



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: 05<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 04.02.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04- 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 04<sup>th</sup> February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-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)	49852	59221	43654	20488	2658	175873
Peak Shortage (MW)	1117	0	0	517	0	1634
Energy Met (MU)	1099	1413	1085	434	46	4077
Hydro Gen (MU)	126	41	75	32	9	282
Wind Gen (MU)	4	30	45	-	-	78
Solar Gen (MU)*	123.35	63.27	113.12	3.52	0.77	304
Energy Shortage (MU)	9.23	0.00	0.00	3.98	0.00	13.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57013	67862	56726	21676	2703	202995
Time Of Maximum Demand Met (From NLDC SCADA)	10:25	10:53	10:15	18:20	17:47	10:15

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	0.065	0.00	1.26	11.29	12.56	65.09	22.36

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	7697	0	142.5	51.8	-0.2	232	2.00
	Haryana	7628	0	141.1	66.7	-0.1	159	1.75
	Rajasthan	15563	282	287.0	87.9	1.8	295	4.32
	Delhi	4107	0	69.7	61.5	-1.3	180	0.00
	UP	17233	59	318.6	85.4	0.4	303	0.69
	Uttarakhand	2350	0	41.5	29.8	0.2	126	0.47
	HP	1870	0	33.0	26.2	-0.2	84	0.00
	J&K(UT) & Ladakh(UT)	2856	0	62.2	59.1	-2.4	22	0.00
	Chandigarh	179	0	3.5	3.5	0.0	24	0.00
	Chhattisgarh	5013	0	107.3	55.0	-0.3	332	0.00
WR	Gujarat	18074	0	379.4	234.2	0.2	271	0.00
	MP	15352	0	292.9	169.5	-1.9	750	0.00
	Maharashtra	27228	0	561.5	176.0	-2.0	613	0.00
	Goa	661	0	14.6	12.9	1.4	69	0.00
	DNHDDPDCL	1222	0	28.3	28.5	-0.2	36	0.00
	AMNSIL	758	0	16.8	10.5	-0.3	247	0.00
	BALCO	514	0	12.3	12.4	-0.1	6	0.00
	Andhra Pradesh	11429	0	212.2	82.2	-0.7	379	0.00
	Telangana	13224	0	235.6	111.7	1.5	815	0.00
	Karnataka	14691	0	257.6	86.7	-1.0	632	0.00
SR	Kerala	3917	0	78.3	61.1	0.1	241	0.00
	Tamil Nadu	14789	0	292.7	171.2	-3.3	430	0.00
	Puducherry	376	0	8.3	8.1	-0.5	35	0.00
	Bihar	5223	0	90.3	81.4	1.7	190	0.94
	DVC	3531	0	73.8	57.1	-0.6	296	0.00
ER	Jharkhand	1558	85	27.3	21.1	-2.8	86	3.04
	Odisha	4725	0	98.2	34.7	-2.1	388	0.00
	West Bengal	7190	0	143.1	10.1	-3.3	387	0.00
	Sikkim	108	0	1.7	1.4	0.3	46	0.00
	Assam	147	0	2.3	2.7	-0.5	20	0.00
NER	Assam	1545	0	26.0	19.1	0.4	172	0.00
	Manipur	212	0	2.8	3.1	-0.4	25	0.00
	Meghalaya	379	0	7.0	5.9	0.0	40	0.00
	Mizoram	136	0	2.0	1.7	-0.2	16	0.00
	Nagaland	143	0	2.1	2.1	-0.2	29	0.00
	Tripura	228	0	3.9	2.4	0.0	105	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.4	-10.5	-23.2
Day Peak (MW)	-213.5	-518.4	-1046.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	127.5	-78.4	130.1	-175.4	-3.9	0.0
Actual(MU)	124.6	-74.8	128.8	-180.2	-3.0	-4.6
O/D/U/D(MU)	-3.0	3.6	-1.2	-4.8	0.8	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8475	13125	6778	1525	549	30451	47
State Sector	9525	15808	5746	2582	78	33739	53
Total	18000	28933	12524	4107	627	64190	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	711	1394	628	651	16	3400	77
Lignite	31	21	58	0	0	110	2
Hydro	126	41	75	32	9	282	6
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	12	16	7	0	32	66	1
RES (Wind, Solar, Biomass & Others)	155	95	179	4	1	434	10
Total	1062	1603	1024	686	57	4432	100

