



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: 10th 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 09.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 9-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 9th 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: 10-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)	50176	55142	38849	17809	2563	164539
Peak Shortage (MW)	1017	0	0	362	0	1379
Energy Met (MU)	1032	1246	866	381	45	3570
Hydro Gen (MU)	113	34	104	40	12	303
Wind Gen (MU)	12	82	40	-	-	133
Solar Gen (MU)*	62.64	31.60	64.51	4.45	0.26	163
Energy Shortage (MU)	6.92	0.00	0.00	4.80	0.00	11.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51758	59093	41265	18370	2612	168030
Time Of Maximum Demand Met (From NLDC SCADA)	10:31	10:33	07:43	17:56	17:11	09:57

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	0.038	0.00	0.17	6.13	6.31	75.44	18.25

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	7101	0	145.1	98.0	-3.0	117	0.00
	Haryana	7004	0	129.2	101.5	0.9	169	0.73
	Rajasthan	14824	0	265.6	86.3	0.9	295	1.54
	Delhi	3648	0	64.4	52.4	-0.4	225	0.00
	UP	16606	0	294.9	120.4	-0.1	517	0.00
	Uttarakhand	1999	0	37.9	26.7	0.8	158	0.00
	HP	1857	0	33.8	24.4	0.8	188	0.00
	J&K(UT) & Ladakh(UT)	2704	300	57.7	51.4	1.1	489	4.65
	Chandigarh	198	0	3.2	3.7	-0.4	30	0.00
	WR	Chhattisgarh	3604	0	79.8	26.8	-0.1	286
Gujarat		17174	0	353.4	182.4	1.4	590	0.00
MP		14506	0	287.2	169.1	-0.3	514	0.00
Maharashtra		22598	0	470.3	137.1	-2.6	1057	0.00
Goa		603	0	12.3	11.4	0.2	48	0.00
DD		327	0	7.3	7.1	0.2	36	0.00
DNH		839	0	19.1	18.9	0.2	64	0.00
AMNSIL		791	0	17.0	7.3	0.0	321	0.00
SR	Andhra Pradesh	7813	0	160.5	72.7	0.4	558	0.00
	Telangana	8992	0	174.2	63.3	0.2	567	0.00
	Karnataka	8832	0	165.5	29.4	-0.5	545	0.00
	Kerala	3738	0	76.4	43.2	-0.8	166	0.00
	Tamil Nadu	13588	0	281.8	167.4	0.0	960	0.00
	Puducherry	367	0	7.4	7.7	-0.3	35	0.00
	Bihar	4306	0	74.2	63.1	-0.4	333	0.03
ER	DVC	3100	0	64.5	-39.1	-2.4	289	1.78
	Jharkhand	1315	0	27.4	20.0	0.6	170	2.99
	Odisha	4963	0	100.9	29.6	0.8	401	0.00
	West Bengal	6153	0	112.6	-12.2	0.0	324	0.00
	Sikkim	101	0	1.6	1.1	0.6	52	0.00
NER	Arunachal Pradesh	133	0	2.3	2.1	0.0	34	0.00
	Assam	1455	0	25.1	21.1	-0.3	72	0.00
	Manipur	214	0	2.9	3.1	-0.2	25	0.00
	Meghalaya	377	0	7.0	5.9	0.0	34	0.00
	Mizoram	117	0	1.7	1.4	-0.1	6	0.00
	Nagaland	150	0	2.3	2.2	0.0	17	0.00
	Tripura	221	0	3.6	2.3	-0.4	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.2	-1.8	-16.5
Day Peak (MW)	442.0	-336.0	-812.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.4	-172.2	52.8	-167.6	-1.3	0.0
Actual(MU)	287.9	-180.3	51.7	-161.8	-1.8	-4.2
O/D/U/D(MU)	-0.5	-8.1	-1.0	5.9	-0.5	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7687	14135	8382	3515	510	34229	43
State Sector	13361	18371	11031	3258	11	46031	57
Total	21048	32505	19413	6773	521	80259	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	493	1230	480	529	12	2744	75
Lignite	22	15	35	0	0	72	2
Hvdro	113	34	104	40	12	303	8
Nuclear	23	33	69	0	0	125	3
Gas, Naptha & Diesel	16	8	9	0	28	61	2
RES (Wind, Solar, Biomass & Others)	100	114	131	4	0	350	10
Total	767	1434	827	573	52	3654	100
Share of RES in total generation (%)	13.08	7.97	15.79	0.77	0.50	9.58	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.87	12.65	36.67	7.69	23.32	21.29	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.085

