



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: 20th 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 19.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19- 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 19th 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: 20-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)	50912	57764	41475	19858	2599	172608
Peak Shortage (MW)	1765	0	0	559	0	2324
Energy Met (MU)	1097	1408	957	402	45	3908
Hydro Gen (MU)	130	36	88	32	11	297
Wind Gen (MU)	2	34	50	-	-	86
Solar Gen (MU)*	92.43	53.78	103.35	2.24	0.77	253
Energy Shortage (MU)	9.58	0.00	0.00	4.52	0.02	14.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55763	68555	48342	20545	2625	193394
Time Of Maximum Demand Met (From NLDC SCADA)	11:13	11:10	10:58	08:49	17:36	11:13

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	0.098	0.41	4.66	10.40	15.38	59.55	25.07

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	6817	0	133.9	28.4	-2.3	108	0.00
	Haryana	7629	0	139.2	85.5	-1.0	205	0.72
	Rajasthan	16199	0	306.3	134.3	-0.3	179	7.07
	Delhi	3867	0	68.8	65.5	-1.2	224	0.00
	UP	17698	55	314.3	78.6	-1.9	216	0.36
	Uttarakhand	2072	0	38.7	26.3	0.1	110	0.99
	HP	1929	0	33.7	25.4	0.1	130	0.00
	J&K(UT) & Ladakh(UT)	2716	0	58.1	55.1	-1.3	152	0.44
	Chandigarh	222	0	3.7	3.7	0.0	31	0.00
	WR	Chhattisgarh	4557	0	98.6	49.6	-0.5	223
Gujarat		20111	0	394.1	269.9	-0.9	1147	0.00
MP		16327	0	315.3	186.3	-1.7	545	0.00
Maharashtra		26293	0	544.4	178.9	-1.5	494	0.00
Goa		561	0	11.6	11.2	-0.2	43	0.00
DNHDDPDCL		1111	0	25.8	26.2	-0.4	84	0.00
AMNSIL		802	0	18.0	11.3	0.2	242	0.00
Andhra Pradesh		8488	0	173.9	52.1	-1.6	536	0.00
Telangana		11687	0	206.4	83.1	-0.5	720	0.00
SR		Karnataka	11370	0	199.8	67.5	1.1	763
	Kerala	3744	0	73.9	52.7	-0.3	266	0.00
	Tamil Nadu	14455	0	294.3	157.0	0.5	808	0.00
	Puducherry	395	0	8.5	8.0	-0.2	23	0.00
	ER	Bihar	4917	0	83.3	70.6	-0.1	596
DVC		3403	0	69.2	-42.2	-0.7	581	0.00
Jharkhand		1690	147	29.2	20.8	-0.6	213	3.12
Odisha		5099	0	96.1	30.9	-1.3	285	0.00
West Bengal		6776	0	121.8	-1.8	-1.9	327	0.00
Sikkim		128	0	1.9	1.8	0.1	41	0.00
NER	Arumachal Pradesh	137	0	2.3	2.4	-0.3	19	0.00
	Assam	1460	0	24.9	19.7	-1.3	48	0.02
	Manipur	232	0	3.3	3.3	0.0	28	0.00
	Meghalaya	364	0	6.8	6.0	0.0	32	0.00
	Mizoram	135	0	2.0	2.0	-0.3	16	0.00
	Nagaland	136	0	2.4	2.2	0.0	19	0.00
	Tripura	221	0	3.6	4.1	-0.2	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.5	-4.5	-22.6
Day Peak (MW)	143.6	-300.0	-1047.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	157.5	-48.0	66.4	-177.5	1.7	0.0
Actual(MU)	161.5	-40.2	61.5	-184.6	-1.6	-3.3
OD/UD(MU)	4.1	7.8	-4.9	-7.1	-3.2	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6247	12896	7828	2070	744	29784	46
State Sector	8635	15696	7643	2952	220	35146	54
Total	14882	28592	15471	5022	964	64930	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	718	1389	571	615	11	3304	78
Lignite	22	10	40	0	0	72	2
Hydro	131	37	89	31	11	298	7
Nuclear	26	37	70	0	0	133	3
Gas, Naptha & Diesel	11	2	6	0	30	49	1
RES (Wind, Solar, Biomass & Others)	120	88	180	2	1	391	9
Total	1027	1563	956	648	52	4247	100

