



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: 16<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 15.02.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15- 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 15<sup>th</sup> February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	49329	60956	46301	21433	2385	180404
Peak Shortage (MW)	3395	719	0	394	220	4728
Energy Met (MU)	1136	1443	1192	439	46	4256
Hydro Gen (MU)	132	80	94	31	9	345
Wind Gen (MU)	2	27	35	-	-	64
Solar Gen (MU)*	129.15	67.04	139.31	2.67	0.81	339
Energy Shortage (MU)	30.26	2.50	0.00	2.73	1.77	37.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59406	68429	58887	21651	2718	206015
Time Of Maximum Demand Met (From NLDC SCADA)	11:40	10:28	09:53	18:19	17:51	11:24

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	0.100	2.52	2.34	9.34	14.20	66.43	19.37

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	8255	0	146.2	61.2	-1.4	118	5.60
	Haryana	7971	0	146.4	69.0	-0.5	122	1.12
	Rajasthan	16537	226	304.8	103.2	-1.0	139	19.07
	Delhi	4053	0	69.1	61.3	-2.0	127	0.00
	UP	17146	51	331.5	96.2	-0.9	300	3.20
	Uttarakhand	2279	70	41.0	30.0	0.3	101	0.58
	HP	1959	0	33.1	25.5	0.0	101	0.00
	J&K(UT) & Ladakh(UT)	2794	0	59.9	55.8	-1.6	503	0.69
	Chandigarh	231	0	3.6	3.7	-0.1	39	0.00
	Chhattisgarh	5172	0	111.8	64.0	1.8	418	1.15
WR	Gujarat	17710	0	391.4	201.5	1.9	1314	0.00
	MP	15624	0	308.9	169.4	0.2	1025	1.35
	Maharashtra	27587	0	557.4	163.1	0.9	984	0.00
	Goa	670	0	13.8	12.9	0.5	75	0.00
	DNHDDPDCL	1265	0	28.8	28.8	0.0	63	0.00
	AMNSIL	819	0	18.2	11.2	-0.2	256	0.00
	BALCO	518	0	12.4	12.4	0.0	13	0.00
	Andhra Pradesh	11662	0	222.3	84.0	-1.3	448	0.00
	Telangana	14174	0	281.2	155.1	-0.7	751	0.00
	Karnataka	14770	0	272.2	91.6	2.0	870	0.00
SR	Kerala	4068	0	80.8	56.0	-0.3	159	0.00
	Tamil Nadu	15846	0	326.8	188.8	-1.3	487	0.00
	Puducherry	398	0	8.8	8.3	-0.3	31	0.00
	Bihar	4919	0	88.2	75.7	-0.2	186	0.30
	DVC	3617	0	75.6	-50.6	-0.3	253	0.00
	Jharkhand	1477	80	27.0	20.1	-1.4	81	2.44
	Odisha	4998	0	104.4	27.0	-1.1	481	0.00
	West Bengal	1175	0	142.1	20.0	-1.8	474	0.00
	Sikkim	120	0	1.9	1.4	0.5	58	0.00
	NER	Arunachal Pradesh	160	0	2.6	2.4	0.1	46
Assam		1549	50	26.0	19.2	0.8	70	1.64
Manipur		217	0	2.8	2.7	0.1	50	0.13
Meghalaya		381	0	7.1	5.6	-0.1	34	0.00
Mizoram		129	0	2.0	1.7	-0.1	22	0.00
Nagaland		123	0	1.9	1.7	0.1	59	0.00
Tripura		224	0	3.6	2.2	0.0	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.3	-10.4	-22.7
Day Peak (MW)	-351.0	-542.1	-1040.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	133.7	-121.1	172.9	-184.5	-1.1	0.0
Actual(MU)	117.5	-101.8	167.7	-188.1	0.6	-4.1
O/D/U/D(MU)	-16.2	19.3	-5.2	-3.6	1.7	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6872	15886	5128	2350	634	30869	50
State Sector	10335	13384	5219	2282	146	31365	50
Total	17206	29269	10347	4632	780	62234	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	742	1403	666	680	17	3508	76
Lignite	31	18	61	0	0	110	2
Hydro	132	80	94	31	9	345	7
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	13	18	6	0	26	63	1
RES (Wind, Solar, Biomass & Others)	157	96	197	3	1	453	10
Total	1101	1652	1100	713	52	4618	100

