



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: 2nd 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 01.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 1-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 1st 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: 02-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)	46595	50503	37973	17623	2551	155245
Peak Shortage (MW)	1151	0	0	489	0	1640
Energy Met (MU)	971	1182	789	367	44	3354
Hydro Gen (MU)	113	32	102	47	12	306
Wind Gen (MU)	12	80	58	-	-	151
Solar Gen (MU)*	32.38	15.94	73.84	4.89	0.02	127
Energy Shortage (MU)	8.94	2.32	0.00	4.30	0.00	15.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49456	57079	38607	18470	2649	158785
Time Of Maximum Demand Met (From NLDC SCADA)	10:44	10:56	18:31	17:49	17:31	10:47

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	0.051	0.00	0.94	10.80	11.73	74.90	13.37

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	6214	0	126.1	62.4	-0.3	200	0.98	
	Haryana	6713	0	125.5	84.0	1.7	303	2.28	
	Rajasthan	13707	0	247.1	73.4	2.6	623	1.03	
	Delhi	3676	0	63.1	51.8	-1.6	146	0.00	
	UP	15469	0	280.4	119.6	-0.7	872	0.00	
	Uttarakhand	1946	0	36.4	26.0	0.8	139	0.00	
	HP	1753	0	32.9	21.8	2.3	385	0.00	
	J&K(UT) & Ladakh(UT)	2798	250	56.2	51.4	-0.2	337	4.65	
	Chandigarh	197	0	3.3	3.7	-0.4	28	0.00	
	WR	Chhattisgarh	3431	0	72.1	38.0	-0.8	199	0.00
Gujarat		15571	336	323.7	191.0	4.0	1043	2.32	
MP		14160	0	273.4	181.1	-0.9	614	0.00	
Maharashtra		22276	0	459.2	132.4	-6.9	603	0.00	
Goa		595	0	11.9	11.7	-0.3	77	0.00	
DD		328	0	7.2	7.3	0.0	17	0.00	
DNH		799	0	18.7	18.9	-0.2	40	0.00	
AMNSIL		827	0	16.2	7.5	0.0	303	0.00	
SR		Andhra Pradesh	7285	0	145.0	44.4	-0.6	463	0.00
		Telangana	7805	0	153.0	55.7	-0.5	441	0.00
	Karnataka	8131	0	153.5	26.9	-2.1	563	0.00	
	Kerala	3691	0	72.8	34.8	-0.9	178	0.00	
	Tamil Nadu	12887	0	258.1	140.8	0.5	591	0.00	
	Puducherry	332	0	6.5	7.1	-0.6	15	0.00	
ER	Bihar	4281	0	73.4	61.5	0.3	198	0.00	
	DVC	3242	0	61.0	-38.1	-2.2	201	1.48	
	Jharkhand	1484	0	26.2	21.1	-0.9	181	2.82	
	Odisha	4503	0	88.2	30.3	-1.6	322	0.00	
	West Bengal	6488	0	116.8	-7.3	0.6	315	0.00	
	Sikkim	114	0	1.8	1.3	0.5	72	0.00	
NER	Arunachal Pradesh	137	0	2.3	2.1	0.1	28	0.00	
	Assam	1470	0	24.4	17.9	0.0	85	0.00	
	Manipur	220	0	3.1	3.0	0.1	30	0.00	
	Meghalaya	367	0	6.8	5.5	0.2	51	0.00	
	Mizoram	123	0	1.8	1.5	-0.1	7	0.00	
	Nagaland	155	0	2.2	2.2	-0.1	52	0.00	
Tripura	225	0	3.5	1.7	-0.4	30	0.00		

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.8	1.1	-17.0
Day Peak (MW)	558.0	89.0	-827.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	227.8	-124.6	71.5	-170.6	-4.2	0.0
Actual(MU)	244.1	-130.4	54.6	-168.0	-4.6	-4.3
O/D/U/D(MU)	16.3	-5.8	-16.9	2.6	-0.5	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8186	14580	12292	4440	384	39881	45
State Sector	13910	20596	11621	2448	11	48585	55
Total	22096	35175	23913	6888	395	88466	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	512	1146	374	509	13	2554	74
Lignite	25	13	31	0	0	68	2
Hydro	113	32	102	47	12	306	9
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	16	10	10	0	29	65	2
RES (Wind, Solar, Biomass & Others)	65	97	158	5	0	325	9
Total	754	1330	745	561	53	3443	100

