



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: 15<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 14.12.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14- 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 14<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: 15-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)	50223	57183	40763	19679	2621	170469
Peak Shortage (MW)	655	0	0	476	0	1131
Energy Met (MU)	1115	1403	889	401	46	3855
Hydro Gen (MU)	129	34	78	28	11	281
Wind Gen (MU)	26	129	43	-	-	198
Solar Gen (MU)*	107.02	40.19	90.98	4.94	0.70	244
Energy Shortage (MU)	2.82	0.00	0.00	3.51	0.00	6.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57131	67092	44291	20168	2709	186105
Time Of Maximum Demand Met (From NLDC SCADA)	09:15	10:36	07:42	17:54	17:36	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	0.078	0.16	2.04	7.09	9.29	60.85	29.86

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	7359	0	139.9	47.6	-1.3	201	0.00
	Haryana	7683	0	144.1	78.9	-0.3	168	0.00
	Rajasthan	16067	0	311.2	107.3	1.5	211	2.32
	Delhi	3942	0	69.7	61.4	-0.4	191	0.00
	UP	16685	0	312.2	81.1	-0.8	278	0.00
	Uttarakhand	2189	0	40.6	30.0	0.7	223	0.04
	HP	1975	0	35.4	26.7	-0.1	62	0.15
	J&K(UT) & Ladakh(UT)	2685	0	58.7	55.7	-2.2	31	0.31
	Chandigarh	228	0	3.6	3.6	0.0	23	0.00
	Chhattisgarh	4489	0	96.5	42.3	0.2	241	0.00
WR	Gujarat	18844	0	394.4	209.8	-3.2	529	0.00
	MP	16034	0	304.0	186.2	-1.2	565	0.00
	Maharashtra	26367	0	551.6	180.4	-0.4	673	0.00
	Goa	647	0	12.8	12.6	-0.5	48	0.00
	DNHDDPDCL	1228	0	28.1	28.1	0.0	125	0.00
SR	AMNSIL	795	0	15.9	9.0	0.4	268	0.00
	Andhra Pradesh	7955	0	165.4	51.9	-0.3	472	0.00
	Telangana	11094	0	192.5	72.6	-0.4	602	0.00
	Karnataka	9080	0	172.8	53.9	-2.0	759	0.00
	Kerala	3465	0	71.5	51.2	0.2	280	0.00
	Tamil Nadu	13793	0	278.5	146.7	-1.6	496	0.00
	Puducherry	384	0	8.3	7.7	-0.1	52	0.00
ER	Bihar	4465	0	82.1	69.4	0.7	158	0.52
	DVC	3406	0	68.8	-39.9	-0.9	432	0.00
	Jharkhand	1623	0	28.0	19.1	0.2	540	2.99
	Odisha	4729	0	93.6	31.3	-1.4	435	0.00
	West Bengal	7018	0	126.7	5.6	-1.8	330	0.00
NER	Sikkim	122	0	1.9	2.0	0.0	9	0.00
	Arunachal Pradesh	146	0	2.3	2.3	-0.1	37	0.00
	Assam	1510	0	25.8	20.0	-0.6	98	0.00
	Manipur	227	0	3.3	3.3	0.0	27	0.00
	Meghalaya	376	0	7.0	5.4	0.1	43	0.00
	Mizoram	140	0	1.9	1.8	-0.2	14	0.00
	Nagaland	147	0	2.3	2.1	0.0	23	0.00
	Tripura	220	0	3.7	3.7	0.3	85	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.0	-2.4	-22.9
Day Peak (MW)	113.1	-258.0	-1053.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.4	-84.6	55.2	-147.0	6.9	0.0
Actual(MU)	144.3	-72.5	57.4	-140.7	7.0	-4.5
O/D/U/D(MU)	-25.1	12.1	2.2	6.3	0.1	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5989	13191	8178	3490	859	31706	49
State Sector	8205	15515	6915	2035	199	32868	51
Total	14194	28705	15093	5525	1058	64574	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	699	1267	521	546	5	3037	75
Lignite	19	13	22	0	0	55	1
Hvdro	129	34	78	28	11	282	7
Nuclear	26	21	65	0	0	112	3
Gas, Naptha & Diesel	15	6	5	0	26	52	1
RES (Wind, Solar, Biomass & Others)	158	171	157	5	1	490	12
Total	1046	1513	848	579	43	4028	100

