



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: 30th 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 29.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29- 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 29th 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: 30-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)	55179	58093	43345	21277	2675	180569
Peak Shortage (MW)	0	0	0	344	0	344
Energy Met (MU)	1163	1438	1045	410	47	4103
Hydro Gen (MU)	120	46	110	30	11	317
Wind Gen (MU)	21	20	41	-	-	81
Solar Gen (MU)*	79.43	51.74	110.89	2.53	0.49	245
Energy Shortage (MU)	14.03	0.00	0.00	2.94	0.00	16.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59584	70713	53030	21385	2796	202624
Time Of Maximum Demand Met (From NLDC SCADA)	11:50	10:41	11:41	18:44	17:40	11:43

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	0.130	3.02	1.83	14.01	18.86	63.05	18.09

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	7576	0	139.6	40.5	-0.5	221	0.00
	Haryana	7468	0	142.7	76.3	-0.7	247	0.00
	Rajasthan	16439	12	308.2	117.5	0.0	164	11.50
	Delhi	4686	0	78.8	72.0	-2.3	269	0.00
	UP	19159	0	346.8	96.0	-1.6	392	0.00
	Uttarakhand	2307	0	45.3	31.5	2.2	314	1.93
	HP	1935	0	36.5	29.5	0.1	184	0.00
	J&K(UT) & Ladakh(UT)	2818	0	61.0	58.6	-1.9	79	0.60
	Chandigarh	258	0	4.6	4.5	0.1	49	0.00
	Chhattisgarh	4739	0	103.3	46.5	-1.5	103	0.00
WR	Gujarat	19807	0	391.7	216.9	0.3	795	0.00
	MP	16971	0	325.1	193.6	0.0	552	0.00
	Maharashtra	26884	0	548.7	194.4	0.6	1040	0.00
	Goa	689	0	14.5	13.5	0.4	52	0.00
	DNHDDPDCL	1178	0	26.6	27.2	-0.6	39	0.00
	AMNSIL	758	0	15.9	9.2	0.4	316	0.00
SR	BALCO	519	0	12.3	12.4	-0.1	0	0.00
	Andhra Pradesh	10040	0	198.4	83.5	-0.8	462	0.00
	Telangana	13798	0	231.7	108.8	-0.9	520	0.00
	Karnataka	12504	0	223.2	93.9	2.8	1150	0.00
	Kerala	3976	0	80.5	55.5	0.1	167	0.00
	Tamil Nadu	14703	0	303.3	155.3	-2.4	295	0.00
	Puducherry	387	0	7.9	8.2	-0.3	68	0.00
ER	Bihar	5131	0	89.8	78.1	-0.2	226	0.47
	DVC	3459	0	72.1	-43.9	0.2	305	0.00
	Jharkhand	1385	290	27.0	21.1	-1.9	155	2.47
	Odisha	4867	0	95.7	31.0	-2.6	323	0.00
	West Bengal	6741	0	123.8	-2.5	-2.5	329	0.00
NER	Sikkim	132	0	1.9	1.9	0.0	29	0.00
	Arunachal Pradesh	152	0	2.4	2.5	-0.2	32	0.00
	Assam	1513	0	26.0	19.8	-0.2	68	0.00
	Manipur	247	0	3.4	3.5	-0.1	36	0.00
	Meghalaya	389	0	7.4	6.0	0.0	33	0.00
	Mizoram	145	0	2.0	1.9	-0.3	21	0.00
	Nagaland	151	0	2.3	2.2	-0.1	21	0.00
	Tripura	226	0	3.7	1.7	-0.2	42	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.5	-5.9	-21.1
Day Peak (MW)	-76.0	-472.0	-1037.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	180.7	-119.0	133.8	-193.8	-1.8	0.0
Actual(MU)	181.1	-120.3	138.6	-205.7	-2.0	-8.2
O/D/U/D(MU)	0.4	-1.2	4.8	-11.9	-0.2	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5743	11196	7428	1360	459	26186	46
State Sector	7490	13759	8203	1660	98	31209	54
Total	13233	24954	15631	3020	557	57395	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	766	1486	583	651	16	3501	79
Lignite	27	12	25	0	0	63	1
Hvdro	121	47	110	30	11	298	7
Nuclear	15	37	70	0	0	122	3
Gas, Naptha & Diesel	15	11	4	0	29	58	1
RES (Wind, Solar, Biomass & Others)	125	73	170	3	0	372	8
Total	1069	1667	938	684	56	4414	100
Share of RES in total generation (%)	11.73	4.40	18.12	0.38	0.87	8.42	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.45	9.42	35.05	4.82	20.26	17.93	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.057

