



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: 25th 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 24.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	53836	56051	40269	19315	2608	172079
Peak Shortage (MW)	250	945	0	543	0	1738
Energy Met (MU)	1086	1304	944	408	46	3788
Hydro Gen (MU)	106	38	87	28	11	269
Wind Gen (MU)	5	16	18	-	-	38
Solar Gen (MU)*	48.22	33.67	104.26	5.02	0.26	191
Energy Shortage (MU)	4.99	7.51	0.00	5.55	0.00	18.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55644	62663	47038	20154	2686	183394
Time Of Maximum Demand Met (From NLDC SCADA)	10:52	11:41	09:55	17:53	17:45	10:57

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	0.034	0.00	0.00	5.55	5.55	73.12	21.33

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	6882	0	129.9	65.7	-1.3	110	0.00
	Haryana	7152	0	135.8	71.8	1.0	263	0.00
	Rajasthan	15696	0	287.5	84.8	1.6	603	0.24
	Delhi	4548	0	73.3	61.8	-0.6	293	0.00
	UP	18039	0	321.5	89.7	0.5	428	0.00
	Uttarakhand	2303	0	42.6	29.4	0.6	146	0.08
	HP	1931	20	35.1	28.2	-0.3	176	0.02
	J&K(UT) & Ladakh(UT)	2744	300	57.1	55.4	-3.3	109	4.65
WR	Chandigarh	216	0	3.5	3.8	-0.3	34	0.00
	Chhattisgarh	4004	0	84.5	35.1	0.2	253	0.00
	Gujarat	17448	38	372.2	214.0	5.2	945	7.51
	MP	15917	0	305.1	193.5	-0.3	450	0.00
	Maharashtra	24235	0	486.5	134.5	-4.3	624	0.00
	Goa	583	0	11.9	11.0	0.4	43	0.00
	DD	335	0	7.5	7.1	0.4	38	0.00
	DNH	838	0	19.3	19.4	-0.1	60	0.00
SR	AMNSIL	737	0	16.5	7.1	0.0	295	0.00
	Andhra Pradesh	9012	0	172.6	78.2	0.6	446	0.00
	Telangana	10096	0	191.3	76.7	0.0	855	0.00
	Karnataka	11373	0	203.2	53.1	0.1	881	0.00
	Kerala	3671	0	73.7	52.0	-0.2	273	0.00
	Tamil Nadu	14049	0	295.8	187.8	-1.1	690	0.00
	Puducherry	356	0	7.0	7.2	-0.2	49	0.00
ER	Bihar	4768	0	82.3	72.7	-1.3	293	0.00
	DVC	3209	130	67.0	-41.4	-0.9	325	2.37
	Jharkhand	1520	0	32.0	20.4	1.6	179	3.18
	Odisha	5501	0	110.1	51.8	-1.2	364	0.00
	West Bengal	6301	0	115.2	2.1	-0.4	347	0.00
NER	Sikkim	118	0	1.9	1.8	0.1	53	0.00
	Arunachal Pradesh	125	0	2.3	2.1	0.1	38	0.00
	Assam	1485	0	25.2	18.4	0.3	129	0.00
	Manipur	240	0	3.5	3.5	0.0	50	0.00
	Meghalaya	401	0	7.6	5.8	0.2	47	0.00
	Mizoram	135	0	1.8	1.6	-0.2	21	0.00
	Nagaland	145	0	2.5	2.4	0.1	10	0.00
	Tripura	221	0	3.5	3.3	-0.3	14	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-6.0	-12.8
Day Peak (MW)	282.0	-520.0	-757.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.1	-147.1	81.6	-152.1	-0.5	0.0
Actual(MU)	206.6	-136.8	77.5	-150.6	-0.3	-3.7
O/D/U/D(MU)	-11.5	10.3	-4.1	1.5	0.1	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8101	13213	5622	1710	499	29144	43
State Sector	8041	16961	10153	3718	112	38984	57
Total	16142	30173	15775	5428	611	68128	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	657	1309	520	553	14	3053	79
Lignite	24	12	44	0	0	80	2
Hvdro	106	38	87	28	11	269	7
Nuclear	33	33	70	0	0	136	3
Gas, Naptha & Diesel	15	13	8	0	26	62	2
RES (Wind, Solar, Biomass & Others)	78	51	150	5	0	284	7
Total	913	1485	879	586	51	3884	100
Share of RES in total generation (%)	8.58	3.48	17.10	0.86	0.51	7.32	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.77	8.35	34.92	5.59	21.66	17.74	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.071