Share of RES in total generation (%)	8.61	7.27	21.24	0.86	0.04	9.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.61	12.15	44.29	9.31	21.78	21.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.092

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: 02-Dec-2021			
						Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	502	0.0	12.1	-12.1	
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.8	-5.8	
3	765 kV	GAYA-VARANASI	2	0	971	0.0	12.6	-12.6	
4	765 kV	SASARAML-FATEHPUR	1	0	647	0.0	10.0	-10.0	
5	765 kV	GAYA-BALIA	1	0	627	0.0	8.6	-8.6	
6	400 kV	PUSAULLY-VARANASI	1	0	180	0.0	3.3	-3.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	151	0.0	2.5	-2.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	758	0.0	11.0	-11.0	
9	400 kV	PATNA-BALIA	4	0	1297	0.0	16.3	-16.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	571	0.0	5.8	-5.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	445	0.0	6.9	-6.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	388	0.0	4.9	-4.9	
13	220 kV	PUSAULLI-SAHUPURI	1	2	94	0.0	1.1	-1.1	
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-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	100.9	-100.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	943	571	5.2	0.0	5.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	118	857	0.0	8.3	-8.3	
3	765 kV	JHARSUGUDA-DURG	2	114	273	0.0	2.7	-2.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	46	288	0.0	2.8	-2.8	
5	400 kV	RANCHI-SIPAT	2	76	323	0.0	1.9	-1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	19	101	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	94	74	0.2	0.0	0.2	
						ER-WR	5.4	16.7	-11.3
Import/Export of ER (With SR)									
1	HVDC	JEVPORE-GAZIYAKA B/B	2	0	385	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1970	0.0	36.8	-36.8	
3	765 kV	ANGUL-SIRSAKULAM	2	0	2861	0.0	41.6	-41.6	
4	400 kV	TALCHER-IC	2	368	776	0.0	4.5	-4.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	86.9	-86.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	4.7	-4.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	248	0.0	1.9	-1.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	9	64	0.0	0.7	-0.7	
						ER-NER	0.0	7.3	-7.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-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	3024	0.0	48.9	-48.9	
2	HVDC	VINDHYACHAL B/B	-	451	0	7.3	0.0	7.3	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2266	0.0	31.8	-31.8	
5	765 kV	GWALIOR-PHAGI	2	0	2413	0.0	33.8	-33.8	
6	765 kV	JABALPUR-ORAI	2	0	1953	0.0	30.1	-30.1	
7	765 kV	GWALIOR-ORAI	1	858	0	14.8	0.0	14.8	
8	765 kV	SATNA-ORAI	1	0	1142	0.0	21.5	-21.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	912	0	22.0	0.0	22.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1823	0.0	32.1	-32.1	
11	400 kV	ZERDA-KANKROLI	1	225	0	3.5	0.0	3.5	
12	400 kV	ZERDA-BHINMAL	1	252	131	2.5	0.0	2.5	
13	400 kV	VINDHYACHAL-RIHAND	1	976	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHUALPUR	2	87	581	0.0	4.8	-4.8	
15	220 kV	BHANPURA-RANPUR	1	112	66	0.8	0.1	0.7	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	153	0	1.7	0.0	1.7	
18	220 kV	MALANPUR-AURAIYA	1	109	0	2.5	0.0	2.5	
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	77.4	210.2	-132.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	496	0	12.1	0.0	12.1	
2	HVDC	RAIGARH-PUGALUR	2	952	747	10.2	0.0	10.2	
3	765 kV	SOLAPUR-RAICHUR	2	1613	2680	5.0	16.8	-11.7	
4	765 kV	WARDHA-NIZAMABAD	2	427	2591	0.6	29.6	-29.0	
5	400 kV	KOLHAPUR-KUDGI	2	1310	0	15.7	0.0	15.7	
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	86	1.8	0.0	1.8	
						WR-SR	45.3	46.4	-1.1

INTERNATIONAL EXCHANGES

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)	176	0	121	2.9
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	337	332	337	8.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	27	12	27	-0.8
	NER	132kV GELEPHU-SALAKATI	9	1	3	0.1
	NER	132kV MOTANGA-RANGIA	9	1	4	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	89	-13	45	1.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-720	-440	-619	-14.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-107	0	-88	-2.1