)	51378	59478	43651	20736	2584	177827
Peak Shortage (MW)	496	0	0	369	0	865
Energy Met (MU)	1116	1406	1103	437	46	4108
Hydro Gen (MU)	120	37	74	32	8	271
Wind Gen (MU)	11	44	63	-	-	119
Solar Gen (MU)*	126.77	63.12	111.17	6.20	0.75	308
Energy Shortage (MU)	2.27	0.00	0.00	3.27	0.00	5.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58449	67032	56994	21479	2703	202759
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	10:46	11:56	18:40	17:54	10:17

**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	0.097	0.91	2.64	10.58	14.13	58.81	27.06

**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	7573	0	147.8	51.6	-0.3	190	0.60
	Haryana	7488	0	142.1	64.8	0.9	208	0.00
	Rajasthan	15735	0	283.2	85.2	-0.2	223	0.52
	Delhi	4584	0	75.5	68.0	-1.6	190	0.00
	UP	17468	18	323.1	85.2	-0.6	323	0.20
	Uttarakhand	2218	150	42.5	33.6	0.1	93	0.82
	HP	1977	0	34.1	27.1	0.2	91	0.00
	J&K(UT) & Ladakh(UT)	2926	0	63.8	60.2	-1.9	172	0.13
WR	Chhattisgarh	251	0	3.8	3.9	-0.2	15	0.00
	Chhattisgarh	5081	0	107.9	59.2	0.3	214	0.00
	Gujarat	17661	0	375.9	225.5	0.5	803	0.00
	MP	15101	0	288.9	168.3	-4.0	523	0.00
	Maharashtra	26991	0	559.9	179.3	-1.3	633	0.00
	Goa	670	0	14.5	13.0	1.2	51	0.00
	DNHDDPDCL	1229	0	28.3	28.4	-0.1	71	0.00
	AMNSIL	781	0	17.8	10.8	0.0	208	0.00
SR	BALCO	515	0	12.3	12.4	-0.1	10	0.00
	Andhra Pradesh	11535	0	212.1	78.9	-0.9	436	0.00
	Telangana	13786	0	245.9	117.4	0.3	1281	0.00
	Karnataka	14503	0	258.6	87.0	-1.0	635	0.00
	Kerala	3895	0	78.4	60.5	0.0	258	0.00
	Tamil Nadu	14978	0	299.4	173.8	-2.2	652	0.00
	Puducherry	379	0	8.4	8.5	-0.8	75	0.00
	Bihar	4933	0	91.3	79.1	-0.1	145	0.35
ER	DVC	3397	0	72.8	-54.0	-0.6	252	0.00
	Jharkhand	1576	0	27.2	22.0	-2.4	108	2.92
	Odisha	4841	0	97.1	26.8	-2.7	207	0.00
	West Bengal	7268	0	146.7	10.0	-3.4	136	0.00
	Sikkim	119	0	1.9	1.5	0.4	59	0.00
NER	Arunachal Pradesh	148	0	2.5	2.8	-0.4	15	0.00
	Assam	1497	0	26.2	20.3	-0.1	144	0.00
	Manipur	215	0	3.1	3.1	0.0	27	0.00
	Meghalaya	380	0	6.8	6.2	-0.3	30	0.00
	Mizoram	127	0	2.0	1.6	-0.1	5	0.00
	Nagaland	141	0	2.1	2.1	-0.1	14	0.00
Tripura	237	0	3.9	2.2	-0.1	47	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.7	-11.1	-18.8
Day Peak (MW)	-243.8	-532.7	-1046.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	121.9	-76.7	137.8	-181.3	-1.8	0.0
Actual(MU)	115.3	-69.9	135.9	-183.8	-1.7	-4.3
O/D/U/D(MU)	-6.7	6.8	1.9	-2.5	0.1	-4.3

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7740	12525	6488	2135	549	29436	49
State Sector	8925	15806	4333	1672	78	30813	51
Total	16665	28330	10821	3807	627	60249	100

**G. Sourcewise generation (Gross) (MU)**

	NR	WR	SR	ER	NER	All India	% Share
Coal	730	1366	625	653	16	3390	76
Lignite	33	21	62	0	0	116	3
Hvdro	120	37	74	32	8	271	6
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	12	17	6	0	31	66	1
RES (Wind, Solar, Biomass & Others)	165	109	197	7	1	479	11
Total	1087	1588	1040	692	55	4461	100
Share of RES in total generation (%)	15.21	6.88	18.91	1.00	1.35	10.74	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.69	11.52	33.39	5.58	16.34	19.94	

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.019
Based on State Max Demands	1.047

