

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: 23<sup>rd</sup> February 2024

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 22.02.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-फ़रवरी-2024 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 22<sup>nd</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-Feb-2024

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)	59324	63082	51487	21327	2467	197687
Peak Shortage (MW)	658	464	0	280	85	1487
Energy Met (MU)	1151	1495	1318	457	48	4468
Hydro Gen (MU)	112	34	58	24	7	236
Wind Gen (MU)	14	85	35	-	-	134
Solar Gen (MU)*	142.83	73.74	136.66	5.66	0.35	359
Energy Shortage (MU)	3.59	2.68	0.00	1.46	0.62	8.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58868	71971	64993	22236	2510	217388
Time Of Maximum Demand Met	10:11	10:40	11:21	19:03	18:01	10:29

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	0.040	0.00	1.04	5.18	6.23	80.53	13.24

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	14183	0	163.0	74.8	0.0	148	0.00
	Haryana	7680	70	149.6	96.6	1.4	327	2.08
	Rajasthan	17019	0	316.1	107.0	-1.7	288	0.00
	Delhi	4019	0	72.4	62.5	1.4	423	0.00
	UP	17269	0	309.2	55.5	-1.5	444	0.00
	Uttarakhand	2215	0	42.1	31.5	0.9	129	0.10
	HP	2006	0	35.4	30.4	0.5	128	0.00
	J&K(UT) & Ladakh(UT)	2833	0	55.9	51.4	-0.3	356	1.41
	Chandigarh	235	0	3.6	3.5	0.0	26	0.00
Railways NR ISTS	178	0	3.6	3.5	0.1	22	0.00	
WR	Chhattisgarh	5694	0	125.7	63.2	0.9	400	0.00
	Gujarat	19317	0	411.0	164.1	-0.5	549	0.00
	MP	14222	0	284.3	169.0	-2.6	636	2.68
	Maharashtra	28324	0	601.9	173.9	-3.6	612	0.00
	Goa	703	0	12.8	13.9	-1.2	42	0.00
	DNHDDPDCL	1276	0	29.4	29.6	-0.2	39	0.00
	AMNSIL	809	0	17.4	7.6	0.0	243	0.00
	BALCO	522	0	12.4	12.5	-0.1	12	0.00
SR	Andhra Pradesh	12741	0	236.1	95.2	0.2	1182	0.00
	Telangana	14623	0	283.1	149.1	-0.5	882	0.00
	Karnataka	16154	0	311.1	134.3	-0.4	969	0.00
	Kerala	4586	0	95.0	67.4	1.4	321	0.00
	Tamil Nadu	18015	0	382.6	200.7	4.4	671	0.00
	Puducherry	428	0	9.7	9.3	-0.2	53	0.00
ER	Bihar	4409	0	80.9	69.9	-0.3	353	0.51
	DVC	3343	0	71.2	-57.0	-0.3	311	0.00
	Jharkhand	1554	0	30.0	22.1	-1.3	203	0.95
	Odisha	5132	0	112.4	34.3	0.3	497	0.00
	West Bengal	7536	0	160.3	24.6	-2.9	263	0.00
	Sikkim	127	0	2.1	2.0	0.1	33	0.00
Railways ER ISTS	15	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	178	0	3.1	2.8	0.2	49	0.00
	Assam	1524	0	27.3	22.1	0.3	121	0.53
	Manipur	175	0	2.7	2.8	-0.2	31	0.09
	Meghalaya	373	0	6.7	6.0	-0.1	58	0.00
	Mizoram	132	0	2.0	1.7	0.0	43	0.00
	Nagaland	144	0	2.3	2.3	-0.1	19	0.00
Tripura	193	0	3.8	3.1	0.1	22	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.0	-9.8	-21.5	-24.3
Day Peak (MW)	-617.2	-561.5	-1052.0	-1235.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.7	-225.9	257.9	-194.0	9.3	0.0
Actual(MU)	141.0	-223.7	273.6	-212.6	10.9	-10.8
O/D/U/D(MU)	-11.8	2.2	15.7	-18.6	1.7	-10.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7690	11534	5938	3152	703	29017	53
State Sector	8776	8589	5081	2807	219	25471	47
Total	16466	20123	11019	5959	922	54488	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	720	1556	751	734	10	3770	78
Lignite	31	20	43	0	0	94	2
Hydro	112	34	58	24	7	236	5
Nuclear	31	24	52	0	0	107	2
Gas, Naptha & Diesel	9	24	5	0	25	63	1
RES (Wind, Solar, Biomass & Others)	181	161	209	9	0	560	12
Total	1084	1819	1117	767	43	4831	100

