



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: 21st 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 20.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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: 21-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)	45272	53976	36534	18374	2500	156656
Peak Shortage (MW)	200	186	0	123	0	509
Energy Met (MU)	935	1225	758	378	45	3341
Hydro Gen (MU)	125	32	92	54	14	317
Wind Gen (MU)	14	80	70	-	-	164
Solar Gen (MU)*	47.22	28.60	59.48	4.43	0.28	140
Energy Shortage (MU)	4.54	0.19	0.00	2.05	0.00	6.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46778	55940	37939	18663	2671	160534
Time Of Maximum Demand Met (From NLDC SCADA)	18:20	10:44	18:29	18:38	17:19	18:27

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	0.026	0.00	0.00	3.53	3.53	77.54	18.93

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	5939	0	113.3	54.6	-0.8	66	0.35
	Haryana	6031	0	140.8	90.9	0.6	215	0.00
	Rajasthan	12151	0	229.4	47.9	0.2	299	0.00
	Delhi	3359	0	58.1	44.4	-2.1	235	0.00
	UP	14727	0	270.2	116.7	-1.7	212	0.74
	Uttarakhand	1867	0	35.6	23.8	0.7	131	0.00
	HP	1754	0	31.2	21.3	0.1	269	0.00
	J&K(UT) & Ladakh(UT)	2694	250	52.9	47.1	-1.9	152	3.45
	Chandigarh	171	0	3.0	3.5	-0.5	29	0.00
	WR	Chhattisgarh	3625	0	79.2	25.6	0.1	230
Gujarat		15168	0	325.8	200.4	0.7	756	0.19
MP		13075	0	267.4	174.5	-2.7	508	0.00
Maharashtra		22979	0	494.8	163.0	-4.7	628	0.00
Goa		604	0	12.6	12.3	-0.3	68	0.00
DD		347	0	7.7	7.1	0.6	46	0.00
DNH		833	0	19.5	19.1	0.4	80	0.00
AMNSIL		841	0	17.9	9.2	-0.1	250	0.00
SR	Andhra Pradesh	7218	0	141.8	58.1	0.5	572	0.00
	Telangana	7012	0	141.5	48.5	-1.6	360	0.00
	Karnataka	7351	0	143.4	35.7	-2.3	344	0.00
	Kerala	3473	0	71.5	32.1	-1.0	131	0.00
	Tamil Nadu	12670	0	253.2	117.1	-1.8	563	0.00
	Puducherry	337	0	6.8	7.4	-0.7	27	0.00
ER	Bihar	3917	0	72.0	64.8	-1.9	415	0.00
	DVC	3159	0	64.1	-27.4	-2.4	500	1.06
	Jharkhand	1475	0	27.6	22.2	0.1	228	0.99
	Odisha	4817	0	96.5	40.8	-0.7	624	0.00
	West Bengal	6493	0	116.4	0.0	1.1	587	0.00
NER	Sikkim	99	0	1.6	1.6	0.0	41	0.00
	Arunachal Pradesh	135	0	2.3	2.2	-0.1	35	0.00
	Assam	1514	0	25.5	18.5	0.0	91	0.00
	Manipur	215	0	2.7	2.8	-0.1	29	0.00
	Meghalaya	367	0	6.6	5.1	0.0	44	0.00
	Mizoram	114	0	1.7	1.4	-0.1	13	0.00
	Nagaland	140	0	2.4	2.1	0.1	18	0.00
	Tripura	220	0	3.7	2.1	-0.3	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.9	1.8	-17.0
Day Peak (MW)	626.0	127.0	-841.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	176.7	-62.4	57.1	-166.3	-5.1	0.0
Actual(MU)	183.1	-58.1	48.5	-168.7	-6.1	-1.4
O/D/U/D(MU)	6.4	4.3	-8.7	-2.4	-1.0	-1.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6310	17345	11832	1800	384	37670	43
State Sector	13640	19777	11261	4288	11	48976	57
Total	19950	37121	23093	6088	395	86646	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	510	1105	389	523	11	2538	74
Lignite	24	8	35	0	0	67	2
Hvdro	125	32	92	54	14	317	9
Nuclear	24	32	47	0	0	102	3
Gas, Naptha & Diesel	19	9	9	0	30	67	2
RES (Wind, Solar, Biomass & Others)	81	109	152	4	0	347	10
Total	783	1296	723	581	56	3438	100
Share of RES in total generation (%)	10.32	8.44	21.00	0.76	0.50	10.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.32	13.38	40.21	10.04	25.33	22.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.040

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: 21-Nov-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	168	791	0.0	6.7	-6.7
4	765 kV	SASARAM-FATEHPUR	1	0	563	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	434	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	148	0.0	2.8	-2.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	196	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	663	0.0	9.8	-9.8
9	400 kV	PATNA-BALIA	4	0	1045	0.0	17.1	-17.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	443	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	379	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	74	361	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	1	20	79	0.0	0.8	-0.8
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
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	87.9	-87.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1378	0.0	15.3	-15.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	459	726	0.0	2.7	-2.7
3	765 kV	JHARSUGUDA-DURG	2	0	448	0.0	7.5	-7.5
4	400 kV	JHARSUGUDA-RAIGARH	4	116	323	0.0	2.9	-2.9
5	400 kV	RANCHI-SIPAT	2	126	222	0.0	0.9	-0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	31	74	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	161	0	2.3	0.0	2.3
						ER-WR	29.9	-27.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	43.0	-43.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2788	0.0	46.5	-46.5
4	400 kV	TALCHER-I/C	2	429	212	1.7	0.0	1.7
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	98.2	-98.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	276	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	75	245	0.0	1.3	-1.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	60	0.0	0.6	-0.6
						ER-NER	5.7	-5.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
						NER-NR	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1118	0.0	22.8	-22.8
2	HVDC	VINDHYACHAL B/B	-	450	0	11.1	0.0	11.1
3	HVDC	MUNDRAMOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1718	0.0	28.2	-28.2
5	765 kV	GWALIOR-PHAGI	2	0	1959	0.0	30.6	-30.6
6	765 kV	JABALPUR-ORAI	2	0	925	0.0	26.0	-26.0
7	765 kV	GWALIOR-ORAI	1	796	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	1119	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1311	0	19.2	0.0	19.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2323	0.0	42.5	-42.5
11	400 kV	ZERDA-KANKROLI	1	311	0	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	328	0	4.8	0.0	4.8
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	187	230	1.2	0.6	0.5
15	220 kV	BHANPURA-RANPUR	1	154	0	2.3	0.0	2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	82	0	1.7	0.0	1.7
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	172.1	-90.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0
2	HVDC	RAIGARH-PUGALUR	2	574	0	13.8	0.0	13.8
3	765 kV	SOLAPUR-RAICHUR	2	1371	1907	0.0	4.6	-4.6
4	765 kV	WARDHA-NIZAMABAD	2	159	1965	0.1	20.6	-20.5
5	400 kV	KOLHAPUR-KUDGI	2	1045	0	14.2	0.0	14.2
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	0	97	1.7	0.0	1.7
						WR-SR	29.8	4.7

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)	184	0	163	3.9	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	366	363	365	8.8	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	55	0	38	0.9	
	NER	132kV GELEPHU-SALAKATI	7	1	5	0.1	
	NER	132kV MOTANGA-RANGIA	14	0	6	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	127	26	75	1.8	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-739	-440	-622	-14.9	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-87	-2.1	