



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: 27th 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 26.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th 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: 27-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)	46613	56326	37680	18453	2509	161581
Peak Shortage (MW)	2052	0	0	331	0	2383
Energy Met (MU)	977	1277	798	390	45	3486
Hydro Gen (MU)	116	34	106	51	14	322
Wind Gen (MU)	5	16	38	-	-	59
Solar Gen (MU)*	58.50	40.91	78.68	4.67	0.25	183
Energy Shortage (MU)	12.53	0.06	0.00	3.36	0.00	15.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49687	58575	38350	19060	2695	163346
Time Of Maximum Demand Met (From NLDC SCADA)	10:40	10:51	18:25	18:00	17:29	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	0.034	0.00	0.06	6.25	6.31	77.80	15.89

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	6131	550	119.5	55.7	0.1	146	4.80
	Haryana	6674	0	126.1	98.7	0.6	275	1.58
	Rajasthan	13782	0	249.8	79.1	2.2	427	1.42
	Delhi	3756	0	64.0	52.2	-0.6	165	0.00
	UP	15835	0	287.4	115.0	-1.2	692	1.07
	Uttarakhand	1967	0	37.1	26.0	1.1	229	0.00
	HP	1819	15	32.4	22.7	0.5	321	0.21
	J&K(UT) & Ladakh(UT)	2688	200	57.7	51.6	-0.1	161	3.45
	Chandigarh	193	0	3.2	3.5	-0.3	30	0.00
	WR	Chhattisgarh	3592	0	77.7	26.2	-0.1	164
Gujarat		16544	0	355.9	210.8	0.0	620	0.00
MP		14109	0	286.5	184.4	-2.1	485	0.00
Maharashtra		22741	0	498.5	158.1	-5.3	568	0.00
Goa		620	0	12.7	12.3	-0.3	71	0.06
DD		338	0	7.6	7.3	0.3	49	0.00
DNH		837	0	19.5	19.5	0.0	43	0.00
AMNSIL		822	0	18.1	8.9	0.0	285	0.00
SR	Andhra Pradesh	7598	0	155.9	66.4	0.3	591	0.00
	Telangana	7702	0	153.7	42.2	-0.3	411	0.00
	Karnataka	8109	0	151.0	26.0	-1.3	466	0.00
	Kerala	3614	0	71.3	33.3	-1.0	265	0.00
	Tamil Nadu	12757	0	259.1	139.2	0.6	554	0.00
	Puducherry	351	0	6.9	7.1	-0.2	73	0.00
ER	Bihar	4181	0	71.7	61.2	-0.5	214	0.20
	DVC	3143	0	65.6	-36.5	-1.4	334	1.11
	Jharkhand	1458	114	26.8	21.9	-0.5	249	2.06
	Odisha	5155	0	105.4	37.0	-0.9	269	0.00
	West Bengal	6538	0	118.3	3.1	-0.8	244	0.00
NER	Sikkim	119	0	1.9	1.5	0.4	83	0.00
	Arunachal Pradesh	129	0	2.4	2.1	0.1	26	0.00
	Assam	1515	0	25.0	18.5	0.4	52	0.00
	Manipur	219	0	3.0	3.0	0.0	20	0.00
	Meghalaya	376	0	7.0	5.4	0.0	32	0.00
	Mizoram	119	0	1.6	1.4	-0.2	14	0.00
	Nagaland	135	0	2.6	2.1	0.3	20	0.00
	Tripura	219	0	3.6	1.5	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.4	1.6	-14.5
Day Peak (MW)	701.0	155.0	-782.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	220.4	-101.4	56.1	-168.4	-6.7	0.0
Actual(MU)	231.9	-108.4	49.9	-170.1	-5.8	-2.4
O/D/U/D(MU)	11.5	-7.0	-6.2	-1.6	1.0	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6920	14945	12082	2930	384	37260	45
State Sector	13730	17539	10971	3508	11	45758	55
Total	20650	32484	23053	6438	395	83018	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	510	1263	410	527	12	2723	76
Lignite	25	15	17	0	0	57	2
Hvdro	116	34	106	51	14	322	9
Nuclear	23	33	69	0	0	125	3
Gas, Naptha & Diesel	16	10	19	0	29	74	2
RES (Wind, Solar, Biomass & Others)	83	58	143	5	0	288	8
Total	773	1413	764	583	55	3589	100
Share of RES in total generation (%)	10.74	4.10	18.65	0.79	0.45	8.04	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.72	8.86	41.60	9.56	25.27	20.48	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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: 27-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	502	0.0	12.4	-12.4
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	850	0.0	11.3	-11.3
4	765 kV	SASARAM-FATEHPUR	1	0	505	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	574	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	155	0.0	2.8	-2.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	714	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	4	0	1096	0.0	19.9	-19.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	431	0.0	7.1	-7.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	411	0.0	6.7	-6.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	366	0.0	4.8	-4.8
13	220 kV	PUSAULI-SAHUPURI	1	6	80	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.1	-0.1
15	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.3
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	103.4	-103.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	725	818	0.0	1.3	-1.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	19	862	0.0	8.6	-8.6
3	765 kV	JHARSUGUDA-DURG	2	82	261	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	154	304	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	87	286	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	18	68	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	128	21	1.4	0.0	1.4
						ER-WR	16.0	-14.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	384	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	34.0	-34.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3052	0.0	50.6	-50.6
4	400 kV	TALCHER-I/C	2	845	308	7.3	0.0	7.3
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	93.2	-93.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	242	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	102	215	0.0	1.4	-1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	3	54	0.0	0.6	-0.6
						ER-NER	6.0	-6.0
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	3027	0.0	52.2	-52.2
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	140	1849	0.0	25.6	-25.6
5	765 kV	GWALIOR-PHAGI	2	0	2406	0.0	40.5	-40.5
6	765 kV	JABALPUR-ORAI	2	0	979	0.0	29.6	-29.6
7	765 kV	GWALIOR-ORAI	1	913	0	16.5	0.0	16.5
8	765 kV	SATNA-ORAI	1	0	1276	0.0	23.7	-23.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1721	0	26.6	0.0	26.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2261	0.0	40.8	-40.8
11	400 kV	ZERDA-KANKROLI	1	342	0	5.2	0.0	5.2
12	400 kV	ZERDA -BHINMAL	1	357	119	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	137	536	0.0	3.0	-3.0
15	220 kV	BHANPURA-RANPUR	1	142	51	1.7	0.1	1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	134	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	91	0	2.0	0.0	2.0
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	216.2	-123.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	90	8	1.0	0.0	1.0
2	HVDC	RAIGARH-PUGALUR	2	1930	0	28.7	0.0	28.7
3	765 kV	SOLAPUR-RAICHUR	2	1363	2475	0.0	14.4	-14.4
4	765 kV	WARDHA-NIZAMABAD	2	54	2508	0.0	30.4	-30.4
5	400 kV	KOLHAPUR-KUDGI	2	1241	0	14.0	0.0	14.0
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	44.7	0.4

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)	228	0	159	3.8
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	365	317	328	7.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	72	0	13	0.3
	NER	132kV GELEPHU-SALAKATI	14	1	7	0.2
	NER	132kV MOTANGA-RANGIA	22	2	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	155	37	67	1.6
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-692	-410	-524	-12.6
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-78	-1.9