



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: 25th 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 24.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	46904	55508	38684	18335	2536	161967
Peak Shortage (MW)	450	612	0	166	0	1228
Energy Met (MU)	959	1272	809	378	46	3465
Hydro Gen (MU)	115	38	101	52	15	320
Wind Gen (MU)	5	16	25	-	-	45
Solar Gen (MU)*	59.78	41.53	74.62	4.80	0.39	181
Energy Shortage (MU)	5.28	0.93	0.00	2.33	0.00	8.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48148	57428	39130	18954	2631	164447
Time Of Maximum Demand Met (From NLDC SCADA)	18:14	10:57	18:41	17:40	17:18	18:22

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	0.038	0.00	0.47	6.83	7.30	76.70	15.99

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	6078	0	118.6	55.4	-0.4	113	1.70	
	Haryana	6402	0	123.7	89.1	1.1	182	0.00	
	Rajasthan	13403	0	245.1	71.1	2.5	521	0.00	
	Delhi	3554	0	62.2	51.3	-1.4	119	0.00	
	UP	15935	0	282.8	110.0	1.1	416	0.13	
	Uttarakhand	1910	0	36.3	24.9	0.6	200	0.00	
	HP	1769	0	31.5	22.8	-0.8	163	0.00	
	J&K(UT) & Ladakh(UT)	2649	100	55.7	48.3	2.0	883	3.45	
	Chandigarh	188	0	3.1	3.5	-0.4	29	0.00	
	WR	Chhattisgarh	3553	0	77.6	27.1	-0.1	188	0.00
Gujarat		15663	0	347.8	208.3	4.1	732	0.93	
MP		13513	0	280.7	178.3	-2.5	436	0.00	
Maharashtra		23147	0	504.8	165.5	-5.5	553	0.00	
Goa		622	0	12.8	12.2	0.1	40	0.00	
DD		349	0	7.8	7.5	0.3	58	0.00	
DNH		860	0	19.9	19.7	0.2	47	0.00	
AMNSIL		905	0	20.2	9.5	0.4	294	0.00	
SR		Andhra Pradesh	7584	0	154.9	65.7	0.0	616	0.00
		Telangana	7376	0	151.2	46.1	-1.0	622	0.00
	Karnataka	7615	0	147.3	31.2	-4.0	619	0.00	
	Kerala	3639	0	72.8	33.4	-0.8	199	0.00	
	Tamil Nadu	13480	0	275.6	165.2	0.4	816	0.00	
	Puducherry	371	0	7.5	7.8	-0.2	48	0.00	
ER	Bihar	4170	0	72.3	61.9	-0.3	210	0.00	
	DVC	3096	0	62.8	-37.8	-2.4	286	0.78	
	Jharkhand	1472	0	27.1	22.6	-0.9	210	1.55	
	Odisha	4655	0	94.4	28.0	-0.7	339	0.00	
	West Bengal	6615	0	120.0	8.0	-0.6	284	0.00	
	Sikkim	121	0	1.9	1.7	0.1	37	0.00	
NER	Arunachal Pradesh	140	0	2.1	2.3	-0.4	33	0.00	
	Assam	1466	0	26.4	18.5	1.4	101	0.00	
	Manipur	223	0	3.0	3.0	0.0	45	0.00	
	Meghalaya	380	0	7.1	5.1	0.1	34	0.00	
	Mizoram	113	0	1.6	1.5	-0.3	12	0.00	
	Nagaland	138	0	2.1	2.0	-0.1	66	0.00	
	Tripura	225	0	3.9	2.0	-0.2	33	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.4	2.0	-18.2
Day Peak (MW)	604.0	118.0	-857.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	201.6	-83.5	79.4	-191.7	-5.8	0.0
Actual(MU)	204.6	-78.3	72.2	-197.6	-6.2	-5.2
O/D/U/D(MU)	3.1	5.2	-7.2	-5.9	-0.4	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6310	16525	10732	1725	384	35675	44
State Sector	14790	18757	9606	2698	11	45861	56
Total	21100	35282	20338	4423	395	81536	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	513	1221	424	549	13	2719	76
Lignite	26	14	35	0	0	76	2
Hydro	115	38	101	52	15	320	9
Nuclear	23	33	55	0	0	110	3
Gas, Naptha & Diesel	15	10	9	0	29	64	2
RES (Wind, Solar, Biomass & Others)	84	58	124	5	0	271	8
Total	777	1373	748	606	57	3561	100

