



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: 16th Nov 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 15.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-नवंबर-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 15th November 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: 16-Nov-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)	46664	55593	38446	18984	2474	162161
Peak Shortage (MW)	600	0	0	40	0	640
Energy Met (MU)	925	1281	802	381	43	3433
Hydro Gen (MU)	134	42	102	60	14	351
Wind Gen (MU)	5	64	49	-	-	117
Solar Gen (MU)*	55.90	34.60	70.67	4.50	0.24	166
Energy Shortage (MU)	7.60	1.28	0.00	2.27	0.28	11.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47736	61022	40056	19484	2614	165145
Time Of Maximum Demand Met (From NLDC SCADA)	18:17	11:48	18:33	18:00	17:48	18:20

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	0.031	0.00	0.39	4.47	4.86	79.53	15.61

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	5631	0	109.7	50.9	-0.3	183	4.00	
	Haryana	5803	0	113.2	78.4	-0.1	147	0.00	
	Rajasthan	13724	0	253.4	75.5	0.3	419	0.00	
	Delhi	3416	0	60.9	49.8	-1.4	175	0.00	
	UP	15531	0	266.0	105.9	-0.3	351	0.15	
	Uttarakhand	1816	0	34.7	21.8	0.8	169	0.00	
	HP	1673	0	30.2	19.3	0.4	287	0.00	
	J&K(UT) & Ladakh(UT)	2816	0	53.8	45.6	0.0	315	3.45	
WR	Chandigarh	179	0	3.0	3.5	-0.5	32	0.00	
	Chhattisgarh	3423	0	76.8	31.2	0.0	179	0.00	
	Gujarat	16797	77	347.7	202.8	-1.9	906	1.28	
	MP	13770	0	279.1	192.5	-0.5	630	0.00	
	Maharashtra	25215	0	520.8	180.6	-3.2	613	0.00	
	Goa	622	0	12.7	12.1	0.0	51	0.00	
	DD	332	0	7.2	7.1	0.1	18	0.00	
	DNH	846	0	19.4	19.1	0.3	60	0.00	
SR	AMNSIL	760	0	17.4	8.9	-0.1	257	0.00	
	Andhra Pradesh	7723	0	156.8	64.9	-0.2	425	0.00	
	Telangana	7470	0	152.9	53.9	0.2	446	0.00	
	Karnataka	8415	0	164.3	36.8	-1.3	624	0.00	
	Kerala	3457	0	68.7	29.8	-1.3	139	0.00	
	Tamil Nadu	12673	0	253.0	134.2	-2.0	488	0.00	
	Puducherry	351	0	6.7	7.4	-0.7	47	0.00	
	ER	Bihar	4228	0	72.9	64.9	-0.5	345	0.00
DVC		3132	40	63.2	-31.6	-1.8	294	1.68	
Jharkhand		1476	0	25.8	21.9	-1.9	171	0.59	
Odisha		5250	0	104.4	44.9	0.1	310	0.00	
West Bengal		6267	0	112.8	-6.7	0.7	378	0.00	
Sikkim		102	0	1.6	1.6	0.0	40	0.00	
NER		Arunachal Pradesh	139	0	2.3	2.2	0.0	57	0.00
		Assam	1494	0	24.7	17.7	0.1	83	0.00
	Manipur	203	0	2.6	2.6	0.0	26	0.28	
	Meghalava	375	0	6.5	4.9	0.2	45	0.00	
	Mizoram	112	0	1.7	1.4	-0.3	17	0.00	
	Nagaland	148	0	2.3	2.0	0.1	31	0.00	
	Tripura	214	0	3.4	1.8	-0.6	54	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.3	1.6	-18.1
Day Peak (MW)	761.0	97.0	-843.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.4	-68.1	69.0	-181.0	-7.3	0.0
Actual(MU)	183.5	-53.2	55.9	-181.0	-9.8	-4.5
O/D/U/D(MU)	-3.9	14.9	-13.1	0.0	-2.5	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6867	15355	11252	1320	500	35294	42
State Sector	14596	19829	10293	3900	11	48629	58
Total	21463	35184	21545	5220	511	83922	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	476	1159	405	529	14	2583	73
Lignite	26	11	29	0	0	66	2
Hydro	134	42	102	60	14	351	10
Nuclear	27	33	69	0	0	130	4
Gas, Naptha & Diesel	16	12	8	0	30	66	2
RES (Wind, Solar, Biomass & Others)	81	99	143	5	0	329	9
Total	761	1355	757	594	58	3525	100

