



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: 29th January 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 28.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-जनवरी-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 28th January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-Jan-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)	58357	59938	43090	21064	2623	185072
Peak Shortage (MW)	0	0	0	352	9	361
Energy Met (MU)	1245	1465	1124	447	48	4328
Hydro Gen (MU)	88	47	28	22	9	194
Wind Gen (MU)	6	37	58	-	-	101
Solar Gen (MU)*	83.51	65.52	121.81	5.23	1.07	277
Energy Shortage (MU)	0.54	1.00	0.00	2.39	0.33	4.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64982	73675	56039	22187	2652	215887
Time Of Maximum Demand Met	11:30	10:50	09:24	18:57	17:48	10:37

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	0.043	0.13	1.13	4.69	5.95	80.25	13.81

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	8325	0	155.2	55.5	-1.3	282	0.00
	Haryana	8451	0	150.3	90.2	-0.8	196	0.00
	Rajasthan	17663	0	328.2	141.2	-0.9	259	0.00
	Delhi	5020	0	81.5	65.4	-0.7	386	0.00
	UP	21138	0	376.5	116.0	-1.2	312	0.00
	Uttarakhand	2382	0	45.8	31.3	0.6	185	0.35
	HP	2002	0	35.2	30.8	-0.1	77	0.08
	J&K(UT) & Ladakh(UT)	2968	0	64.2	60.7	-0.2	268	0.11
	Chandigarh	250	0	4.4	4.5	-0.1	40	0.00
Railways NR ISTS	180	0	3.8	3.2	0.7	64	0.00	
WR	Chhattisgarh	4939	0	103.5	40.3	-0.6	247	0.00
	Gujarat	20555	0	400.5	144.3	1.5	899	0.00
	MP	17198	0	327.5	210.6	-1.8	881	1.00
	Maharashtra	27568	0	562.0	161.0	0.2	564	0.00
	Goa	623	0	11.4	11.8	-0.8	48	0.00
	DNHDDPDCL	1223	0	28.6	28.7	-0.1	43	0.00
	AMNSIL	869	0	18.9	9.6	0.0	268	0.00
	BALCO	525	0	12.5	12.5	0.0	12	0.00
SR	Andhra Pradesh	12068	0	218.9	90.2	-1.3	294	0.00
	Telangana	13251	0	246.2	121.8	-0.2	679	0.00
	Karnataka	13837	0	262.9	115.5	-4.9	711	0.00
	Kerala	3756	0	75.1	64.9	0.7	223	0.00
	Tamil Nadu	14680	0	312.6	153.4	-1.1	514	0.00
	Puducherry	382	0	8.7	8.3	-0.2	38	0.00
ER	Bihar	5196	293	100.4	89.8	-1.3	288	1.03
	DVC	3351	0	71.9	-42.0	0.1	346	0.00
	Jharkhand	1649	0	31.6	26.7	-0.7	249	1.36
	Odisha	4952	0	98.2	12.8	-0.9	441	0.00
	West Bengal	6475	0	142.7	22.8	-1.8	233	0.00
	Sikkim	98	0	1.7	1.9	-0.3	3	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	175	0	3.1	3.0	0.0	38	0.00
	Assam	1466	0	26.6	21.0	0.8	149	0.08
	Manipur	219	20	3.1	2.8	0.3	48	0.25
	Meghalaya	344	0	6.4	5.5	-0.3	36	0.00
	Mizoram	149	0	2.4	1.6	-0.1	19	0.00
	Nagaland	145	0	2.3	2.3	-0.1	30	0.00
Tripura	224	0	3.8	3.3	-0.2	16	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.3	-12.1	-21.3	-28.3
Day Peak (MW)	-521.0	-628.8	-1055.0	-1332.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.3	-275.7	118.5	-148.0	7.9	0.0
Actual(MU)	305.3	-270.0	107.6	-156.0	7.6	-5.5
O/D/U/D(MU)	8.1	5.7	-10.9	-8.0	-0.3	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7807	9534	3338	4472	533	25683	53
State Sector	5871	8807	4825	2716	281	22499	47
Total	13677	18340	8163	7188	814	48183	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1622	706	660	11	3745	80
Lignite	30	14	66	0	0	110	2
Hydro	88	47	28	22	9	194	4
Nuclear	27	40	74	0	0	141	3
Gas, Naptha & Diesel	22	28	6	0	25	81	2
RES (Wind, Solar, Biomass & Others)	113	107	209	7	1	436	9
Total	1026	1858	1088	689	46	4708	100

