



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: 31st 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 30.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30- 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 30th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 31-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)	50509	57198	44043	20839	2566	175155
Peak Shortage (MW)	370	0	0	367	0	737
Energy Met (MU)	980	1366	1084	429	47	3905
Hydro Gen (MU)	114	31	94	31	8	278
Wind Gen (MU)	13	63	49	-	-	125
Solar Gen (MU)*	99.95	48.01	90.42	2.80	0.83	242
Energy Shortage (MU)	6.81	0.00	0.00	1.87	0.00	8.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51220	65624	57411	21334	2680	193340
Time Of Maximum Demand Met (From NLDC SCADA)	19:29	10:13	10:36	18:49	17:43	10:25

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	0.082	0.65	2.05	10.05	12.74	60.59	26.66

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	6650	0	131.1	41.5	-1.0	238	1.20
	Haryana	6699	0	114.2	49.9	-1.7	128	0.00
	Rajasthan	12671	0	236.4	59.0	-2.8	278	0.00
	Delhi	4570	0	76.4	64.4	-1.5	208	0.00
	UP	17020	0	288.6	65.9	1.5	516	5.07
	Uttarakhand	2044	0	40.7	31.9	-0.4	155	0.54
	HP	1810	0	33.1	26.2	-0.4	107	0.00
	J&K(UT) & Ladakh(UT)	2831	0	55.5	55.3	-4.4	163	0.00
	Chandigarh	261	0	4.1	4.0	0.0	58	0.00
	Chhattisgarh	5087	0	110.8	61.5	-0.5	226	0.00
WR	Gujarat	16985	0	358.8	224.6	-5.5	657	0.00
	MP	14110	0	272.5	165.7	-4.6	493	0.00
	Maharashtra	26616	0	553.3	179.7	-1.0	845	0.00
	Goa	660	0	12.7	12.7	-0.4	74	0.00
	DNHDDPDCL	1224	0	28.0	28.1	-0.1	47	0.00
	AMNSIL	761	0	17.1	10.0	0.1	293	0.00
	BALCO	515	0	12.3	12.4	-0.1	68	0.00
	Andhra Pradesh	11391	0	207.7	79.0	-0.3	746	0.00
	Telangana	12936	0	234.7	98.3	0.3	619	0.00
	Karnataka	14597	0	247.4	92.0	2.6	938	0.00
SR	Kerala	3941	0	75.5	58.2	0.1	194	0.00
	Tamil Nadu	15721	0	310.5	188.0	3.7	1186	0.00
	Puducherry	382	0	8.4	8.2	-0.5	35	0.00
	Bihar	4766	0	86.8	75.3	-0.7	287	0.20
	DVC	3610	0	74.5	43.5	-0.4	247	0.00
	Jharkhand	1534	215	21.6	21.6	-2.6	68	1.67
	Odisha	4925	0	103.1	39.4	-1.6	389	0.00
	West Bengal	7065	0	135.2	9.8	-2.4	231	0.00
	Sikkim	119	0	1.9	2.1	-0.2	25	0.00
	NER	Arunachal Pradesh	134	0	2.2	2.4	-0.3	31
Assam		1515	0	26.7	20.1	0.4	154	0.00
Manipur		228	0	3.2	3.2	0.0	52	0.00
Meghalaya		366	0	6.8	6.3	-0.2	21	0.00
Mizoram		137	0	2.0	1.7	-0.2	3	0.00
Nagaland		138	0	2.2	2.1	0.0	16	0.00
Tripura		231	0	3.9	2.3	0.0	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.5	-10.3	-24.1
Day Peak (MW)	-207.0	-550.4	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	75.7	-51.5	132.4	-154.4	-2.2	0.0
Actual(MU)	59.8	-53.0	154.4	-164.3	-1.9	-4.9
O/D/U/D(MU)	-15.9	-1.5	22.0	-9.9	0.4	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7346	13966	7148	2425	594	31478	47
State Sector	7860	17433	6543	2940	98	34874	53
Total	15206	31399	13691	5365	692	66352	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	687	1318	606	636	15	3262	77
Lignite	18	21	57	0	0	97	2
Hydro	114	31	94	31	8	278	7
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	18	7	7	0	31	63	1
RES (Wind, Solar, Biomass & Others)	139	113	161	3	1	417	10
Total	1002	1528	1001	669	55	4256	100

