



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: 16<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 15.12.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15- 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 15<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: 16-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)	50571	57649	41192	19750	2614	171776
Peak Shortage (MW)	1527	0	0	416	0	1943
Energy Met (MU)	1104	1400	908	398	46	3856
Hydro Gen (MU)	127	40	78	31	12	287
Wind Gen (MU)	4	76	40	-	-	119
Solar Gen (MU)*	108.77	43.35	118.27	4.77	0.61	276
Energy Shortage (MU)	17.09	0.00	0.00	2.84	0.00	19.93
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55823	67201	45451	20352	2715	186106
Time Of Maximum Demand Met (From NLDC SCADA)	11:22	10:29	07:39	18:00	17:17	09:41

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	0.103	0.60	3.61	10.66	14.87	57.33	27.80

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	7207	0	137.0	44.2	-0.9	207	0.00
	Haryana	7793	0	142.7	82.4	-1.3	209	1.61
	Rajasthan	15598	72	303.8	124.4	2.1	297	11.95
	Delhi	3860	0	67.7	61.0	-0.9	170	0.00
	UP	17404	0	316.5	77.2	2.3	664	3.12
	Uttarakhand	2117	0	40.8	29.5	0.6	205	0.15
	HP	1944	0	34.4	25.8	-0.3	56	0.00
	J&K(UT) & Ladakh(UT)	2753	0	58.0	55.4	-1.7	34	0.26
	Chandigarh	216	0	3.5	3.6	0.0	18	0.00
	Chhattisgarh	4531	0	98.4	52.3	0.4	695	0.00
WR	Gujarat	19790	0	395.9	227.5	-3.2	703	0.00
	MP	15181	0	298.7	185.3	-1.7	434	0.00
	Maharashtra	26261	0	547.3	176.5	1.5	737	0.00
	Goa	654	0	13.6	12.3	0.7	59	0.00
	DNHDDPDCL	1223	0	28.0	28.0	0.0	137	0.00
	AMNSIL	787	0	17.8	11.4	-0.1	239	0.00
SR	Andhra Pradesh	7854	0	166.8	59.3	-1.6	764	0.00
	Telangana	11407	0	198.8	74.4	-0.5	572	0.00
	Karnataka	9476	0	179.3	54.6	-1.1	897	0.00
	Kerala	3698	0	71.5	50.7	0.2	145	0.00
	Tamil Nadu	14021	0	282.8	141.4	-2.7	547	0.00
	Puducherry	389	0	8.6	8.0	-0.1	54	0.00
ER	Bihar	4531	0	79.7	68.6	-0.8	189	0.70
	DVC	3345	0	69.6	-39.5	0.2	277	0.00
	Jharkhand	1564	0	27.4	19.8	-0.4	326	2.14
	Odisha	4699	0	94.7	32.6	-1.9	342	0.00
	West Bengal	6820	0	124.6	1.7	-2.1	326	0.00
	Sikkim	119	0	1.9	2.0	0.0	38	0.00
NER	Arunachal Pradesh	135	0	2.3	2.3	-0.2	22	0.00
	Assam	1506	0	25.7	19.7	-0.6	65	0.00
	Manipur	237	0	3.3	3.3	0.0	23	0.00
	Meghalaya	375	0	7.0	5.5	0.1	34	0.00
	Mizoram	137	0	1.9	1.8	-0.2	16	0.00
	Nagaland	150	0	2.4	2.3	0.0	15	0.00
	Tripura	220	0	3.8	3.9	0.0	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.4	-2.8	-22.6
Day Peak (MW)	243.0	-243.0	-1048.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.6	-63.9	58.4	-158.3	0.3	0.0
Actual(MU)	155.7	-48.6	49.0	-159.5	-0.7	-4.2
O/D/U/D(MU)	-7.9	15.3	-9.4	-1.2	-1.0	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5989	13851	8018	3490	859	32206	49
State Sector	8545	16173	6415	2535	199	33866	51
Total	14534	30023	14433	6025	1058	66072	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	707	1282	525	561	10	3085	77
Lignite	15	13	25	0	0	53	1
Hydro	127	40	78	31	12	288	7
Nuclear	26	21	59	0	0	105	3
Gas, Naptha & Diesel	15	6	5	0	30	56	1
RES (Wind, Solar, Biomass & Others)	136	121	181	5	1	444	11
Total	1027	1483	873	596	52	4031	100
Share of RES in total generation (%)	13.26	8.16	20.78	0.80	1.18	11.01	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.17	12.27	36.46	5.93	23.39	20.77	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.064