Share of RES in total generation (%)	11.66	5.63	18.87	0.35	1.47	9.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.93	10.33	35.49	5.12	21.88	19.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.054

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:		NET (MU)	
						Import (MU)	Export (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	8.3	-8.3	
3	765 kV	GAYALYARANASI	2	0	1249	0.0	19.1	-19.1	
4	765 kV	SASARAM-FATEHPUR	1	0	577	0.0	9.5	-9.5	
5	765 kV	GAYA-BALIA	1	0	681	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	209	0.0	3.8	-3.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	898	0.0	15.0	-15.0	
9	400 kV	PATNA-BALIA	2	0	797	0.0	13.1	-13.1	
10	400 kV	NAUBATPUR-BALIA	2	0	690	0.0	7.3	-7.3	
11	400 kV	BIHARSHARIFF-BALIA	2	0	582	0.0	9.1	-9.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	694	0.0	11.7	-11.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	375	0.0	6.2	-6.2	
14	220 kV	SINPUR-BIKRAMNASHA	1	8	126	0.0	1.3	-1.3	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	30	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	113.5	-113.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	713	352	3.9	0.0	3.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	442	590	0.0	0.9	-0.9	
3	765 kV	JHARSUGUDA-DURG	2	0	577	0.0	9.7	-9.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	640	0.0	9.9	-9.9	
5	400 kV	RANCHI-SIPAT	2	69	287	0.0	2.9	-2.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	147	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	34	88	0.0	0.6	-0.6	
						ER-WR	3.9	26.3	-22.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	128	0.0	2.6	-2.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	38.8	-38.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3389	0.0	60.5	-60.5	
4	400 kV	TALCHER-I/C	2	165	706	0.0	6.1	-6.1	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	102.0	-102.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	279	0	4.2	0.0	4.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	433	0	7.3	0.0	7.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	45	0	0.7	0.0	0.7	
						ER-NER	12.2	0.0	12.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	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	1530	0.0	23.8	-23.8	
2	HVDC	VINDHYACHAL B/B	2	245	253	1.9	1.7	0.2	
3	HVDC	MUNDRAL-MOHINDERGARH	2	1445	0	33.0	0.0	33.0	
4	765 kV	GWALIOR-AGRA	2	0	1277	0.0	17.5	-17.5	
5	765 kV	GWALIOR-PHAGI	2	0	2524	0.0	44.7	-44.7	
6	765 kV	JABALPUR-ORAI	2	0	1091	0.0	31.1	-31.1	
7	765 kV	GWALIOR-ORAI	1	1157	0	18.8	0.0	18.8	
8	765 kV	SATNA-ORAI	1	0	1065	0.0	19.7	-19.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2065	0	26.3	0.0	26.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2450	0.0	33.2	-33.2	
11	400 kV	ZERDA-KANKROLI	1	313	42	3.4	0.0	3.4	
12	400 kV	ZERDA-JBHINMAL	1	430	239	1.8	0.0	1.8	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHILAI PUR	2	235	640	0.5	4.4	-3.9	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	2.2	-2.2	
17	220 kV	MEHGAON-AURAIYA	1	150	0	1.0	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	111	10	1.6	0.0	1.6	
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	109.9	178.3	-68.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	15.4	0.0	15.4	
2	HVDC	RAIGARH-PUGALUR	2	2878	0	30.7	0.0	30.7	
3	765 kV	SOLAPUR-RAICHUR	2	845	1791	0.6	15.1	-14.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3348	0.0	46.8	-46.8	
5	400 kV	KOLHAPUR-KUDCI	2	1202	0	19.3	0.0	19.3	
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	112	1.5	0.0	1.5	
						WR-SR	67.5	61.8	5.7
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	-0.36		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	171	126	134	3.21			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.01			
	NER	132KV GELEPHU-SALAKATI	-15	0	-13	-0.30			
	NER	132KV MOTANGA-RANGIA	-11	0	-4	-0.09			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-56	-1.34			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-230	0	-130	-3.12			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-628	-849	-20.38			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-113	0	-93	-2.24			