



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: 11th 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 10.12.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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: 11-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)	49714	54985	39377	18231	2494	164801
Peak Shortage (MW)	615	0	0	307	0	922
Energy Met (MU)	1032	1252	859	385	45	3574
Hydro Gen (MU)	114	32	99	41	12	298
Wind Gen (MU)	14	105	50	-	-	169
Solar Gen (MU)*	62.54	35.18	75.10	4.41	0.24	177
Energy Shortage (MU)	6.19	0.00	0.00	4.55	0.00	10.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52160	59786	41042	18677	2675	169123
Time Of Maximum Demand Met (From NLDC SCADA)	10:47	10:33	07:43	17:41	17:16	10:48

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	0.43	6.24	6.67	68.94	24.40

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	6934	0	141.8	86.6	-0.8	149	0.00	
	Haryana	7122	0	129.6	89.1	0.5	148	0.37	
	Rajasthan	14866	0	267.9	74.4	1.1	468	1.17	
	Delhi	3899	0	66.0	54.2	-0.7	244	0.00	
	UP	16511	0	293.6	121.8	0.1	597	0.00	
	Uttarakhand	2062	0	38.4	27.0	0.5	166	0.00	
	HP	1874	0	34.0	25.7	0.1	170	0.00	
	J&K(UT) & Ladakh(UT)	2750	250	57.0	52.4	-0.7	196	4.65	
	Chandigarh	205	0	3.3	3.8	-0.5	29	0.00	
	WR	Chhattisgarh	3647	0	80.5	27.9	-0.5	165	0.00
Gujarat		17194	0	355.9	179.3	0.8	597	0.00	
MP		14923	0	290.6	171.7	-0.5	474	0.00	
Maharashtra		22103	0	469.0	137.0	-4.3	570	0.00	
Goa		604	0	12.4	11.6	0.2	44	0.00	
DD		339	0	7.5	7.1	0.4	98	0.00	
DNH		832	0	19.2	18.8	0.4	60	0.00	
AMNSIL		836	0	17.2	7.8	0.3	280	0.00	
SR		Andhra Pradesh	7444	0	159.0	78.8	-1.1	308	0.00
		Telangana	8936	0	171.3	63.4	0.6	590	0.00
	Karnataka	8662	0	163.7	29.7	0.2	527	0.00	
	Kerala	3747	0	76.0	42.4	-0.7	179	0.00	
	Tamil Nadu	13445	0	282.2	164.0	0.4	719	0.00	
ER	Puducherry	364	0	7.3	7.6	-0.3	24	0.00	
	Bihar	4235	0	75.3	63.1	0.9	323	0.00	
	DVC	3122	0	64.7	-38.3	-2.3	194	1.00	
	Jharkhand	1474	0	27.0	20.9	-0.2	293	3.43	
	Odisha	5209	0	103.4	36.8	1.1	613	0.13	
	West Bengal	6217	0	113.1	-11.9	0.8	397	0.00	
	Sikkim	105	0	1.6	1.1	0.5	57	0.00	
	NER	Arunachal Pradesh	128	0	2.2	2.2	-0.2	27	0.00
		Assam	1521	0	25.1	20.0	0.1	80	0.00
		Manipur	219	0	2.9	3.1	-0.2	25	0.00
Meghalaya		370	0	7.1	6.0	0.0	38	0.00	
Mizoram		121	0	1.7	1.5	-0.2	16	0.00	
Nagaland		147	0	2.3	2.3	-0.1	15	0.00	
Tripura	214	0	3.7	2.4	-0.2	44	0.00		

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.3	-3.0	-13.0
Day Peak (MW)	431.0	46.1	-759.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	260.7	-169.2	71.6	-159.2	-4.0	0.0
Actual(MU)	265.9	-173.5	63.8	-154.5	-4.3	-2.6
O/D/U/D(MU)	5.2	-4.3	-7.8	4.7	-0.3	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8347	14303	8682	3515	485	35332	43
State Sector	13226	18541	12331	3608	11	47716	57
Total	21573	32843	21013	7123	496	83047	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	517	1211	442	508	13	2691	74
Lignite	23	14	36	0	0	73	2
Hydro	114	32	99	41	12	298	8
Nuclear	23	33	69	0	0	125	3
Gas, Naptha & Diesel	15	10	9	0	29	63	2
RES (Wind, Solar, Biomass & Others)	102	141	153	4	0	401	11
Total	794	1441	809	553	54	3651	100

