



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: 21st 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 20.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20- 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 20th 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: 21-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)	50941	59423	42034	19920	2580	174898
Peak Shortage (MW)	2102	0	0	510	0	2612
Energy Met (MU)	1089	1447	982	404	45	3968
Hydro Gen (MU)	128	44	97	29	11	309
Wind Gen (MU)	3	31	54	-	-	88
Solar Gen (MU)*	84.55	52.17	107.24	2.40	0.70	247
Energy Shortage (MU)	16.53	0.00	0.00	3.43	0.02	19.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53858	69619	49536	20488	2650	191821
Time Of Maximum Demand Met (From NLDC SCADA)	11:40	10:51	11:59	18:04	18:26	10:51

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	0.303	6.39	4.96	9.35	20.70	45.05	34.24

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	6496	0	125.0	25.4	-2.1	80	0.00	
	Haryana	7753	0	140.7	84.2	-1.9	126	3.08	
	Rajasthan	15931	0	311.9	133.4	-3.9	35	4.83	
	Delhi	4070	0	70.4	65.0	-1.3	205	0.00	
	UP	16925	613	302.7	71.2	-1.6	661	8.11	
	Uttarakhand	2133	150	41.3	28.4	0.8	180	0.41	
	HP	1890	0	34.3	26.4	0.0	89	0.00	
	J&K(UT) & Ladakh(UT)	2708	0	58.7	55.1	-1.4	79	0.10	
	Chandigarh	235	0	3.9	3.8	0.1	41	0.00	
	WR	Chhattisgarh	4666	0	100.5	54.0	0.6	276	0.00
Gujarat		19647	0	405.6	242.0	-3.3	561	0.00	
MP		16404	0	320.2	185.3	-2.5	632	0.00	
Maharashtra		26670	0	551.2	180.4	-1.7	919	0.00	
Goa		631	0	12.7	12.3	-0.2	33	0.00	
DNHDDPDCL		1218	0	27.1	27.4	-0.3	65	0.00	
AMNSIL		803	0	17.6	10.9	0.1	215	0.00	
BALCO		512	0	12.2	12.4	-0.2	0	0.00	
SR		Andhra Pradesh	8990	0	178.3	57.2	-1.3	481	0.00
		Telangana	12030	0	208.2	85.2	-1.4	479	0.00
	Karnataka	11590	0	208.5	71.1	2.0	1159	0.00	
	Kerala	3912	0	76.3	52.8	-0.2	154	0.00	
	Tamil Nadu	14437	0	302.4	166.6	0.3	938	0.00	
	Puducherry	382	0	8.6	8.2	-0.3	57	0.00	
ER	Bihar	4753	0	85.0	72.4	-0.1	398	0.05	
	DVC	3624	0	71.1	-39.2	0.4	516	0.00	
	Jharkhand	1591	0	28.7	21.0	-1.3	169	3.38	
	Odisha	5007	0	97.0	32.0	-0.4	397	0.00	
	West Bengal	6551	0	120.7	9.8	-1.8	460	0.00	
	Sikkim	125	0	2.0	1.9	0.1	25	0.00	
NER	Arumachal Pradesh	134	0	2.4	2.4	-0.2	44	0.00	
	Assam	1505	0	24.9	20.1	-1.7	69	0.02	
	Manipur	229	0	3.2	3.3	-0.1	37	0.00	
	Meghalaya	383	0	7.0	6.2	-0.1	46	0.00	
	Mizoram	136	0	2.0	1.9	-0.3	10	0.00	
	Nagaland	144	0	2.4	2.2	0.0	18	0.00	
	Tripura	218	0	3.7	4.2	-0.3	17	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.2	-4.4	-22.4
Day Peak (MW)	155.0	-325.0	-1048.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.6	-64.9	74.9	-175.3	-0.4	0.0
Actual(MU)	170.9	-59.7	68.3	-181.4	-4.5	-6.5
OD/UD(MU)	5.3	5.2	-6.7	-6.1	-4.2	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6537	13556	7828	2110	765	30796	49
State Sector	6315	13601	8729	3202	220	32067	51
Total	12852	27157	16557	5312	985	62862	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	706	1425	571	623	15	3339	77
Lignite	27	12	38	0	0	77	2
Hvdro	129	45	98	30	11	312	7
Nuclear	26	37	70	0	0	133	3
Gas, Naptha & Diesel	15	5	5	0	30	56	1
RES (Wind, Solar, Biomass & Others)	112	89	189	2	1	393	9
Total	1015	1612	971	655	56	4309	100

