



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: 23<sup>rd</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 22.12.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22- 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 22<sup>nd</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: 23-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)	53623	58541	42697	19967	2573	177401
Peak Shortage (MW)	183	0	0	791	70	1044
Energy Met (MU)	1141	1450	1015	398	46	4050
Hydro Gen (MU)	124	45	102	31	11	313
Wind Gen (MU)	15	76	34	-	-	126
Solar Gen (MU)*	103.21	52.00	119.59	4.79	0.68	280
Energy Shortage (MU)	2.66	0.00	0.00	4.06	0.18	6.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57336	70339	51723	20464	2654	199071
Time Of Maximum Demand Met (From NLDC SCADA)	10:15	11:02	09:58	17:42	17:42	10:59

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	0.123	0.90	0.79	6.02	7.11	56.72	36.18

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	7354	0	142.8	35.6	-1.3	50	0.00
	Haryana	7804	0	148.2	78.0	-1.3	170	0.00
	Rajasthan	16091	0	309.9	110.6	-1.8	173	1.86
	Delhi	4242	0	73.7	66.7	-1.8	187	0.00
	UP	17615	15	325.9	87.1	-0.6	702	0.17
	Uttarakhand	2213	0	41.4	28.6	-0.2	129	0.38
	HP	1947	0	35.4	27.4	0.3	93	0.00
	J&K(UT) & Ladakh(UT)	2783	60	59.8	56.5	-1.7	5	0.25
	Chandigarh	248	0	4.1	4.2	-0.2	23	0.00
	WR	Chhattisgarh	4725	0	101.9	55.3	0.5	236
Gujarat		19973	0	395.9	219.7	-5.0	621	0.00
MP		16808	0	325.2	194.9	-4.5	292	0.00
Maharashtra		27072	0	557.9	184.2	3.6	779	0.00
Goa		637	0	13.3	12.5	0.3	61	0.00
DNHDDPDCL		1199	0	27.7	28.0	-0.3	30	0.00
AMNSIL		733	0	15.6	10.8	-1.1	219	0.00
BALCO		513	0	12.2	12.2	0.0	0	0.00
SR	Andhra Pradesh	9452	0	183.0	80.0	-1.8	756	0.00
	Telangana	12311	0	213.7	91.4	0.0	1176	0.00
	Karnataka	12394	0	218.3	82.0	1.2	592	0.00
	Kerala	3873	0	77.1	54.4	-0.2	243	0.00
	Tamil Nadu	15043	0	314.1	171.6	-2.3	573	0.00
	Puducherry	394	0	8.5	8.2	-0.4	28	0.00
ER	Bihar	4838	0	81.7	72.5	-1.9	153	1.21
	DVC	3424	0	71.3	-41.8	-0.6	193	0.00
	Jharkhand	1646	118	27.5	22.2	-2.6	250	2.85
	Odisha	4670	0	92.1	31.6	-1.9	201	0.00
	West Bengal	6598	0	124.0	9.5	-2.5	269	0.00
	Sikkim	128	0	1.9	1.9	0.0	20	0.00
NER	Arumachal Pradesh	144	0	2.5	2.5	-0.2	22	0.00
	Assam	1480	0	25.5	20.5	-1.0	58	0.18
	Manipur	232	0	3.4	3.3	0.1	34	0.00
	Meghalaya	382	0	7.0	5.7	0.1	45	0.00
	Mizoram	139	0	2.0	1.9	-0.3	9	0.00
	Nagaland	140	0	2.2	2.2	-0.1	21	0.00
	Tripura	226	0	3.7	2.6	-0.4	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.7	-4.0	-22.5
Day Peak (MW)	102.0	-15.3	-1034.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	159.4	-118.0	122.3	-162.7	-1.0	0.0
Actual(MU)	155.0	-112.1	124.6	-171.9	-2.0	-6.4
OD/UD(MU)	-4.4	5.9	2.4	-9.2	-1.1	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6097	12096	7728	2110	630	28661	47
State Sector	7110	14077	8133	2452	134	31905	53
Total	13207	26173	15861	4562	763	60566	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1453	558	603	15	3376	77
Lignite	31	11	32	0	0	74	2
Hydro	125	45	103	30	11	314	7
Nuclear	25	37	70	0	0	132	3
Gas, Naptha & Diesel	14	4	6	0	28	52	1
RES (Wind, Solar, Biomass & Others)	143	130	182	2	1	458	10
Total	1086	1681	950	635	54	4406	100