Share of RES in total generation (%)	14.25	5.82	17.88	0.37	1.55	9.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.55	12.88	33.38	4.74	18.47	20.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.051

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: 16-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	296	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	923	0.0	17.3	-17.3
4	765 kV	SASARAM-FAITEHPUR	1	0	316	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	582	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	4.2	-4.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	582	0.0	6.9	-6.9
9	400 kV	PATNA-BALIA	2	0	623	0.0	12.9	-12.9
10	400 kV	NAUBATTI-BALIA	2	0	681	0.0	13.9	-13.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	303	0.0	4.0	-4.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	406	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	369	0.0	6.6	-6.6
14	220 kV	SAHUPUR-CHAKRAMANASA	1	3	94	0.0	1.1	-1.1
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.4</b>	<b>100.7</b>	<b>-100.3</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	799	494	5.1	0.0	5.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	471	691	0.0	4.0	-4.0
3	765 kV	JHARSUGUDA-DURG	2	0	836	0.0	14.3	-14.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	803	0.0	14.9	-14.9
5	400 kV	RANCHI-SIPAT	2	31	287	0.0	3.7	-3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	204	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	18	70	0.0	0.5	-0.5
<b>ER-WR</b>						<b>5.1</b>	<b>40.7</b>	<b>-35.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	706	0.0	13.2	-13.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	44.0	-44.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3037	0.0	57.3	-57.3
4	400 kV	TALCHER-I/C	2	399	191	0.6	0.0	0.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>114.5</b>	<b>-114.5</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	2	155	0	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	582	0	7.7	0.0	7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	54	0	0.8	0.0	0.8
<b>ER-NER</b>						<b>10.2</b>	<b>0.0</b>	<b>10.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	11.5	0.0	11.5
<b>NER-NR</b>						<b>11.5</b>	<b>0.0</b>	<b>11.5</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1517	0.0	30.6	-30.6
2	HVDC	VINDHYACHAL B/B	-	250	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHENDERGARH	2	1443	0	30.3	0.0	30.3
4	765 kV	GWALIOR-AGRA	2	0	1821	0.0	22.3	-22.3
5	765 kV	GWALIOR-PHAGI	2	0	1676	0.0	29.6	-29.6
6	765 kV	JABALPUR-ORAI	2	0	911	0.0	26.5	-26.5
7	765 kV	GWALIOR-ORAI	1	941	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	887	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2173	0	33.2	0.0	33.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1667	0.0	18.7	-18.7
11	400 kV	ZERDA-KANKROLI	1	298	0	4.0	0.0	4.0
12	400 kV	ZERDA-BHINMAL	1	435	0	5.0	0.0	5.0
13	400 kV	VINDHYACHAL -RIHAND	1	482	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	370	366	1.8	1.4	0.4
15	220 kV	BHANPURA-RANPUR	1	0	181	0.0	2.7	-2.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
17	220 kV	MEHGAOON-AURAIYA	1	131	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	99	0	2.1	0.0	2.1
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>111.8</b>	<b>151.2</b>	<b>-39.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	14.4	-14.4
2	HVDC	RAIGARH-PUGALUR	2	0	4506	0.0	45.8	-45.8
3	765 kV	SOLAPUR-RAICHUR	2	442	1663	0.9	12.2	-11.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2938	0.0	50.3	-50.3
5	400 kV	KOLHAPUR-KUDGI	2	1329	0	21.4	0.0	21.4
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	124	2.4	0.0	2.4
<b>WR-SR</b>						<b>24.6</b>	<b>122.7</b>	<b>-98.1</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 (Le. ALIPURDUAR RECEIPT from MANGDECHHU HEP 4*180MW)	0	0	0	-2.17
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) (Le. BINAGURI RECEIPT from TALA HEP 6*120MW)	187	0	37	1.15
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) (Le. BIRPARA RECEIPT from CHUKHA HEP 4*90MW)	0	0	0	-2.54
	NER	132kV GELEPHU-SALAKATI	24	3	18	0.43
	NER	132kV MOTANGA-RANGIA	-22	0	-6	-0.14
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-127	-59	-94	-2.26
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-338	-69	-280	-6.72
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-918	-555	-840	-20.17
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-106	-2.54