Share of RES in total generation (%)	10.69	7.31	18.95	0.76	0.42	9.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.85	12.84	41.55	10.83	24.88	22.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.063

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: 16-Nov-2021			
						Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	500	0.0	6.6	-6.6	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	106	845	0.0	8.7	-8.7	
4	765 kV	SASARAM-FATEHPUR	1	0	706	0.0	9.4	-9.4	
5	765 kV	GAYA-BALIA	1	0	435	0.0	8.3	-8.3	
6	400 kV	PUSAULI-VARANASI	1	0	136	0.0	2.3	-2.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	209	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	876	0.0	14.5	-14.5	
9	400 kV	PATNA-BALIA	4	0	1023	0.0	16.9	-16.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	506	0.0	7.2	-7.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	470	0.0	7.8	-7.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	403	0.0	4.4	-4.4	
13	220 kV	PUSAULI-SAHUPURI	1	9	87	0.0	0.7	-0.7	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
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	96.0	-95.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	340	1182	0.0	13.0	-13.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	235	810	0.0	6.5	-6.5	
3	765 kV	JHARSUGUDA-DURG	2	0	434	0.0	7.4	-7.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	27	426	0.0	4.9	-4.9	
5	400 kV	RANCHI-SIPAT	2	88	237	0.0	1.6	-1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	51	54	0.0	0.0	0.0	
7	220 kV	BUDHIPADAR-KORBA	2	142	0	1.8	0.0	1.8	
						ER-WR	1.8	33.4	-31.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	556	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	35.0	-35.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3030	0.0	45.3	-45.3	
4	400 kV	TALCHER-I/C	2	501	581	0.6	0.0	0.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	92.9	-92.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	95	186	0.0	1.5	-1.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	237	137	0.0	0.1	-0.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	21	46	0.0	0.3	-0.3	
						ER-NER	0.0	2.0	-2.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	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	2539	0.0	31.4	-31.4	
2	HVDC	VINDHYACHAL B/B	-	362	0	4.8	0.0	4.8	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	1916	0.0	32.2	-32.2	
5	765 kV	GWALIOR-PHAGI	2	0	2383	0.0	38.5	-38.5	
6	765 kV	JABALPUR-ORAI	2	0	604	0.0	18.8	-18.8	
7	765 kV	GWALIOR-ORAI	1	1374	0	25.1	0.0	25.1	
8	765 kV	SATNA-ORAI	1	0	825	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1419	0	25.4	0.0	25.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2206	0.0	37.6	-37.6	
11	400 kV	ZERDA-KANKROLI	1	298	0	5.6	0.0	5.6	
12	400 kV	ZERDA-BHINMAL	1	381	0	6.0	0.0	6.0	
13	400 kV	VINDHYACHAL-RIHAND	1	978	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHUJALPUR	2	222	325	0.8	1.5	-0.7	
15	220 kV	BHANPURA-RANPUR	1	149	39	1.1	0.0	1.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.8	-0.6	
17	220 kV	MEHGAON-AURAIYA	1	128	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.9	0.0	1.9	
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	94.0	178.5	-84.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0	
2	HVDC	RAIGARH-PUGALUR	2	1738	605	2.4	0.0	2.4	
3	765 kV	SOLAPUR-RAICHUR	2	1596	2432	0.0	0.0	0.0	
4	765 kV	WARDHA-NIZAMABAD	2	251	2397	0.1	20.0	-19.9	
5	400 kV	KOLHAPUR-KUDGI	2	1114	149	15.4	0.1	15.3	
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	0	105	2.0	0.0	2.0	
						WR-SR	19.9	20.1	-0.2

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)	211	0	185	4.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	434	424	425	10.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	88	0	53	1.3
	NER	132kV GELEPHU-SALAKATI	10	0	6	0.1
	NER	132kV MOTANGA-RANGIA	18	5	10	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	97	42	66	1.6
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-749	-496	-669	-16.1
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-84	-2.0