



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: 9th 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 08.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 8-दिसंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 8th 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: 09-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)	49269	54782	39893	18175	2557	164676
Peak Shortage (MW)	1429	0	0	532	0	1961
Energy Met (MU)	1027	1235	866	375	44	3547
Hydro Gen (MU)	113	34	95	42	12	296
Wind Gen (MU)	10	73	38	-	-	121
Solar Gen (MU)*	58.63	33.16	90.11	4.37	0.24	187
Energy Shortage (MU)	7.60	0.00	0.00	6.37	0.01	13.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51812	57502	40596	18911	2676	166689
Time Of Maximum Demand Met (From NLDC SCADA)	10:42	11:00	07:45	18:39	17:21	10:43

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	0.040	0.00	1.63	5.36	6.99	75.37	17.64

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	7383	0	147.5	102.1	-2.3	199	0.00
	Haryana	7063	0	130.0	103.3	0.8	180	0.96
	Rajasthan	14536	0	262.4	88.6	3.7	447	1.81
	Delhi	3714	0	64.3	52.8	-0.7	155	0.00
	UP	16494	0	292.7	114.4	0.0	641	0.00
	Uttarakhand	1994	0	37.9	26.6	0.6	86	0.00
	HP	1822	0	33.1	24.7	0.1	284	0.18
	J&K(UT) & Ladakh(UT)	2812	250	55.8	50.5	0.1	441	4.65
WR	Chhattisgarh	198	0	3.2	3.7	-0.5	29	0.00
	Chhattisgarh	3562	0	78.5	26.0	0.1	226	0.00
	Gujarat	16588	0	349.2	184.1	2.9	524	0.00
	MP	14191	0	281.3	168.8	-1.3	632	0.00
	Maharashtra	21992	0	468.9	133.5	-2.4	480	0.00
	Goa	578	0	11.7	11.0	0.0	79	0.00
	DD	334	0	7.5	7.2	0.3	45	0.00
	DNH	823	0	19.0	19.0	0.0	48	0.00
SR	AMNSIL	871	0	18.7	8.1	0.5	309	0.00
	Andhra Pradesh	7852	0	165.6	76.0	-0.6	351	0.00
	Telangana	8937	0	172.4	57.4	0.2	435	0.00
	Karnataka	8275	0	160.7	29.1	-1.5	813	0.00
	Kerala	3735	0	76.0	42.7	-1.0	188	0.00
	Tamil Nadu	13821	0	283.3	160.5	0.6	759	0.00
	Puducherry	376	0	7.5	7.6	-0.1	36	0.00
ER	Bihar	4145	256	75.2	63.3	2.0	677	1.41
	DVC	3192	0	63.7	-37.1	-2.8	267	1.82
	Jharkhand	1395	0	26.0	20.4	-0.8	232	3.14
	Odisha	4976	0	99.0	28.1	1.6	545	0.00
	West Bengal	6195	0	109.4	-15.3	-0.2	241	0.00
NER	Sikkim	138	0	1.8	1.1	0.6	107	0.00
	Arunachal Pradesh	130	0	2.3	2.2	-0.1	37	0.00
	Assam	1507	0	24.8	21.1	-0.1	132	0.01
	Manipur	213	0	3.0	3.0	0.0	30	0.00
	Meghalaya	377	0	6.9	5.9	0.0	29	0.00
	Mizoram	108	0	1.8	1.5	-0.2	9	0.00
	Nagaland	143	0	2.3	2.1	0.1	30	0.00
	Tripura	229	0	3.4	2.3	-0.5	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.6	-2.9	-16.4
Day Peak (MW)	450.0	-74.5	-820.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	285.5	-175.1	62.4	-174.1	1.3	0.0
Actual(MU)	293.4	-178.0	47.4	-166.6	1.2	-2.6
O/D/U/D(MU)	7.9	-2.9	-15.0	7.5	-0.1	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7897	13635	7882	3570	735	33719	42
State Sector	14891	17849	9931	3258	11	45939	58
Total	22788	31483	17813	6828	746	79657	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	492	1226	471	522	8	2719	75
Lignite	22	15	33	0	0	70	2
Hydro	113	34	95	42	12	296	8
Nuclear	23	33	68	0	0	124	3
Gas, Naptha & Diesel	16	8	9	0	27	60	2
RES (Wind, Solar, Biomass & Others)	94	107	156	4	0	362	10
Total	760	1423	832	569	48	3631	100
Share of RES in total generation (%)	12.39	7.54	18.76	0.76	0.50	9.97	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.34	12.22	38.34	8.18	25.86	21.54	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
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: 09-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	501	0.0	12.2	-12.2	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	1020	0.0	13.2	-13.2	
4	765 kV	SASARAM-FATEHPUR	1	0	608	0.0	8.6	-8.6	
5	765 kV	GAYA-BALIA	1	0	597	0.0	10.4	-10.4	