Share of RES in total generation (%)	10.96	5.77	19.18	1.02	2.33	9.27
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.23	10.51	28.55	4.21	21.89	16.42

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.039

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215887	10:37	239
Non-Solar hr	191408	18:43	304

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: 29-Jan-2024

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	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	970	0.0	17.0	-17.0
4	765 kV	SASARAM-FATEHPUR	1	0	573	0.0	10.7	-10.7
5	765 kV	GAYA-BALIA	1	0	924	0.0	14.5	-14.5
6	400 kV	PUSAULI-VARANASI	1	36	40	0.0	0.1	-0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	82	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	774	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	2	0	652	0.0	12.5	-12.5
10	400 kV	NAUBATPUR-BALIA	2	0	695	0.0	13.4	-13.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	377	0.0	5.6	-5.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	588	0.0	10.3	-10.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	426	0.0	7.1	-7.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	122	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	105.4	-104.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1404	0.0	18.4	-18.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	828	596	0.9	0.0	0.9
3	765 kV	JHARSUGUDA-DURG	2	0	768	0.0	13.8	-13.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	717	0.0	10.7	-10.7
5	400 kV	RANCHI-SIPAT	2	138	227	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	4	180	0.0	1.8	-1.8
ER-WR						0.9	48.7	-47.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	503	0.0	11.4	-11.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	3	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2912	0.0	46.8	-46.8
4	400 kV	TALCHER-I/C	2	1939	0	44.0	0.0	44.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	58.2	-58.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	195	68	1.4	0.1	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	624	0	6.7	0.0	6.7
3	220 kV	ALIPURDUAR-SALAKATI	2	103	8	1.3	0.0	1.3
ER-NER						9.3	0.1	9.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	701	0	17.2	0.0	17.2
NER-NR						17.2	0.0	17.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2502	0.0	50.6	-50.6
2	HVDC	VINDHYACHAL B/B	-	432	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	23.2	-23.2
4	765 kV	GWALIOR-AGRA	2	0	2909	0.0	38.7	-38.7
5	765 kV	GWALIOR-PHAGI	2	0	2375	0.0	40.2	-40.2
6	765 kV	JABALPUR-ORAI	2	0	1390	0.0	37.4	-37.4
7	765 kV	GWALIOR-ORAI	1	1163	0	19.6	0.0	19.6
8	765 kV	SATNA-ORAI	1	0	1211	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1043	839	7.6	2.0	5.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3121	0.0	42.3	-42.3
11	400 kV	ZERDA-KANKROLI	1	151	181	0.8	1.2	-0.4
12	400 kV	ZERDA -BHINMAL	1	222	421	0.8	2.5	-1.7
13	400 kV	VINDHYACHAL -RIHAND	1	485	30	6.3	0.0	6.3
14	400 kV	RAPP-SHUJALPUR	2	50	704	0.1	6.6	-6.5
15	220 kV	BHANPURA-RANPUR	1	122	165	0.7	1.5	-0.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	69	16	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	39	41	0.4	0.1	0.3
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						49.2	269.2	-219.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	21.4	-21.4
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	49.0	-49.0
3	765 kV	SOLAPUR-RAICHUR	2	1582	1700	10.5	8.9	1.7
4	765 kV	WARDHA-NIZAMABAD	2	24	2622	0.0	27.2	-27.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2663	0.0	27.8	-27.8
6	400 kV	KOLHAPUR-KUDGI	2	1802	0	24.0	0.0	24.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	100	1.9	0.0	1.9
WR-SR						36.4	134.2	-97.7

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)	-213	40	-122	-2.92
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-240	164	-29	-0.70
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-229	-48	-146	-3.50
	NER	132kV GELEPHU-SALAKATI	-23	-17	-18	-0.42
	NER	132kV MOTANGA-RANGIA	21	0	8	0.19
NEPAL	NR	NEPAL IMPORT (FROM UP)	-67	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-162	-10	-68	-1.62
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-467	-143	-375	-9.00
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-450	-783	-18.80
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1332	-998	-1181	-28.34
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-129	0	-103	-2.47