Share of RES in total generation (%)	16.65	8.86	18.67	1.17	0.81	11.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.98	12.08	28.53	4.32	17.98	18.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217388	10:29	639
Non-Solar hr	196190	18:54	435

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 -> 07:00 to 17:00hrs 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: 23-Feb-2024

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	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1289	0.0	24.4	-24.4
4	765 kV	SASARAM-FATEHPUR	1	0	676	0.0	14.0	-14.0
5	765 kV	GAYA-BALIA	1	0	606	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	31	53	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	3	78	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	49	608	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	672	0.0	20.8	-20.8
10	400 kV	NAUBATPUR-BALIA	2	0	350	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	107	209	0.0	1.6	-1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	569	0.0	9.7	-9.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	505	0.0	9.7	-9.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	100	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	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>0.5</b>	<b>105.8</b>	<b>-105.3</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1077	0	16.2	0.0	16.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1598	0.0	23.4	-23.4
3	765 kV	JHARSUGUDA-DURG	2	0	623	0.0	11.5	-11.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	708	0.0	12.9	-12.9
5	400 kV	RANCHI-SIPAT	2	0	499	0.0	7.4	-7.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	31	101	0.0	0.9	-0.9
<b>ER-WR</b>						<b>16.2</b>	<b>58.9</b>	<b>-42.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	640	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3358	0.0	61.5	-61.5
4	400 kV	TALCHER-I/C	2	266	213	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>116.9</b>	<b>-116.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	8	1.2	0.5	0.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	608	188	4.7	0.0	4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	96	0	0.7	0.0	0.7
<b>ER-NER</b>						<b>6.6</b>	<b>0.5</b>	<b>6.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	698	0	17.0	0.0	17.0
<b>NER-NR</b>						<b>17.0</b>	<b>0.0</b>	<b>17.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1491	0.0	32.1	-32.1
2	HVDC	VINDHYACHAL B/B	-	430	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1454	0.0	22.9	-22.9
4	765 kV	GWALIOR-AGRA	2	0	1845	0.0	15.5	-15.5
5	765 kV	GWALIOR-PHAGI	2	261	1916	0.3	22.1	-21.9
6	765 kV	JABALPUR-ORAI	2	48	805	0.0	11.9	-11.9
7	765 kV	GWALIOR-ORAI	1	749	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1026	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1015	185	12.3	0.1	12.2
10	765 kV	VINDHYACHAL-VARANASI	2	634	964	0.0	0.9	-0.9
11	400 kV	ZERDA-KANKROLI	1	194	24	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1	559	184	5.0	0.4	4.6
13	400 kV	VINDHYACHAL -RIHAND	1	490	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	675	167	6.5	0.3	6.3
15	220 kV	BHANPURA-RANPUR	1	182	52	0.4	0.2	0.2
16	220 kV	BHANPURA-MORAK	1	0	30	1.9	0.0	1.9
17	220 kV	MEHGAON-AURAIYA	1	107	1	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	76	10	1.0	0.0	1.0
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>67.5</b>	<b>125.0</b>	<b>-57.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	13.7	-13.7
2	HVDC	RAIGARH-PUGALUR	2	0	6021	0.0	90.4	-90.4
3	765 kV	SOLAPUR-RAICHUR	2	17	2337	0.0	24.0	-24.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3150	0.0	49.7	-49.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3308	0.0	53.0	-53.0
6	400 kV	KOLHAPUR-KUDGI	2	1463	0	20.0	0.0	20.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	113	2.1	0.0	2.1
<b>WR-SR</b>						<b>22.1</b>	<b>230.8</b>	<b>-208.7</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)	-188	70	-100	-2.40
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-269	139	-67	-1.60
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-248	-129	-202	-4.86
	NER	132kV GELEPHU-SALAKATI	-31	-3	-18	-0.44
	NER	132kV MOTANGA-RANGIA	24	2	11	0.26
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	1.45
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-167	-13	-67	-1.60
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-395	-151	-342	-8.21
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-589	-797	-19.13
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1236	-808	-1014	-24.34
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-125	0	-98	-2.34

