



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन 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: 18th Dec 2021

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 17.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-दिसंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 17th December 2021, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 18-Dec-2021

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)	52666	55423	40229	19136	2576	170030
Peak Shortage (MW)	250	0	0	0	0	250
Energy Met (MU)	1051	1275	901	376	44	3648
Hydro Gen (MU)	113	33	87	29	6	268
Wind Gen (MU)	21	126	36	-	-	182
Solar Gen (MU)*	55.57	33.34	98.10	4.87	0.02	192
Energy Shortage (MU)	5.54	0.00	0.00	4.22	0.00	9.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53575	61789	44414	19529	2631	175146
Time Of Maximum Demand Met (From NLDC SCADA)	18:27	10:50	08:05	17:48	17:23	10:53

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	0.044	0.00	0.62	3.90	4.52	63.86	31.62

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	7114	0	135.7	80.6	-0.4	173	0.76
	Haryana	7104	0	134.4	92.0	0.2	171	0.00
	Rajasthan	15069	0	271.6	79.2	0.4	490	0.00
	Delhi	4238	0	69.3	57.7	-1.1	138	0.00
	UP	17115	0	299.2	100.7	-1.1	496	0.00
	Uttarakhand	2164	0	40.6	26.7	0.7	117	0.13
	HP	1907	0	36.2	27.7	0.8	400	0.00
	J&K(UT) & Ladakh(UT)	2755	300	60.1	53.8	1.1	183	4.65
	Chandigarh	238	0	3.8	4.2	-0.3	37	0.00
	Chhattisgarh	3756	0	81.2	28.4	0.0	302	0.00
WR	Gujarat	17244	0	354.0	163.2	0.5	756	0.00
	MP	15278	0	297.6	179.7	-0.1	639	0.00
	Maharashtra	23806	0	484.8	133.3	-3.0	697	0.00
	Goa	592	0	12.5	11.9	0.0	47	0.00
	DD	331	0	7.3	7.1	0.2	46	0.00
	DNH	826	0	19.0	18.9	0.1	77	0.00
	AMNSIL	858	0	19.0	8.1	-0.1	331	0.00
	Andhra Pradesh	8336	0	166.3	78.9	0.8	341	0.00
	Telangana	9739	0	179.1	63.8	-0.7	764	0.00
	Karnataka	9932	0	181.7	35.6	-0.7	583	0.00
SR	Kerala	3839	0	77.0	50.7	0.3	206	0.00
	Tamil Nadu	14112	0	289.7	173.8	-0.1	674	0.00
	Puducherry	355	0	7.1	7.2	-0.2	35	0.00
	Bihar	4545	0	76.0	65.9	-0.9	356	0.00
	DVC	3075	0	63.3	-43.0	-2.0	322	2.24
	Jharkhand	1627	0	28.5	22.8	-1.7	132	1.98
	Odisha	4942	0	95.8	28.6	0.0	333	0.00
	West Bengal	6207	0	110.9	-8.2	0.8	345	0.00
	Sikkim	114	0	2.0	1.8	0.2	49	0.00
	NER	Arunachal Pradesh	127	0	2.2	2.2	-0.1	35
Assam		1457	0	23.7	18.3	-0.9	89	0.00
Manipur		237	0	3.3	3.3	0.0	26	0.00
Meghalaya		388	0	7.4	5.7	0.2	39	0.00
Mizoram		123	0	1.9	1.5	0.0	16	0.00
Nagaland		135	0	2.4	2.2	0.1	32	0.00
Tripura		225	0	3.5	1.8	-0.5	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.9	-2.8	-12.8
Day Peak (MW)	296.0	-263.9	-757.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	253.0	-167.6	76.7	-162.4	0.3	0.0
Actual(MU)	246.9	-159.7	74.7	-167.9	1.1	-4.8
O/D/U/D(MU)	-6.0	8.0	-2.0	-5.5	0.8	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6947	14813	7442	2360	830	32392	43
State Sector	11466	18276	10431	3508	11	43691	57
Total	18413	33088	17873	5868	841	76082	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	548	1210	473	531	12	2774	74
Lignite	24	10	37	0	0	71	2
Hydro	113	33	87	29	6	268	7
Nuclear	28	33	70	0	0	130	3
Gas, Naptha & Diesel	15	10	9	0	29	64	2
RES (Wind, Solar, Biomass & Others)	103	160	162	5	0	430	12
Total	830	1457	838	564	48	3737	100