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: 04-Feb-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	PUSALI-BR	-	2	297	0.0	6.5	-6.5	
3	765 kV	GAYA-VARANASI	2	0	1013	0.0	16.1	-16.1	
4	765 kV	SASARAM-FAHEHPUR	1	0	528	0.0	9.4	-9.4	
5	765 kV	GAYA-BALIA	1	0	728	0.0	11.3	-11.3	
6	400 kV	PUSAULL-VARANASI	1	20	191	0.0	3.5	-3.5	
7	400 kV	PUSAULL-ALLAHABAD	1	0	191	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	924	0.0	11.4	-11.4	
9	400 kV	PATNA-BALIA	2	0	647	0.0	11.1	-11.1	
10	400 kV	NAUBATPUR-BALIA	2	85	695	0.0	12.1	-12.1	
11	400 kV	BIHARSHARIFF-BALIA	2	0	447	0.0	6.4	-6.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	534	0.0	8.2	-8.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	436	0.0	6.1	-6.1	
14	220 kV	SAHUPURI-KARMANASA	1	0	120	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	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	40	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	25	0	0.0	0.0	0.0	
						ER-NR	0.4	106.4	-106.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1065	142	12.6	0.0	12.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	298	499	0.0	4.2	-4.2	
3	765 kV	JHARSUGUDA-DURG	2	0	557	0.0	9.6	-9.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	777	0.0	12.6	-12.6	
5	400 kV	RANCHI-SIPAT	2	0	227	0.0	2.9	-2.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	221	0.0	3.7	-3.7	
7	220 kV	BUDHIPADAR-KORBA	2	40	77	0.0	0.7	-0.7	
						ER-WR	12.6	33.8	-21.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.9	-12.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	39.1	-39.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3047	0.0	56.3	-56.3	
4	400 kV	TALCHER-I/C	2	209	740	0.0	6.8	-6.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	108.3	-108.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	157	0	2.4	0.0	2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	568	0	9.3	0.0	9.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	52	0	0.9	0.0	0.9	
						ER-NER	12.5	0.0	12.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARALI-AGRA	2	484	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	320	0.0	7.4	-7.4	
2	HVDC	VINDHYACHAL B/B	-	440	0	8.8	0.0	8.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	976	0	13.6	0.0	13.6	
4	765 kV	GWALIOR-AGRA	2	0	2062	0.0	24.6	-24.6	
5	765 kV	GWALIOR-PHAGI	2	0	2119	0.0	32.6	-32.6	
6	765 kV	JABALPUR-ORAI	2	0	1077	0.0	26.2	-26.2	
7	765 kV	GWALIOR-ORAI	1	1128	0	18.4	0.0	18.4	
8	765 kV	SATNA-ORAI	1	0	1000	0.0	17.6	-17.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	2526	0	42.3	0.0	42.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2002	0.0	26.7	-26.7	
11	400 kV	ZERDA-KANKROLI	1	403	0	6.2	0.0	6.2	
12	400 kV	ZERDA-BHINMAL	1	624	0	7.7	0.0	7.7	
13	400 kV	VINDHYACHAL -RIHAND	1	476	0	10.8	0.0	10.8	
14	400 kV	RAPP-SHUJALPUR	2	532	536	2.8	2.8	0.0	
15	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.4	-2.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3	
17	220 kV	MEHGAON-AURAIYA	1	95	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	67	0	1.4	0.0	1.4	
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	
						WR-NR	112.9	141.6	-28.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	10.4	-10.4	
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	23.2	-23.2	
3	765 kV	SOLAPUR-RAICHUR	2	217	1258	0.1	11.8	-11.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2610	0.0	43.2	-43.2	
5	400 kV	KOLHAPUR-KUDGI	2	1424	0	24.8	0.0	24.8	
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	98	1.7	0.0	1.7	
						WR-SR	26.5	88.5	-62.0
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)	Export(-ve)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	0	0	0	0	0	-1.73	
	ER	400kV TALA-BINAGURI 1,2,4 I.e. 400kV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	125	0	72	72	0	1.75	
	ER	220kV CHUKHA-BIRPARA 1&2 I.e. 220kV MALBASE - BIRPARA I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0	0	-1.36	
	NER	132kV GELEPHU-SALAKATI	-23	0	-18	0	0	-0.44	
	NER	132kV MOTANGA-RANGIA	25	0	3	0	0	0.08	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-61	0	0	-1.46	
	ER	NEPAL IMPORT (FROM BIHAR)	-119	-68	-84	0	0	-2.01	
	ER	400kV DHAIKHEBAR-MUZAFFARPUR 1&2	-342	-91	-318	0	0	-7.64	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-924	-492	-684	0	0	-16.42	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-98	0	0	-2.36	