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: 25-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	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	97	806	0.0	10.7	-10.7	
4	765 kV	SASARAM-FATEHPUR	1	0	602	0.0	9.6	-9.6	
5	765 kV	GAYA-BALIA	1	0	589	0.0	10.4	-10.4	
6	400 kV	PUSAULI-VARANASI	1	21	84	0.0	0.3	-0.3	
7	400 kV	PUSAULI-ALLAHABAD	1	36	119	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	765	0.0	8.5	-8.5	
9	400 kV	PATNA-BALIA	4	0	1273	0.0	23.9	-23.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	411	0.0	5.1	-5.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	429	0.0	7.0	-7.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	5	330	0.0	3.7	-3.7	
13	220 kV	PUSAULI-SAHUPURI	1	2	163	0.0	1.7	-1.7	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	81.8	-81.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	695	418	2.9	0.0	2.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	162	747	0.0	5.2	-5.2	
3	765 kV	JHARSUGUDA-DURG	2	125	177	0.0	0.2	-0.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	224	336	0.0	1.9	-1.9	
5	400 kV	RANCHI-SIPAT	2	100	220	0.0	1.3	-1.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	72	72	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	2	100	0	1.2	0.0	1.2	
						ER-WR	4.1	8.8	-4.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	40.1	-40.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2737	0.0	47.0	-47.0	
4	400 kV	TALCHER-I/C	2	910	982	2.2	0.0	2.2	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	97.1	-97.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	10	357	0.0	3.6	-3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	35	492	0.0	5.0	-5.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	88	0.0	1.0	-1.0	
						ER-NER	0.0	9.6	-9.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	10.3	-10.3	
						NER-NR	0.0	10.3	-10.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3026	0.0	53.4	-53.4	
2	HVDC	VINDHYACHAL B/B	-	248	488	3.1	2.3	0.9	
3	HVDC	MUNDRAMOHINDERGARH	2	0	253	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	20	1601	0.0	21.2	-21.2	
5	765 kV	GWALIOR-PHAGI	2	0	2320	0.0	35.5	-35.5	
6	765 kV	JABALPUR-ORAI	2	0	873	0.0	27.3	-27.3	
7	765 kV	GWALIOR-ORAI	1	898	0	17.6	0.0	17.6	
8	765 kV	SATNA-ORAI	1	0	1060	0.0	19.6	-19.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	1695	0	29.6	0.0	29.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2169	0.0	35.7	-35.7	
11	400 kV	ZERDA-KANKROLI	1	295	0	5.4	0.0	5.4	
12	400 kV	ZERDA -BHINMAL	1	371	30	4.5	0.0	4.5	
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHUALPUR	2	186	355	0.9	1.5	-0.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	153	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	100	0	2.4	0.0	2.4	
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	86.7	203.6	-116.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	496	1019	6.7	10.1	-3.4	
2	HVDC	RAIGARH-PUGALUR	2	1644	1500	0.0	2.9	-2.9	
3	765 kV	SOLAPUR-RAICHUR	2	659	1284	1.7	8.0	-6.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2641	0.0	37.1	-37.1	
5	400 kV	KOLHAPUR-KUDGI	2	1525	0	23.9	0.0	23.9	
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	0	59	1.1	0.0	1.1	
						WR-SR	33.4	58.1	-24.7

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	79	0	48	1.2	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	164	123	136	3.3	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	9	0	-21	-0.5	
	NER	132kV GELEPHU-SALAKATI	-10	6	-1	0.0	
	NER	132kV MOTANGA-RANGIA	20	-7	1	0.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-15	-0.4	
	ER	NEPAL IMPORT (FROM BIHAR)	-140	0	-60	-1.4	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-315	0	-176	-4.2	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-680	-354	-472	-11.3	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-77	0	-63	-1.5	