



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: 29th December 2022

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 28.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28- दिसंबर -2022 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 28th December 2022, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 29-Dec-2022

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)	53918	58632	42665	20340	2682	178237
Peak Shortage (MW)	732	0	300	463	0	1495
Energy Met (MU)	1166	1434	1024	407	47	4079
Hydro Gen (MU)	121	51	103	30	11	316
Wind Gen (MU)	5	51	37	-	-	92
Solar Gen (MU)*	107.03	53.71	107.39	2.08	0.21	270
Energy Shortage (MU)	14.76	0.00	0.55	3.59	0.00	18.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58847	70367	52513	21043	2716	201523
Time Of Maximum Demand Met (From NLDC SCADA)	11:43	10:31	09:46	17:55	17:19	10:16

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	0.049	0.00	0.88	6.03	6.91	72.40	20.69

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	7808	0	142.9	32.3	-1.1	191	0.00
	Haryana	7619	0	144.6	86.1	-0.4	184	0.00
	Rajasthan	16134	193	309.0	113.9	0.6	206	10.97
	Delhi	4868	0	80.3	73.5	-1.0	270	0.00
	UP	18696	66	342.4	94.9	0.2	412	2.40
	Uttarakhand	2224	150	43.4	30.9	0.4	176	1.10
	HP	1996	0	36.2	28.7	0.6	141	0.00
	J&K(UT) & Ladakh(UT)	2849	0	62.5	60.2	-2.2	121	0.29
	Chandigarh	272	0	4.5	4.4	0.0	45	0.00
	Chhattisgarh	4751	0	102.9	49.0	-0.5	164	0.00
WR	Gujarat	19283	0	381.9	202.4	-4.5	558	0.00
	MP	16930	0	324.5	194.6	0.0	341	0.00
	Maharashtra	26949	0	554.2	199.5	5.0	1490	0.00
	Goa	684	0	14.2	13.3	0.3	45	0.00
	DNHDDPDCL	1210	0	27.6	28.0	-0.4	26	0.00
	AMNSIL	769	0	16.4	9.4	0.5	303	0.00
SR	BALCO	518	0	12.3	12.4	-0.1	8	0.00
	Andhra Pradesh	9873	0	192.6	77.4	-0.7	918	0.00
	Telangana	13591	0	230.8	103.6	0.3	616	0.00
	Karnataka	12621	0	219.6	89.6	0.0	870	0.55
	Kerala	3987	0	80.1	55.5	0.0	214	0.00
	Tamil Nadu	14183	0	292.5	159.2	-3.0	346	0.00
	Puducherry	395	0	8.7	8.0	-0.1	56	0.00
ER	Bihar	4948	0	86.3	75.2	-1.6	247	0.66
	DVC	3420	0	71.4	-44.2	0.1	290	0.00
	Jharkhand	1628	0	28.4	21.2	-1.5	141	2.93
	Odisha	4959	0	95.2	30.9	-2.5	325	0.00
	West Bengal	6720	0	124.3	-0.6	-2.6	305	0.00
NER	Sikkim	123	0	1.9	2.0	-0.1	20	0.00
	Arunachal Pradesh	146	0	2.4	2.4	-0.2	34	0.00
	Assam	1484	0	25.9	21.7	0.2	111	0.00
	Manipur	234	0	3.3	3.5	-0.2	39	0.00
	Meghalaya	402	0	7.3	6.2	-0.1	39	0.00
	Mizoram	143	0	2.0	2.0	-0.3	6	0.00
	Nagaland	145	0	2.3	2.3	-0.2	19	0.00
	Tripura	218	0	3.6	3.7	0.1	86	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	0.4	-6.3	-21.2
Day Peak (MW)	46.0	-268.6	-1038.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	171.1	-107.8	126.7	-188.6	-1.4	0.0
Actual(MU)	170.8	-107.6	131.9	-197.7	-2.3	-4.9
OD/UD(MU)	-0.4	0.2	5.3	-9.1	-0.9	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6023	11061	7428	2020	459	26991	45
State Sector	8205	13934	8533	1660	184	32515	55
Total	14228	24994	15961	3680	642	59505	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	770	1439	585	641	16	3451	78
Lignite	26	13	24	0	0	64	1
Hvdro	122	52	104	30	11	319	7
Nuclear	21	37	70	0	0	128	3
Gas, Naptha & Diesel	14	9	6	0	29	58	1
RES (Wind, Solar, Biomass & Others)	133	106	169	2	0	410	9
Total	1086	1656	958	673	56	4430	100
Share of RES in total generation (%)	12.27	6.41	17.61	0.32	0.38	9.27	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.40	11.76	35.80	4.76	20.28	19.35	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 29-Dec-2022

