



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: 28<sup>th</sup> 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 27.12.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27- 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 27<sup>th</sup> 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: 28-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)	55110	58024	42294	19065	2601	177094
Peak Shortage (MW)	0	0	0	367	0	367
Energy Met (MU)	1163	1434	996	402	45	4041
Hydro Gen (MU)	122	45	89	30	10	296
Wind Gen (MU)	20	79	47	-	-	146
Solar Gen (MU)*	105.42	50.20	94.05	1.84	0.21	252
Energy Shortage (MU)	2.17	0.00	0.00	1.96	0.00	4.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59184	71321	50808	20654	2663	200999
Time Of Maximum Demand Met (From NLDC SCADA)	10:24	10:30	09:39	18:23	17:59	10:26

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	0.193	0.49	2.78	14.28	17.54	48.28	34.17

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	7760	0	145.6	38.0	-1.3	123	0.00
	Haryana	7635	0	143.6	94.1	-1.4	88	0.00
	Rajasthan	16269	165	310.7	114.1	-3.3	127	1.28
	Delhi	4675	0	80.9	74.4	-2.8	337	0.00
	UP	18768	0	336.8	96.4	-2.7	221	0.00
	Uttarakhand	2287	0	43.5	31.3	0.7	150	0.77
	HP	1988	0	35.8	28.5	0.1	114	0.00
	J&K(UT) & Ladakh(UT)	2812	0	62.0	59.9	-2.4	47	0.12
	Chandigarh	239	0	3.9	4.6	-0.8	29	0.00
	WR	Chhattisgarh	4767	0	103.5	52.1	0.1	146
Gujarat		19636	0	385.1	198.2	-3.9	781	0.00
MP		17035	0	324.9	193.9	0.0	290	0.00
Maharashtra		27234	0	550.4	180.9	1.3	799	0.00
Goa		660	0	13.4	12.9	-0.1	100	0.00
DNHDDPDCL		1204	0	27.6	28.2	-0.6	46	0.00
AMNSIL		781	0	17.2	10.8	0.0	261	0.00
SR	BALCO	518	0	12.3	12.4	-0.1	0	0.00
	Andhra Pradesh	9402	0	187.0	71.8	-1.3	660	0.00
	Telangana	13444	0	225.6	98.0	-2.1	752	0.00
	Karnataka	12004	0	209.8	84.1	-0.7	699	0.00
	Kerala	3887	0	78.9	56.3	-0.4	179	0.00
	Tamil Nadu	13856	0	286.4	161.0	-4.4	498	0.00
	Puducherry	388	0	8.7	8.2	-0.2	35	0.00
ER	Bihar	4872	0	85.8	74.1	-0.7	198	0.15
	DVC	3385	0	69.4	-43.4	0.0	206	0.00
	Jharkhand	1581	0	27.4	21.7	-3.5	107	1.82
	Odisha	4929	0	94.9	32.5	-3.1	346	0.00
	West Bengal	6580	0	122.4	3.5	-2.4	342	0.00
NER	Sikkim	116	0	1.9	1.9	0.0	57	0.00
	Arunachal Pradesh	143	0	2.3	2.2	-0.1	40	0.00
	Assam	1480	0	25.2	21.7	-1.6	96	0.00
	Manipur	204	0	3.0	3.2	-0.1	36	0.00
	Meghalaya	380	0	7.3	6.0	-0.1	43	0.00
	Mizoram	142	0	2.0	1.9	-0.3	10	0.00
	Nagaland	145	0	2.1	2.0	-0.2	18	0.00
	Tripura	220	0	3.6	2.2	0.1	90	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.9	-5.8	-21.2
Day Peak (MW)	-82.0	-219.8	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.3	-131.8	122.3	-180.9	-0.9	0.0
Actual(MU)	186.3	-124.1	124.8	-191.5	-2.6	-7.1
O/D/U/D(MU)	-5.0	7.6	2.5	-10.7	-1.7	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6023	11961	7428	2020	535	27967	47
State Sector	7945	14204	7783	1870	346	32147	53
Total	13968	26164	15211	3890	881	60114	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	741	1430	576	629	15	3391	77
Lignite	26	13	25	0	0	64	1
Hvdro	122	46	89	29	10	297	7
Nuclear	21	37	70	0	0	128	3
Gas, Naptha & Diesel	15	10	6	0	29	59	1
RES (Wind, Solar, Biomass & Others)	143	131	165	2	0	441	10
Total	1068	1667	932	660	54	4381	100
Share of RES in total generation (%)	13.35	7.87	17.73	0.28	0.39	10.07	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.78	12.85	34.82	4.72	19.23	19.77	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.052