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: 10-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	502	0.0	12.4	-12.4	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	944	0.0	12.3	-12.3	
4	765 kV	SASARAM-FATEHPUR	1	0	624	0.0	9.4	-9.4	
5	765 kV	GAYA-BALIA	1	0	607	0.0	11.0	-11.0	
6	400 kV	PUSAULI-VARANASI	1	0	157	0.0	2.9	-2.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	168	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	9.2	-9.2	
9	400 kV	PATNA-BALIA	4	0	1372	0.0	24.9	-24.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	523	0.0	5.9	-5.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	418	0.0	7.0	-7.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	392	0.0	5.2	-5.2	
13	220 kV	PUSAULI-SAHUPURI	1	15	104	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	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	110.5	-110.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1064	433	7.7	0.0	7.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	9	847	0.0	9.1	-9.1	
3	765 kV	JHARSUGUDA-DURG	2	51	196	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	191	301	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	2	56	310	0.0	2.5	-2.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	47	98	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	159	11	1.9	0.0	1.9	
						ER-WR	11.3	14.1	-2.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	440	0.0	9.2	-9.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	35.9	-35.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2706	0.0	43.8	-43.8	
4	400 kV	TALCHER-I/C	2	921	647	6.6	0.0	6.6	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	88.9	-88.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	328	0.0	3.4	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	75	272	0.0	3.9	-3.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	70	0.0	1.1	-1.1	
						ER-NER	0.0	8.3	-8.3
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	3526	0.0	53.9	-53.9	
2	HVDC	VINDHYACHAL B/B	-	93	247	1.4	2.5	-1.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.0	-6.0	
4	765 kV	GWALIOR-AGRA	2	0	1957	0.0	32.0	-32.0	
5	765 kV	GWALIOR-PHAGI	2	0	2438	0.0	39.1	-39.1	
6	765 kV	JABALPUR-ORAI	2	0	1013	0.0	34.1	-34.1	
7	765 kV	GWALIOR-ORAI	1	888	0	15.2	0.0	15.2	
8	765 kV	SAINA-ORAI	1	0	1163	0.0	22.9	-22.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	897	0	11.9	0.0	11.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2103	0.0	38.4	-38.4	
11	400 kV	ZERDA-KANKROLI	1	224	0	3.4	0.0	3.4	
12	400 kV	ZERDA-BHINMAL	1	306	145	2.6	0.0	2.6	
13	400 kV	VINDHYACHAL-RIHAND	1	976	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHILJALPUR	2	42	556	0.0	5.1	-5.1	
15	220 kV	BHANPURA-RANPUR	1	81	110	0.3	0.5	-0.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	95	0	2.3	0.0	2.3	
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	60.5	235.8	-175.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	973	0	14.9	0.0	14.9	
2	HVDC	RAIGARH-PUGALUR	2	965	999	2.0	0.0	2.0	
3	765 kV	SOLAPUR-RAICHUR	2	858	1605	1.9	19.7	-8.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2478	0.0	35.6	-35.6	
5	400 kV	KOLHAPUR-KUDGI	2	1241	0	18.5	0.0	18.5	
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	93	1.2	0.0	1.2	
						WR-SR	38.5	46.4	-7.8

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)	137	0	110	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	231	0	120	2.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	51	0	19	0.5
	NER	132kV GELEPHU-SALAKATI	8	0	4	0.1
	NER	132kV MOTANGA-RANGIA	14	1	5	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-14	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-180	0	-41	-1.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-142	17	-34	-0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-710	-428	-596	-14.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-90	-2.2