Share of RES in total generation (%)	13.89	7.42	16.06	0.42	1.50	9.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.87	11.88	33.08	5.04	15.56	19.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.056

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: 31-Jan-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	451	0.0	2.7	-2.7
2	HVDC	PUSAULI B/B	2	0	299	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	1004	0.0	15.0	-15.0
4	765 kV	SASARAM-FAITEHPUR	1	0	477	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	625	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.2	-4.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	176	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	637	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	2	0	578	0.0	9.4	-9.4
10	400 kV	NAIBATTI-BALIA	2	0	621	0.0	9.8	-9.8
11	400 kV	BIHARSHARIFE-BALIA	2	86	277	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	510	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFE-VARANASI	2	0	366	0.0	4.7	-4.7
14	220 kV	SAHUPUR-BAKAMANASA	1	12	185	0.0	1.1	-1.1
15	132 kV	NAGAR-UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	34	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	90.4	-90.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1478	0	21.9	0.0	21.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	447	437	0.0	3.8	-3.8
3	765 kV	JHARSUGUDA-DURG	2	0	490	0.0	8.5	-8.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	793	0.0	13.2	-13.2
5	400 kV	RANCHI-SIPAT	2	60	296	0.0	2.9	-2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	214	0.0	3.5	-3.5
7	220 kV	BUDHIPADAR-KORBA	2	33	83	0.0	0.8	-0.8
ER-WR						21.9	32.7	-10.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	274	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	41.3	-41.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3380	0.0	64.4	-64.4
4	400 kV	TALCHER-I/C	2	0	704	0.0	8.7	-8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	111.8	-111.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	151	96	1.4	0.2	1.1
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	558	119	6.5	0.0	6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	54	17	0.5	0.0	0.5
ER-NER						8.3	0.2	8.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	6.7	0.0	6.7
NER-NR						6.7	0.0	6.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	493	0.0	11.4	-11.4
2	HVDC	VINDHYACHAL B/B	-	201	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHENDERGARH	2	494	0	2.6	0.0	2.6
4	765 kV	GWALIOR-AGRA	2	525	2087	1.1	16.0	-15.0
5	765 kV	GWALIOR-PHAGI	2	31	1651	0.0	13.9	-13.9
6	765 kV	JABALPUR-ORAI	2	54	987	0.0	15.3	-15.3
7	765 kV	GWALIOR-ORAI	1	894	0	14.9	0.0	14.9
8	765 kV	SATNA-ORAI	1	0	1079	0.0	15.1	-15.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2838	0	44.0	0.0	44.0
10	765 kV	VINDHYACHAL-VARANASI	2	387	1854	0.0	12.3	-12.3
11	400 kV	ZERDA-KANKROLI	1	426	0	7.3	0.0	7.3
12	400 kV	ZERDA-BHINMAL	1	482	0	7.1	0.0	7.1
13	400 kV	VINDHYACHAL -RIHAND	1	485	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	665	461	4.3	1.7	2.6
15	220 kV	BHANPURA-RANPUR	1	0	121	0.0	1.8	-1.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	116	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	96	7	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
WR-NR						100.9	88.3	12.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	995	0.0	10.4	-10.4
2	HVDC	RAIGARH-PUGALUR	2	562	3005	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	0	2304	0.0	29.2	-29.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2889	0.0	46.1	-46.1
5	400 kV	KOLHAPUR-KUDGI	2	1359	0	22.4	0.0	22.4
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	91	1.6	0.0	1.6
WR-SR						24.0	100.3	-76.3

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)	0	0	0	-1.87
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*120MW)	171	0	70	1.69
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.64
	NER	132kV GELEPHU-SALAKATI	21	9	15	0.35
	NER	132kV MOTANGA-RANGIA	9	-9	0	-0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-57	-1.38
	ER	NEPAL IMPORT (FROM BIHAR)	-143	0	-58	-1.40
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-331	-139	-313	-7.51
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-838	-896	-21.51
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-137	0	-108	-2.59