Share of RES in total generation (%)	11.06	5.51	19.43	0.37	1.24	9.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.34	10.56	36.70	4.89	20.32	19.42

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.066

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: 21-Dec-2022			
						Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
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	853	0.0	13.9	-13.9	
4	765 kV	SASARAM-FATEHPUR	1	5	464	0.0	3.8	-3.8	
5	765 kV	GAYA-BALIA	1	0	639	0.0	10.7	-10.7	
6	400 kV	PUSAULI-VARANASI	1	0	273	0.0	5.2	-5.2	
7	400 kV	PUSAULI-ALLAHABAD	1	69	190	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	878	0.0	14.1	-14.1	
9	400 kV	PATNA-BALIA	2	0	753	0.0	14.3	-14.3	
10	400 kV	NAUBATPUR-BALIA	2	0	701	0.0	8.2	-8.2	
11	400 kV	BIHARSHARIFF-BALIA	2	0	492	0.0	8.3	-8.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	664	0.0	11.9	-11.9	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	313	0.0	5.2	-5.2	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	118	0.0	1.5	-1.5	
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	108.4	-107.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	568	547	1.6	0.0	1.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	419	728	0.0	3.6	-3.6	
3	765 kV	JHARSUGUDA-DURG	2	0	499	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	666	0.0	10.5	-10.5	
5	400 kV	RANCHI-SIPAT	2	42	302	0.0	2.9	-2.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	7	150	0.0	1.2	-1.2	
						ER-WR	1.6	28.2	-26.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	560	0.0	7.7	-7.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2002	0.0	36.9	-36.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3249	0.0	59.0	-59.0	
4	400 kV	TALCHER-I/C	2	188	695	0.0	4.2	-4.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	103.6	-103.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	309	0	4.6	0.0	4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	584	0	9.7	0.0	9.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	54	0	0.9	0.0	0.9	
						ER-NER	15.2	0.0	15.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.3	0.0	11.3	
						NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2550	0.0	41.4	-41.4	
2	HVDC	VINDHYACHAL B/B	2	246	0	3.1	0.0	3.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	70	2308	0.0	27.4	-27.3	
5	765 kV	GWALIOR-PHAGI	2	0	2419	0.0	41.6	-41.6	
6	765 kV	JABALPUR-ORAI	2	0	1096	0.0	31.3	-31.3	
7	765 kV	GWALIOR-ORAI	1	1311	0	20.8	0.0	20.8	
8	765 kV	SATNA-ORAI	1	0	1078	0.0	19.8	-19.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1958	0	25.5	0.0	25.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2117	0.0	22.5	-22.5	
11	400 kV	ZERDA-KANKROLI	1	281	15	3.1	0.0	3.1	
12	400 kV	ZERDA-JBHINMAL	1	411	157	2.0	0.0	2.0	
13	400 kV	VINDHYACHAL-RIHAND	1	956	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHULIAPUR	2	273	590	0.7	4.5	-3.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	158	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	121	3	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	103.7	189.9	-86.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	11.3	0.0	11.3	
2	HVDC	RAIGARH-PUGALUR	2	2879	0	36.7	0.0	36.7	
3	765 kV	SOLAPUR-RAICHUR	2	861	1831	0.6	20.7	-20.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	3077	0.0	48.4	-48.4	
5	400 kV	KOLHAPUR-KUDCI	2	1310	0	18.0	0.0	18.0	
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	1	123	2.2	0.0	2.2	
						WR-SR	68.9	69.1	-0.2
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	0	-0.72		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	172	137	146	3.51			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.05			
	NER	132KV GELEPHU-SALAKATI	18	13	16	0.38			
NEPAL	NER	132KV MOTANGA-RANGIA	11	0	3	0.06			
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-57	-1.37			
BANGLADESH	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00			
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-252	0	-126	-3.02			
BANGLADESH	PUGALUR	BHERAMARA B/B HVDC (BANGLADESH)	-934	-631	-843	-20.22			
	NER	132KV COMILLA-SURAJMANNAGAR 1&2	-114	0	-92	-2.20			