



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: 12th 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 11.12.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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: 12-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)	49966	55110	38844	18138	2532	164590
Peak Shortage (MW)	250	0	0	434	0	684
Energy Met (MU)	1017	1251	857	385	44	3555
Hydro Gen (MU)	114	33	98	39	12	296
Wind Gen (MU)	6	68	57	-	-	132
Solar Gen (MU)*	63.17	37.67	83.49	4.64	0.20	189
Energy Shortage (MU)	5.82	0.00	0.00	5.00	0.00	10.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51710	59167	40263	18751	2584	168304
Time Of Maximum Demand Met (From NLDC SCADA)	10:36	11:01	09:32	17:32	17:15	09:39

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	0.042	0.00	0.43	9.27	9.70	75.78	14.52

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	6952	0	138.0	81.9	-0.9	94	0.10
	Haryana	6942	0	126.2	89.1	0.1	167	1.07
	Rajasthan	14884	0	267.6	77.8	1.0	246	0.00
	Delhi	3625	0	63.3	50.2	0.7	274	0.00
	UP	16386	0	288.6	115.3	-1.5	370	0.00
	Uttarakhand	2045	0	38.1	26.8	0.1	133	0.00
	HP	1835	0	33.7	25.4	0.8	363	0.00
	J&K(UT) & Ladakh(UT)	2854	250	58.2	52.1	0.7	270	4.65
	Chandigarh	192	0	3.2	3.5	-0.3	33	0.00
	WR	Chhattisgarh	3565	0	79.1	29.3	-0.1	235
Gujarat		17112	0	356.0	188.3	2.5	530	0.00
MP		14597	0	287.7	171.1	-0.9	963	0.00
Maharashtra		22446	0	472.4	136.6	-3.3	537	0.00
Goa		595	0	12.4	11.8	0.0	64	0.00
DD		330	0	7.4	7.1	0.3	84	0.00
DNH		831	0	19.2	19.1	0.1	44	0.00
AMNSIL		787	0	17.1	7.7	0.0	230	0.00
SR	Andhra Pradesh	7358	0	158.3	73.9	0.2	441	0.00
	Telangana	8615	0	171.9	62.0	0.2	584	0.00
	Karnataka	8554	0	164.5	29.5	-0.6	630	0.00
	Kerala	3707	0	74.9	42.1	-0.9	172	0.00
	Tamil Nadu	13540	0	280.3	153.3	-1.2	658	0.00
	Puducherry	351	0	7.5	7.6	-0.2	28	0.00
	DVC	4172	0	73.8	62.5	-1.0	365	0.00
ER	Bihar	3094	0	65.1	-39.3	-2.1	364	1.98
	Jharkhand	1356	0	26.3	20.7	-0.4	231	3.02
	Odisha	5486	0	105.9	50.2	2.2	827	0.00
	West Bengal	6214	0	112.9	-12.6	-0.2	378	0.00
	Sikkim	107	0	1.4	0.9	0.4	50	0.00
NER	Arunachal Pradesh	135	0	2.2	2.0	0.0	26	0.00
	Assam	1455	0	23.7	18.2	-0.1	99	0.00
	Manipur	219	0	3.2	3.1	0.0	21	0.00
	Meghalaya	385	0	6.9	5.9	0.0	35	0.00
	Mizoram	127	0	1.7	1.6	-0.1	15	0.00
	Nagaland	139	0	2.5	2.2	0.2	25	0.00
	Tripura	221	0	3.6	2.3	-0.3	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.0	-0.6	-15.1
Day Peak (MW)	358.0	-105.7	-823.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.1	-153.0	56.0	-149.5	-5.7	0.0
Actual(MU)	251.7	-152.2	46.3	-146.0	-4.5	-4.6
O/D/U/D(MU)	-0.4	0.8	-9.7	3.5	1.2	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7647	13778	8942	3320	485	34172	42
State Sector	12816	19861	11031	4268	11	47986	58
Total	20463	33638	19973	7588	496	82157	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	516	1215	443	507	12	2693	74
Lignite	25	14	36	0	0	76	2
Hydro	114	33	98	39	12	296	8
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	15	10	9	0	29	63	2
RES (Wind, Solar, Biomass & Others)	93	107	169	5	0	374	10
Total	790	1413	823	551	53	3630	100
Share of RES in total generation (%)	11.83	7.60	20.48	0.84	0.38	10.31	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.68	12.27	40.76	7.93	22.16	22.00	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.077