Share of RES in total generation (%)	15.06	11.28	18.48	0.85	1.61	12.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.90	14.96	35.35	5.73	27.72	21.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.059

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: 15-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	2	346	0.0	7.6	-7.6	
3	765 kV	GAYA-VARANASI	2	320	591	0.0	6.6	-6.6	
4	765 kV	SASARAM-FATEHPUR	1	33	493	0.0	6.0	-6.0	
5	765 kV	GAYA-BALIA	1	0	609	0.0	10.6	-10.6	
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	27	180	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	10	568	0.0	6.5	-6.5	
9	400 kV	PATNA-BALIA	2	0	502	0.0	7.9	-7.9	
10	400 kV	NAUBATPUR-BALIA	2	0	477	0.0	6.3	-6.3	
11	400 kV	BIHARSHARIFF-BALIA	2	98	277	0.0	2.1	-2.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	398	0.0	6.3	-6.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	126	250	0.0	2.5	-2.5	
14	220 kV	SINPUR-BIKARANMANSI	1	22	103	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	70.6	-70.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	932	395	5.4	0.0	5.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	774	343	6.2	0.0	6.2	
3	765 kV	JHARSUGUDA-DURG	2	0	526	0.0	7.9	-7.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	56	527	0.0	6.6	-6.6	
5	400 kV	RANCHI-SIPAT	2	204	204	0.5	0.0	0.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	170	66	0.7	0.0	0.7	
						ER-WR	12.8	16.7	-3.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	36.2	-36.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2997	0.0	52.9	-52.9	
4	400 kV	TALCHER-I/C	2	629	266	5.5	0.0	5.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	96.6	-96.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	484	0.0	8.0	-8.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	124	501	0.0	10.1	-10.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	60	0.0	1.0	-1.0	
						ER-NER	0.0	19.2	-19.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1010	0.0	24.1	-24.1	
2	HVDC	VINDHYACHAL B/B	2	272	0	7.3	0.0	7.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	975	0	22.3	0.0	22.3	
4	765 kV	GWALIOR-AGRA	2	49	1308	0.0	17.0	-17.0	
5	765 kV	GWALIOR-PHAGI	2	0	1726	0.0	28.4	-28.4	
6	765 kV	JABALPUR-ORAI	2	0	892	0.0	25.9	-25.9	
7	765 kV	GWALIOR-ORAI	1	890	0	15.0	0.0	15.0	
8	765 kV	SATNA-ORAI	1	0	982	0.0	18.2	-18.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1650	266	11.8	0.0	11.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2479	0.0	38.0	-38.0	
11	400 kV	ZERDA-KANKROLI	1	281	62	1.9	0.0	1.9	
12	400 kV	ZERDA-BHINMAL	1	492	278	0.8	0.0	0.8	
13	400 kV	VINDHYACHAL-RIHAND	1	953	0	21.1	0.0	21.1	
14	400 kV	RAPP-SHULIAPUR	2	412	407	0.0	0.9	-0.9	
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	151	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	114	0	1.7	0.0	1.7	
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	83.0	154.2	-71.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	984	0	18.5	0.0	18.5	
2	HVDC	RAIGARH-PUGALUR	2	1002	746	4.7	0.0	4.7	
3	765 kV	SOLAPUR-RAICHUR	2	1409	1534	0.0	9.1	-9.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2998	0.0	41.8	-41.8	
5	400 kV	KOLHAPUR-KUDCI	2	1270	0	20.2	0.0	20.2	
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	125	2.3	0.0	2.3	
						WR-SR	45.8	50.9	-5.2
<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	-1.03			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	152	92	113	2.72			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.89			
	NER	132kV GELEPHU-SALAKATI	1	1	1	0.03			
NEPAL	NER	132kV MOTANGA-RANGIA	11	1	6	0.15			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-56	-1.35			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-183	-1	-45	-1.08			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-635	-856	-20.55			
BANGLADESH	NER	132kV COMILLA-SURAJMANI 1&2	-116	0	-97	-2.32			