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting:		NET (MU)
						Import (MU)	Export (MU)	
Date of Reporting: 30-Dec-2022								
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	305	0.0	5.5	-5.5
2	HVDC	PUSAULI B/B	2	0	346	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	0	648	0.0	11.8	-11.8
4	765 kV	SASARAM-FATEHPUR	1	0	477	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	632	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.7	-4.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	197	0.0	3.9	-3.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	843	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	2	0	593	0.0	10.8	-10.8
10	400 kV	NAUBATPUR-BALIA	2	0	637	0.0	11.1	-11.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	291	0.0	3.2	-3.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	563	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	343	0.0	5.5	-5.5
14	220 kV	SINPUR-BIKRAMNASHA	1	37	121	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	4	32	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	0.3	-103.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	750	154	7.1	0.0	7.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	373	763	0.0	2.6	-2.6
3	765 kV	JHARSUGUDA-DURG	2	0	588	0.0	10.5	-10.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	601	0.0	8.5	-8.5
5	400 kV	RANCHI-SIPAT	2	31	253	0.0	2.1	-2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	73	74	0.0	0.1	-0.1
						ER-WR	7.1	-18.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	10.7	-10.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	40.6	-40.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3345	0.0	63.8	-63.8
4	400 kV	TALCHER-T/C	2	219	650	0.0	7.7	-7.7
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
						ER-SR	0.0	-115.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	29	225	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	272	474	0.0	5.1	-5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	3	62	0.0	0.9	-0.9
						ER-NER	0.0	-9.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	1	503	0.0	11.5	-11.5
						NER-NR	0.0	-11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1527	0.0	35.3	-35.3
2	HVDC	VINDHYACHAL B/B	2	247	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	976	0	15.2	0.0	15.2
4	765 kV	GWALIOR-AGRA	2	153	1698	0.1	17.6	-17.5
5	765 kV	GWALIOR-PHAGI	2	0	2443	0.0	42.7	-42.7
6	765 kV	JABALPUR-ORAI	2	0	851	0.0	25.6	-25.6
7	765 kV	GWALIOR-ORAI	1	1127	0	20.9	0.0	20.9
8	765 kV	SATNA-ORAI	1	0	877	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1613	0	24.6	0.0	24.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2127	0.0	32.9	-32.9
11	400 kV	ZERDA-KANKROLI	1	227	18	2.9	0.0	2.9
12	400 kV	ZERDA-BHINMAL	1	501	96	2.9	0.0	2.9
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	22.1	0.0	22.1
14	400 kV	RAPP-SHULIAPUR	2	187	506	0.5	5.0	-4.5
15	220 kV	BHANUPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANUPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	148	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	105	0	2.0	0.0	2.0
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	98.4	-80.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	512	10.6	2.6	7.9
2	HVDC	RAIGARH-PUGALUR	2	963	4419	0.7	0.0	0.7
3	765 kV	SOLAPUR-RAICHUR	2	305	2104	0.1	26.1	-26.0
4	765 kV	WARDHA-NIZAMABAD	2	0	4037	0.0	64.5	-64.5
5	400 kV	WARDHA-KUDCI	2	1358	0	20.7	0.0	20.7
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	128	2.4	0.0	2.4
						WR-SR	34.5	-58.8
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	-1.41		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	137	62	87	2.09		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.19		
	NER	132kV GELEPHU-SALAKATI	8	0	0	0.01		
	NER	132kV MOTANGA-RANGIA	-11	0	-1	-0.03		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-62	-1.48		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-295	-15	-154	-3.70		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-627	-793	-19.03		
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-100	0	-86	-2.06		