Share of RES in total generation (%)	13.16	7.75	19.12	0.34	1.26	10.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.01	12.64	37.36	5.01	21.28	20.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
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: 23-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	2	0	348	0.0	8.4	-8.4	
3	765 kV	GAYA-VARANASI	2	0	661	0.0	9.6	-9.6	
4	765 kV	SASARAM-FATEHPUR	1	0	454	0.0	7.2	-7.2	
5	765 kV	GAYA-BALIA	1	0	602	0.0	11.1	-11.1	
6	400 kV	PUSAULI-VARANASI	1	0	222	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	207	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	793	0.0	11.9	-11.9	
9	400 kV	PATNA-BALIA	2	0	574	0.0	11.4	-11.4	
10	400 kV	NAUBATPUR-BALIA	2	0	645	0.0	12.0	-12.0	
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	6.7	-6.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	609	0.0	9.9	-9.9	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	283	0.0	4.5	-4.5	
14	220 kV	SINPUR-BIKRAMNASHA	1	15	105	0.0	0.9	-0.9	
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	0	2	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	101.9	-101.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	796	286	4.3	0.0	4.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	429	684	0.0	1.4	-1.4	
3	765 kV	JHARSUGUDA-DURG	2	0	602	0.0	10.8	-10.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	587	0.0	9.2	-9.2	
5	400 kV	RANCHI-SIPAT	2	9	264	0.0	2.4	-2.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	173	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	24	136	0.0	1.2	-1.2	
						ER-WR	4.3	27.5	-23.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	100	0	2.6	0.0	2.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2369	0.0	41.8	-41.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3498	0.0	62.0	-62.0	
4	400 kV	TALCHER-I/C	2	209	1119	0.0	9.3	-9.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	2.6	103.8	-101.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	188	0	2.8	0.0	2.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	588	0	9.0	0.0	9.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	54	0	0.7	0.0	0.7	
						ER-NER	12.5	0.0	12.5
<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	CHAMPA-KURUKSHETRA	2	0	1528	0.0	35.5	-35.5	
2	HVDC	VINDHYACHAL B/B	2	245	1	3.2	0.0	3.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	976	0	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	0	1677	0.0	20.7	-20.7	
5	765 kV	GWALIOR-PHAGI	2	0	1791	0.0	28.8	-28.8	
6	765 kV	JABALPUR-ORAI	2	0	978	0.0	27.6	-27.6	
7	765 kV	GWALIOR-ORAI	1	1074	0	17.8	0.0	17.8	
8	765 kV	SATNA-ORAI	1	0	1032	0.0	18.9	-18.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1821	145	14.3	0.1	14.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2101	0.0	31.7	-31.7	
11	400 kV	ZERDA-KANKROLI	1	291	33	2.2	0.0	2.2	
12	400 kV	ZERDA-BHINMAL	1	500	187	2.3	0.0	2.3	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.8	1.9	21.8	
14	400 kV	RAPP-SHULIAPUR	2	401	456	1.9	0.0	0.0	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	139	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	106	0	1.8	0.0	1.8	
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	89.8	166.9	-77.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	791	0	10.0	0.0	10.0	
2	HVDC	RAIGARH-PUGALUR	2	711	4005	0.0	19.4	-19.4	
3	765 kV	SOLAPUR-RAICHUR	2	217	1858	0.1	17.6	-17.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3635	0.0	53.0	-53.0	
5	400 kV	KOLHAPUR-KUDCI	2	1178	0	18.8	0.0	18.8	
6	220 kV	KOLHAPUR-CHIKODI	1	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.5	0.0	0.5	
8	220 kV	XELDEM-AMBEWADI	1	0	118	2.3	0.0	2.3	
						WR-SR	31.7	90.0	-58.4
<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	-0.69			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	211	0	163	3.91			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.09			
	NER	132KV GELEPHU-SALAKATI	-17	1	-14	-0.33			
	NER	132KV MOTANGA-RANGIA	-29	5	-5	-0.11			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-57	-1.36			
	ER	NEPAL IMPORT (FROM BIHAR)	55	0	16	0.38			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	0	0	0	-3.01			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-628	-850	-20.41			
	NER	132KV COMILLA-SURAJMANIAGAR 1&2	-97	0	-86	-2.06			