Share of RES in total generation (%)	12.83	9.79	18.91	0.80	0.45	10.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.14	14.30	39.77	8.13	22.28	22.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.078

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: 11-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	12.2	-12.2	
2	HVDC	PUSAULI B/B	-	2	251	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	76	736	0.0	7.9	-7.9	
4	765 kV	SASARAM-FATEHPUR	1	0	635	0.0	9.0	-9.0	
5	765 kV	GAYA-BALIA	1	0	724	0.0	12.9	-12.9	
6	400 kV	PUSAULI-VARANASI	1	30	162	0.0	2.8	-2.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	170	0.0	3.1	-3.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	8.7	-8.7	
9	400 kV	PATNA-BALIA	4	0	1395	0.0	24.3	-24.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	476	0.0	5.9	-5.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	435	0.0	7.2	-7.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	11	400	0.0	5.2	-5.2	
13	220 kV	PUSAULI-SAHUPURI	1	5	112	0.0	1.3	-1.3	
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	106.3	-105.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1182	162	12.4	0.0	12.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	178	788	0.0	6.5	-6.5	
3	765 kV	JHARSUGUDA-DURG	2	254	146	0.1	0.0	0.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	253	214	1.9	0.0	1.9	
5	400 kV	RANCHI-SIPAT	2	121	246	0.0	2.0	-2.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	53	76	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	2	162	0	2.3	0.0	2.3	
						ER-WR	16.8	8.6	8.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	440	0.0	9.8	-9.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	35.2	-35.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2380	0.0	41.5	-41.5	
4	400 kV	TALCHER-I/C	2	413	897	0.0	3.3	-3.3	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	86.4	-86.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	301	0.0	5.1	-5.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	144	259	0.0	2.4	-2.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	8	71	0.0	0.8	-0.8	
						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	3013	0.0	44.0	-44.0	
2	HVDC	VINDHYACHAL B/B	-	93	0	2.4	0.0	2.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1975	0.0	31.2	-31.2	
5	765 kV	GWALIOR-PHAGI	2	0	2146	0.0	32.9	-32.9	
6	765 kV	JABALPUR-ORAI	2	0	973	0.0	31.8	-31.8	
7	765 kV	GWALIOR-ORAI	1	744	0	14.3	0.0	14.3	
8	765 kV	SAINA-ORAI	1	0	1134	0.0	21.7	-21.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	710	139	7.7	0.0	7.7	
10	765 kV	VINDHYACHAL-VARANASI	0	0	2299	0.0	41.4	-41.4	
11	400 kV	ZERDA-KANKROLI	1	244	0	3.2	0.0	3.2	
12	400 kV	ZERDA-BHINMAL	1	293	124	2.3	0.0	2.3	
13	400 kV	VINDHYACHAL-RIHAND	1	980	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHILJALPUR	2	136	404	0.4	2.6	-2.2	
15	220 kV	BHANPURA-RANPUR	1	94	63	0.9	0.1	0.8	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3	
17	220 kV	MEHGAON-AURAIYA	1	136	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	87	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	56.6	213.3	-156.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	515	12.4	2.8	9.7	
2	HVDC	RAIGARH-PUGALUR	2	1451	747	5.6	0.0	5.6	
3	765 kV	SOLAPUR-RAICHUR	2	772	1483	2.3	19.9	-8.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2449	0.0	35.0	-35.0	
5	400 kV	KOLHAPUR-KUDGI	2	1330	0	19.2	0.0	19.2	
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	97	1.3	0.0	1.3	
						WR-SR	40.8	48.6	-7.8

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)	123	0	100	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	240	0	217	5.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	56	0	24	0.6
	NER	132kV GELEPHU-SALAKATI	3	0	0	0.0
	NER	132kV MOTANGA-RANGIA	8	0	3	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-39	0	-5	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	-138	0	-37	-0.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	223	0	-84	-2.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-667	-379	-464	-11.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-80	-1.9