Share of RES in total generation (%)	14.57	5.92	17.51	0.59	1.36	9.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.92	10.77	32.31	5.18	16.63	19.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.044

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: 05-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	PUSAULI B/B	-	0	297	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	964	0.0	18.1	-18.1	
4	765 kV	SASARAM-FAITEHPUR	1	0	460	0.0	9.1	-9.1	
5	765 kV	GAYA-BALIA	1	0	734	0.0	12.7	-12.7	
6	400 kV	PUSAULI-VARANASI	1	0	184	0.0	3.6	-3.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	185	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	820	0.0	10.0	-10.0	
9	400 kV	PATNA-BALIA	2	0	605	0.0	10.7	-10.7	
10	400 kV	NAIBATTI-R-BALIA	2	0	655	0.0	12.5	-12.5	
11	400 kV	BIHARSHARIFE-BALIA	2	0	395	0.0	6.4	-6.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	495	0.0	7.9	-7.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	0	409	0.0	7.3	-7.3	
14	220 kV	SAHUPUR-CHAMANASA	1	0	116	0.0	1.3	-1.3	
15	132 kV	NAGARUNTARI-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	51	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	110.5	-110.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1086	0	14.2	0.0	14.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	304	519	0.0	3.1	-3.1	
3	765 kV	JHARSUGUDA-DURG	2	0	459	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	721	0.0	12.3	-12.3	
5	400 kV	RANCHI-SIPAT	2	0	219	0.0	3.1	-3.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	223	0.0	4.0	-4.0	
7	220 kV	BUDHIPADAR-KORBA	2	230	64	0.0	0.5	-0.5	
						ER-WR	14.2	31.8	-17.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	9.4	-9.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1897	0.0	39.0	-39.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3151	0.0	59.9	-59.9	
4	400 kV	TALCHER-IC	2	218	556	0.0	4.0	-4.0	
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-BONGAIGAOON	2	176	0	2.6	0.0	2.6	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	621	0	10.4	0.0	10.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	57	0	0.9	0.0	0.9	
						ER-NER	13.9	0.0	13.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	319	0.0	7.7	-7.7	
2	HVDC	VINDHYACHAL B/B	-	247	0	6.7	0.0	6.7	
3	HVDC	MUNDRA-MOHENDERGARH	2	976	0	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	0	2060	0.0	27.6	-27.6	
5	765 kV	GWALIOR-PHAGI	2	0	2101	0.0	35.8	-35.8	
6	765 kV	JABALPUR-ORAI	2	0	1086	0.0	29.2	-29.2	
7	765 kV	GWALIOR-ORAI	1	1109	0	19.1	0.0	19.1	
8	765 kV	SATNA-ORAI	1	0	996	0.0	18.6	-18.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	2400	0	40.4	0.0	40.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2061	0.0	25.7	-25.7	
11	400 kV	ZERDA-KANKROLI	1	382	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHINMAL	1	533	10	6.3	0.0	6.3	
13	400 kV	VINDHYACHAL -RIHAND	1	475	0	10.9	0.0	10.9	
14	400 kV	RAPP-SHUJALPUR	2	438	532	2.1	3.5	-1.4	
15	220 kV	BHANPURA-RANPUR	1	0	140	0.0	2.4	-2.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	88	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	60	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	116.7	151.5	-34.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	11.8	-11.8	
2	HVDC	RAIGARH-PUGALUR	2	579	604	0.0	9.4	-9.4	
3	765 kV	SOLAPUR-RAICHUR	2	460	1279	0.3	15.0	-14.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2641	0.0	45.8	-45.8	
5	400 kV	KOLHAPUR-KUDGI	2	1413	0	24.1	0.0	24.1	
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	97	0.0	0.0	0.0	
						WR-SR	24.4	82.0	-57.6

INTERNATIONAL EXCHANGES

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)	0	0	0	-2.08
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*120MW)	152	0	60	1.61
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.40
	NER	132kV GELEPHU-SALAKATI	23	14	19	0.45
	NER	132kV MOTANGA-RANGIA	12	-27	0	0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-124	-56	-74	-1.78
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-321	-142	-303	-7.28
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-924	-816	-865	-20.76
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-101	-2.42