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: 16-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	8.6	-8.6	
3	765 kV	GAYALYANASI	2	51	621	0.0	8.1	-8.1	
4	765 kV	SASARAM-FATEHPUR	1	0	444	0.0	7.2	-7.2	
5	765 kV	GAYA-BALIA	1	0	642	0.0	11.9	-11.9	
6	400 kV	PUSAULI-VARANASI	1	0	243	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	190	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	713	0.0	9.7	-9.7	
9	400 kV	PATNA-BALIA	2	0	522	0.0	8.1	-8.1	
10	400 kV	NAUBATPUR-BALIA	2	0	666	0.0	11.6	-11.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	418	0.0	6.4	-6.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	451	0.0	7.8	-7.8	
13	400 kV	BIHARSHARIFF-VARANASI	2	17	270	0.0	3.2	-3.2	
14	220 kV	SADHUPUR-KARMANASA	1	33	110	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	0.0	0.0	0.0	
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	91.8	-91.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	842	503	1.8	0.0	1.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	549	492	5.2	0.0	5.2	
3	765 kV	JHARSUGUDA-DURG	2	0	631	0.0	9.8	-9.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	657	0.0	9.2	-9.2	
5	400 kV	RANCHI-SIPAT	2	129	233	0.0	0.4	-0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	77	140	0.0	1.3	-1.3	
						ER-WR	7.0	22.8	-15.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	385	0.0	5.1	-5.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	38.5	-38.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3022	0.0	54.8	-54.8	
4	400 kV	TALCHER-I/C	2	637	207	5.3	0.0	5.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	98.4	-98.4
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	241	286	0.8	3.2	-2.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	422	350	0.0	3.3	-3.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	40	40	0.0	0.3	-0.3	
						ER-NER	0.8	6.8	-6.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	463	502	0.0	6.0	-6.0	
						NER-NR	0.0	6.0	-6.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPACKURUKSHETRA	2	0	1521	0.0	27.1	-27.1	
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	689	0	16.5	0.0	16.5	
4	765 kV	GWALIOR-AGRA	2	214	1076	0.0	13.3	-13.3	
5	765 kV	GWALIOR-PHAGI	2	0	1965	0.0	34.7	-34.7	
6	765 kV	JABALPUR-ORAI	2	0	890	0.0	27.8	-27.8	
7	765 kV	GWALIOR-ORAI	1	964	0	16.8	0.0	16.8	
8	765 kV	SATNA-ORAI	1	0	913	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2532	72	24.0	0.0	24.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2217	0.0	37.1	-37.1	
11	400 kV	ZERDA-KANKROLI	1	367	33	3.0	0.0	3.0	
12	400 kV	ZERDA-BHINMAL	1	496	249	1.3	0.0	1.3	
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.3	0.0	21.3	
14	400 kV	RAPP-SHUALPUR	2	362	410	0.0	1.7	-1.7	
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	149	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	111	0	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	93.2	160.9	-67.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	990	0	19.8	0.0	19.8	
2	HVDC	RAIGARH-PUGALUR	2	2875	2499	15.5	0.0	15.5	
3	765 kV	SOJAPUR-RAICHUR	2	1160	2093	0.0	9.9	-9.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3241	0.0	45.8	-45.8	
5	400 kV	KOLHAPUR-KUDCI	2	1377	0	20.9	0.0	20.9	
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	124	2.3	0.0	2.3	
						WR-SR	59.0	55.7	3.3
<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	-0.33			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	203	131	136	3.27			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.83			
	NER	132kV GELEPHU-SALAKATI	1	1	1	0.02			
	NER	132kV MOTANGA-RANGIA	21	2	10	0.24			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-57	-1.36			
	ER	NEPAL IMPORT (FROM BHAR)	0	0	0	0.00			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-167	0	-59	-1.41			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-630	-851	-20.42			
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-111	0	-93	-2.22			