Share of RES in total generation (%)	10.84	4.20	16.55	0.80	0.69	7.61
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.58	9.32	37.33	9.42	26.18	19.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.054

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: 25-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	251	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	820	0.0	10.5	-10.5	
4	765 kV	SASARAM-FATEHPUR	1	0	546	0.0	7.6	-7.6	
5	765 kV	GAYA-BALIA	1	0	548	0.0	9.9	-9.9	
6	400 kV	PUSAULI-VARANASI	1	0	155	0.0	3.0	-3.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	182	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	626	0.0	10.4	-10.4	
9	400 kV	PATNA-BALIA	4	0	1099	0.0	19.3	-19.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	446	0.0	7.7	-7.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	386	0.0	6.4	-6.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	343	0.0	4.1	-4.1	
13	220 kV	PUSAULI-SAHUPURI	1	33	67	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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	101.0	-100.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	52	1565	0.0	22.6	-22.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	271	631	0.0	5.3	-5.3	
3	765 kV	JHARSUGUDA-DURG	2	0	463	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	92	374	0.0	5.0	-5.0	
5	400 kV	RANCHI-SIPAT	2	78	256	0.0	1.9	-1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	51	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	64	0	1.3	0.0	1.3	
						ER-WR	1.3	44.6	-43.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	385	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	36.3	-36.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3114	0.0	51.2	-51.2	
4	400 kV	TALCHER-I/C	2	777	625	6.1	0.0	6.1	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	2	0.0	0.0	0.0	
						ER-SR	0.0	96.0	-96.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	34	258	0.0	3.7	-3.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	179	217	0.0	1.3	-1.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	14	55	0.0	0.6	-0.6	
						ER-NER	0.0	5.7	-5.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	503	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2151	0.0	38.0	-38.0	
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	1924	0.0	27.3	-27.3	
5	765 kV	GWALIOR-PHAGI	2	0	2413	0.0	34.8	-34.8	
6	765 kV	JABALPUR-ORAI	2	0	1047	0.0	30.8	-30.8	
7	765 kV	GWALIOR-ORAI	1	784	0	13.5	0.0	13.5	
8	765 kV	SAINA-ORAI	1	0	1181	0.0	23.5	-23.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1574	0	29.6	0.0	29.6	
10	765 kV	VINDHYACHAL-VARANASI	0	2	2157	0.0	39.3	-39.3	
11	400 kV	ZERDA-KANKROLI	1	315	0	5.9	0.0	5.9	
12	400 kV	ZERDA-BHINMAL	1	347	0	6.1	0.0	6.1	
13	400 kV	VINDHYACHAL-RIHAND	1	980	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHILAI PUR	2	147	406	0.3	2.0	-1.7	
15	220 kV	BHANPURA-RANPUR	1	151	21	1.9	0.0	1.9	
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.6	0.1	
17	220 kV	MEHGAON-AURAIYA	1	134	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	90	0	2.1	0.0	2.1	
19	132 kV	GWALIOR-SAWAL 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	95.6	196.2	-100.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0	
2	HVDC	RAIGARH-PUGALUR	2	1452	1501	0.0	3.6	-3.6	
3	765 kV	SOLAPUR-RAICHUR	2	1161	2329	0.0	6.3	-6.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2577	0.0	29.1	-29.1	
5	400 kV	KOLHAPUR-KUDGI	2	963	0	16.1	0.0	16.1	
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	102	1.9	0.0	1.9	
						WR-SR	18.0	39.1	-21.1

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)	188	0	159	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	355	0	323	7.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	38	0	21	0.5
	NER	132kV GELEPHU-SALAKATI	8	1	5	0.1
	NER	132kV MOTANGA-RANGIA	15	1	8	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	118	50	83	2.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-744	-514	-666	-16.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-93	-2.2