6	400 kV	PUSAULI-VARANASI	1	0	162	0.0	3.0	-3.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	171	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	677	0.0	9.2	-9.2	
9	400 kV	PATNA-BALIA	4	0	1315	0.0	21.6	-21.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	381	0.0	4.3	-4.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	422	0.0	6.7	-6.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	24	402	0.0	5.8	-5.8	
13	220 kV	PUSAULI-SAHUPURI	1	24	82	0.0	0.4	-0.4	
14	132 kV	SONENAGAR-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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	104.4	-103.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1160	557	2.8	0.0	2.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	87	809	0.0	8.3	-8.3	
3	765 kV	JHARSUGUDA-DURG	2	27	203	0.0	2.6	-2.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	85	461	0.0	5.2	-5.2	
5	400 kV	RANCHI-SIPAT	2	60	326	0.0	3.2	-3.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	21	100	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	134	7	1.4	0.0	1.4	
						ER-WR	4.2	20.3	-16.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	387	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1931	0.0	31.4	-31.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2481	0.0	42.6	-42.6	
4	400 kV	TALCHER-I/C	2	1359	296	11.8	0.0	11.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	82.6	-82.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	391	0.0	6.2	-6.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	397	0.0	5.4	-5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	85	0.0	1.3	-1.3	
						ER-NER	0.0	12.8	-12.8
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	3019	0.0	54.3	-54.3	
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	3.8	-3.8	
3	HVDC	MUNDRAMOHINDERGARH	2	0	254	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2214	0.0	34.4	-34.4	
5	765 kV	GWALIOR-PHAGI	2	0	2515	0.0	39.9	-39.9	
6	765 kV	JABALPUR-ORAI	2	0	1201	0.0	35.2	-35.2	
7	765 kV	GWALIOR-ORAI	1	895	0	15.9	0.0	15.9	
8	765 kV	SATNA-ORAI	1	0	1242	0.0	22.6	-22.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	776	0	10.2	0.0	10.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1984	0.0	37.9	-37.9	
11	400 kV	ZERDA-KANKROLI	1	230	0	3.3	0.0	3.3	
12	400 kV	ZERDA -BHINMAL	1	224	104	2.2	0.0	2.2	
13	400 kV	VINDHYACHAL -RIHAND	1	983	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHUALPUR	2	11	606	0.0	5.7	-5.7	
15	220 kV	BHANPURA-RANPUR	1	66	117	0.4	0.5	-0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
17	220 kV	MEHGAON-AURAIYA	1	132	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	85	0	2.3	0.0	2.3	
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	57.3	241.9	-184.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	15.1	0.0	15.1	
2	HVDC	RAIGARH-PUGALUR	2	951	1001	0.0	7.8	-7.8	
3	765 kV	SOLAPUR-RAICHUR	2	1534	1396	5.0	10.1	-5.1	
4	765 kV	WARDHA-NIZAMABAD	2	231	2386	0.1	34.0	-33.9	
5	400 kV	KOLHAPUR-KUDGI	2	1596	0	21.2	0.0	21.2	
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	90	1.2	0.0	1.2	
						WR-SR	42.5	51.8	-9.4

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)	132	0	105	2.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	253	0	159	3.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	38	0	-4	-0.1
	NER	132kV GELEPHU-SALAKATI	8	-1	5	0.1
	NER	132kV MOTANGA-RANGIA	20	0	10	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-157	0	-123	-2.9
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	83	-41	3	0.1
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-722	-434	-599	-14.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-98	0	-85	-2.0