Share of RES in total generation (%)	12.38	11.01	19.35	0.86	0.04	11.51
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.28	15.53	38.01	5.94	13.33	22.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.084

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: 18-Dec-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	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	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	1103	0.0	13.9	-13.9	
4	765 kV	SASARAM-FATEHPUR	1	0	700	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	627	0.0	11.3	-11.3	
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	2.2	-2.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	239	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	719	0.0	9.7	-9.7	
9	400 kV	PATNA-BALIA	4	0	1529	0.0	25.5	-25.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	540	0.0	8.3	-8.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	459	0.0	7.7	-7.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	380	0.0	6.0	-6.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	136	0.0	1.8	-1.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	23	0.0	0.0	0.0	
						ER-NR	0.3	92.0	-91.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	461	791	0.0	3.2	-3.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	82	803	0.0	8.3	-8.3	
3	765 kV	JHARSUGUDA-DURG	2	76	237	0.0	1.7	-1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	210	384	0.0	2.3	-2.3	
5	400 kV	RANCHI-SIPAT	2	88	298	0.0	2.8	-2.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	74	30	0.4	0.0	0.4	
						ER-WR	0.4	20.1	-19.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	283	0	4.9	0.0	4.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	37.6	-37.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2676	0.0	50.5	-50.5	
4	400 kV	TALCHER-I/C	2	916	908	2.3	0.0	2.3	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	4.9	88.0	-83.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	406	0.0	5.2	-5.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	566	0.0	6.7	-6.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	101	0.0	1.2	-1.2	
						ER-NER	0.0	13.0	-13.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	503	0.0	12.1	-12.1	
						NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3521	0.0	47.3	-47.3	
2	HVDC	VINDHYACHAL B/B	-	206	1	3.3	0.0	3.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1912	0.0	29.8	-29.8	
5	765 kV	GWALIOR-PHAGI	2	0	2252	0.0	29.5	-29.5	
6	765 kV	JABALPUR-ORAI	2	0	907	0.0	28.3	-28.3	
7	765 kV	GWALIOR-ORAI	1	859	0	15.7	0.0	15.7	
8	765 kV	SAINA-ORAI	1	0	1049	0.0	19.1	-19.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	779	139	4.3	0.0	4.3	
10	765 kV	VINDHYACHAL-VARANASI	0	0	2141	0.0	35.7	-35.7	
11	400 kV	ZERDA-KANKROLI	1	188	0	2.2	0.0	2.2	
12	400 kV	ZERDA-BHINMAL	1	227	157	1.7	0.0	1.7	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	20.6	0.0	20.6	
14	400 kV	RAPP-SHILJALPUR	2	177	380	0.6	2.9	-2.3	
15	220 kV	BHANPURA-RANPUR	1	65	90	0.3	0.5	-0.2	
16	220 kV	BHANPURA-MORAK	1	0	30	1.0	0.1	1.0	
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	76	0	2.1	0.0	2.1	
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	53.0	199.3	-146.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	496	1009	6.7	3.3	3.4	
2	HVDC	RAIGARH-PUGALUR	2	1452	1800	0.0	5.0	-5.0	
3	765 kV	SOLAPUR-RAICHUR	2	508	1412	1.0	13.8	-11.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2640	0.0	41.2	-41.2	
5	400 kV	KOLHAPUR-KUDGI	2	1355	0	20.4	0.0	20.4	
6	220 kV	KOLHAPUR-CHIKODI	2	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	76	1.2	0.0	1.2	
						WR-SR	29.3	62.3	-33.0

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	102	0	73	1.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	163	151	163	3.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	8	1	4	0.1
	NER	132kV MOTANGA-RANGIA	9	1	4	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-39	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	130	0	19	0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-355	30	-133	-3.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-671	-340	-461	-11.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-86	0	-70	-1.7