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: 28-Dec-2022

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	348	0.0	8.5	-8.5	
3	765 kV	GAYALYARANASI	2	0	868	0.0	10.8	-10.8	
4	765 kV	SASARAM-FATEHPUR	1	0	525	0.0	9.2	-9.2	
5	765 kV	GAYA-BALIA	1	0	696	0.0	11.2	-11.2	
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	207	0.0	4.0	-4.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	945	0.0	14.6	-14.6	
9	400 kV	PATNA-BALIA	2	0	580	0.0	11.4	-11.4	
10	400 kV	NAUBATPUR-BALIA	2	0	636	0.0	11.5	-11.5	
11	400 kV	BIHARSHARIFF-BALIA	2	0	395	0.0	7.9	-7.9	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	591	0.0	10.0	-10.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	388	0.0	6.5	-6.5	
14	220 kV	SINHPUR-KARMANASA	1	3	133	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	13	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	111.7	-111.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	797	281	5.5	0.0	5.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	408	929	0.0	3.5	-3.5	
3	765 kV	JHARSUGUDA-DURG	2	0	639	0.0	10.9	-10.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	550	0.0	9.0	-9.0	
5	400 kV	RANCHI-SIPAT	2	75	352	0.0	3.1	-3.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	63	100	0.0	0.6	-0.6	
						ER-WR	5.5	29.2	-23.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	647	0.0	8.1	-8.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	42.5	-42.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3488	0.0	59.4	-59.4	
4	400 kV	TALCHER-I/C	2	160	724	0.0	10.1	-10.1	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.0	-110.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	214	0	2.8	0.0	2.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	670	0	9.6	0.0	9.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	58	3	0.7	0.0	0.7	
						ER-NER	13.1	0.0	13.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.3	0.0	11.3	
						NER-NR	11.3	0.0	11.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPAKURUKSHETRA	2	0	1015	0.0	24.4	-24.4	
2	HVDC	VINDHYACHAL B/B	-	244	0	6.1	0.0	6.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	1446	0	24.5	0.0	24.5	
4	765 kV	GWALIOR-AGRA	2	0	1971	0.0	25.9	-25.9	
5	765 kV	GWALIOR-PHAGI	2	0	2103	0.0	35.3	-35.3	
6	765 kV	JABALPUR-ORAI	2	0	1115	0.0	32.9	-32.9	
7	765 kV	GWALIOR-ORAI	1	1095	0	17.8	0.0	17.8	
8	765 kV	SATNA-ORAI	1	0	1120	0.0	20.2	-20.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1405	568	11.3	2.1	9.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2514	0.0	35.2	-35.2	
11	400 kV	ZERDA-KANKROLI	1	197	131	0.9	0.0	0.9	
12	400 kV	ZERDA-BHINMAL	1	332	349	0.0	0.2	-0.2	
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	320	655	1.1	5.0	-4.0	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	2	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	114	0	0.3	0.0	0.3	
18	220 kV	MALANPUR-AURAIYA	1	78	7	1.5	0.0	1.5	
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	85.4	183.0	-97.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	987	407	8.4	0.9	7.5	
2	HVDC	RAIGARH-PUGALUR	2	718	1497	0.0	8.3	-8.3	
3	765 kV	SOLAPUR-RAICHUR	2	128	2380	0.0	18.9	-18.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3553	0.0	52.3	-52.3	
5	400 kV	KOLHAPUR-KUDCI	2	1189	0	19.6	0.0	19.6	
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	125	2.4	0.0	2.4	
						WR-SR	30.3	80.5	-50.1
<b>INTERNATIONAL EXCHANGES</b>									
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	-0.50			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	123	107	112	1.57			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.48			
	NER	132kV GELEPHU-SALAKATI	-22	0	-15	-0.36			
	NER	132kV MOTANGA-RANGIA	-11	0	-5	-0.12			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-63	-1.52			
	ER	NEPAL IMPORT (FROM BIHAR)	97	0	-34	-0.82			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-241	0	-145	-3.47			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-935	-512	-790	-18.97			
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-108	0	-92	-2.20			