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: 12-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	12.4	-12.4
2	HVDC	PUSAULI B/B	2	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	12	848	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	0	702	0.0	10.3	-10.3
5	765 kV	GAYA-BALIA	1	0	735	0.0	12.0	-12.0
6	400 kV	PUSAULI-VARANASI	1	40	127	0.0	1.9	-1.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	190	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	770	0.0	10.8	-10.8
9	400 kV	PATNA-BALIA	4	0	1376	0.0	25.2	-25.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	523	0.0	7.2	-7.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	495	0.0	8.2	-8.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	428	0.0	5.4	-5.4
13	220 kV	PUSAULI-SAHUPURI	1	0	131	0.0	1.6	-1.6
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	105.2	-104.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1351	68	17.2	0.0	17.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	75	798	0.0	6.6	-6.6
3	765 kV	JHARSUGUDA-DURG	2	228	73	1.9	0.0	1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	268	172	1.7	0.0	1.7
5	400 kV	RANCHI-SIPAT	2	98	256	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	58	85	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	170	0	2.2	0.0	2.2
						ER-WR	23.0	14.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	441	0.0	9.8	-9.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	36.7	-36.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2155	0.0	35.9	-35.9
4	400 kV	TALCHER-I/C	2	402	664	0.0	2.7	-2.7
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	82.3	-82.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	327	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	80	266	0.0	2.0	-2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	63	0.0	0.7	-0.7
						ER-NER	7.6	-7.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
						NER-NR	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2508	0.0	48.5	-48.5
2	HVDC	VINDHYACHAL B/B	-	226	0	2.6	0.0	2.6
3	HVDC	MUNDRAMOHINDERGARH	2	0	755	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1861	0.0	26.8	-26.8
5	765 kV	GWALIOR-PHAGI	2	0	2246	0.0	33.6	-33.6
6	765 kV	JABALPUR-ORAI	2	0	1150	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	889	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	1158	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1380	41	17.6	0.0	17.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2076	0.0	36.1	-36.1
11	400 kV	ZERDA-KANKROLI	1	266	0	3.9	0.0	3.9
12	400 kV	ZERDA -BHINMAL	1	313	108	3.0	0.0	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	99	403	0.0	2.5	-2.5
15	220 kV	BHANPURA-RANPUR	1	128	26	1.5	0.0	1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	138	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	92	0	2.2	0.0	2.2
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	69.9	-137.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	525	5.7	7.7	-2.0
2	HVDC	RAIGARH-PUGALUR	2	963	603	8.4	0.0	8.4
3	765 kV	SOLAPUR-RAICHUR	2	1299	1379	0.0	2.6	-2.6
4	765 kV	WARDHA-NIZAMABAD	2	189	2221	0.0	26.8	-26.8
5	400 kV	KOLHAPUR-KUDGI	2	1440	0	21.7	0.0	21.7
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	97	1.4	0.0	1.4
						WR-SR	37.1	0.1

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)	128	0	99	2.4	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	184	162	179	4.3	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	34	10	10	0.2	
	NER	132kV GELEPHU-SALAKATI	6	0	1	0.0	
	NER	132kV MOTANGA-RANGIA	7	0	2	0.1	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0	
	ER	NEPAL IMPORT (FROM BIHAR)	-68	0	-14	-0.3	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-38	0	-13	-0.3	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-715	-375	-542	-13.0	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-108	0	-87	-2.1	