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	250	0.0	1.9	-1.9	
2	HVDC	PUSAULI B/B	2	0	346	0.0	8.6	-8.6	
3	765 kV	GAYA-VARANASI	2	0	732	0.0	11.5	-11.5	
4	765 kV	SASARAM-FATEHPUR	1	0	488	0.0	9.3	-9.3	
5	765 kV	GAYA-BALIA	1	0	620	0.0	9.8	-9.8	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	200	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	11.8	-11.8	
9	400 kV	PATNA-BALIA	2	0	585	0.0	11.0	-11.0	
10	400 kV	NAUBATPUR-BALIA	2	0	630	0.0	11.6	-11.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	371	0.0	5.2	-5.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	610	0.0	9.6	-9.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	364	0.0	10.7	-10.7	
14	220 kV	SINPUR-BIKARANMANA	1	0	135	0.0	1.6	-1.6	
15	132 kV	NAGAR UNTARI-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	4	5	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	110.8	-110.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	733	238	2.3	0.0	2.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	391	794	0.0	4.2	-4.2	
3	765 kV	JHARSUGUDA-DURG	2	0	557	0.0	10.5	-10.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	532	0.0	8.0	-8.0	
5	400 kV	RANCHI-SIPAT	2	69	248	0.0	2.1	-2.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	61	94	0.0	0.2	-0.2	
						ER-WR	2.3	27.0	-24.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	194	647	0.0	9.1	-9.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2470	0.0	43.1	-43.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3211	0.0	58.6	-58.6	
4	400 kV	TALCHER-T/C	2	147	1187	0.0	10.4	-10.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.8	-110.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	192	173	1.5	0.8	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	594	283	5.4	0.0	5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	53	44	0.3	0.0	0.3	
						ER-NER	7.1	0.8	6.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	500	6.7	2.3	4.5	
						NER-NR	6.7	2.3	4.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1513	0.0	30.2	-30.2	
2	HVDC	VINDHYACHAL B/B	2	245	0	6.1	0.0	6.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	1168	0	22.5	0.0	22.5	
4	765 kV	GWALIOR-AGRA	2	0	1828	0.0	22.8	-22.8	
5	765 kV	GWALIOR-PHAGI	2	0	2185	0.0	37.7	-37.7	
6	765 kV	JABALPUR-ORAI	2	0	925	0.0	25.8	-25.8	
7	765 kV	GWALIOR-ORAI	1	1009	0	20.1	0.0	20.1	
8	765 kV	SATNA-ORAI	1	0	903	0.0	17.4	-17.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1531	0	15.8	0.0	15.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2321	0.0	30.2	-30.2	
11	400 kV	ZERDA-KANKROLI	1	205	81	1.5	0.0	1.5	
12	400 kV	ZERDA-JBHINMAL	1	389	293	0.0	0.0	0.0	
13	400 kV	VINDHYACHAL-RIHAND	1	970	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHULIAPUR	2	264	705	0.6	5.2	-4.7	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	112	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	77	0	1.6	0.0	1.6	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	91.0	171.0	-80.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	14.2	0.9	13.3	
2	HVDC	RAIGARH-PUGALUR	2	571	3001	0.0	16.5	-16.5	
3	765 kV	SOLAPUR-RAICHUR	2	70	2148	0.0	17.5	-17.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3636	0.0	57.2	-57.2	
5	400 kV	KOLHAPUR-KUDCI	2	1360	0	23.1	0.0	23.1	
6	220 kV	KOLHAPUR-CHIKODI	1	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	127	2.4	0.0	2.4	
						WR-SR	39.7	92.1	-52.5
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	0	0	0	-1.29			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	110	97	103	2.48			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.43			
	NER	132KV GELEPHU-SALAKATI	28	2	23	0.54			
	NER	132KV MOTANGA-RANGIA	11	0	5	0.11			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-63	-1.51			
	ER	NEPAL IMPORT (FROM BIHAR)	72	0	-31	-0.74			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-266	0	-170	-4.07			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-629	-795	-19.09			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-101	0	-88	-2.10			