



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: 17th 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 16.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	46934	55208	38409	18732	2501	161784
Peak Shortage (MW)	200	0	0	104	0	304
Energy Met (MU)	946	1283	809	383	45	3467
Hydro Gen (MU)	130	35	99	57	14	335
Wind Gen (MU)	10	121	34	-	-	164
Solar Gen (MU)*	57.34	34.36	67.78	4.64	0.27	164
Energy Shortage (MU)	4.52	0.00	0.00	1.51	0.19	6.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48461	59796	39900	19103	2659	166194
Time Of Maximum Demand Met (From NLDC SCADA)	18:19	10:58	18:24	18:47	17:19	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	0.028	0.00	0.00	2.31	2.31	79.62	18.07

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	5924	0	113.7	52.0	-0.6	207	0.45
	Haryana	5786	0	116.7	81.9	-0.1	134	0.00
	Rajasthan	13827	0	251.6	72.7	0.6	357	0.00
	Delhi	3396	0	60.6	50.5	-1.7	131	0.00
	UP	15440	0	280.0	113.0	-1.0	453	0.62
	Uttarakhand	1873	0	35.1	23.6	0.6	123	0.00
	HP	1691	0	30.9	20.8	-0.3	242	0.00
	J&K(UT) & Ladakh(UT)	2938	200	54.8	45.8	0.9	413	3.45
	Chandigarh	180	0	3.1	3.7	-0.7	5	0.00
	WR	Chhattisgarh	3443	0	75.9	28.9	-0.6	150
Gujarat		16508	0	351.4	181.7	1.2	825	0.00
MP		13508	0	276.2	185.8	-2.4	540	0.00
Maharashtra		25014	0	521.4	176.5	-5.7	675	0.00
Goa		593	0	12.8	12.6	-0.4	35	0.00
DD		343	0	7.5	7.2	0.3	38	0.00
DNH		846	0	19.5	19.4	0.1	50	0.00
AMNSIL		868	0	18.6	9.6	0.2	130	0.00
SR	Andhra Pradesh	7699	0	156.8	61.6	0.8	542	0.00
	Telangana	7353	0	151.0	51.5	-0.9	432	0.00
	Karnataka	8457	0	161.7	36.5	-2.1	628	0.00
	Kerala	3475	0	70.2	30.1	-1.2	242	0.00
	Tamil Nadu	13157	0	262.6	147.2	1.5	627	0.00
	Puducherry	367	0	7.0	7.3	-0.3	40	0.00
	Bihar	4249	0	74.5	61.8	1.9	287	0.00
ER	DVC	3075	0	62.7	-31.2	-2.6	269	0.48
	Jharkhand	1469	0	26.2	22.3	-2.0	136	1.03
	Odisha	5188	0	102.0	43.2	-0.6	360	0.00
	West Bengal	6405	0	116.2	-2.3	0.1	345	0.00
	Sikkim	104	0	1.6	1.7	0.0	23	0.00
NER	Arunachal Pradesh	123	0	2.2	2.2	-0.1	20	0.00
	Assam	1541	0	26.0	18.7	0.0	65	0.00
	Manipur	209	0	2.7	2.7	0.0	39	0.19
	Meghalaya	373	0	6.5	5.0	0.0	37	0.00
	Mizoram	119	0	1.7	1.5	-0.2	6	0.00
	Nagaland	124	0	2.1	2.0	-0.1	22	0.00
	Tripura	231	0	3.8	2.0	-0.3	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	15.8	1.6	-18.3
Day Peak (MW)	796.0	99.0	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.8	-88.0	76.7	-175.5	-6.0	0.0
Actual(MU)	195.6	-88.9	75.6	-180.9	-7.5	-6.2
O/D/U/D(MU)	2.8	-0.9	-1.1	-5.5	-1.5	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6210	14965	11252	1530	350	34307	43
State Sector	13276	20043	9953	4150	11	47433	57
Total	19486	35008	21205	5680	361	81739	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	488	1146	406	526	12	2879	73
Lignite	27	8	31	0	0	66	2
Hvdro	130	35	99	57	14	335	9
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	16	11	9	0	30	65	2
RES (Wind, Solar, Biomass & Others)	87	156	134	5	0	381	11
Total	775	1389	747	588	57	3556	100
Share of RES in total generation (%)	11.18	11.22	17.88	0.79	0.47	10.72	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.48	16.11	40.32	10.45	25.61	23.76	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.059

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: 17-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	350	0.0	7.7	-7.7	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	882	0.0	10.4	-10.4	
4	765 kV	SASARAM-FATEHPUR	1	0	607	0.0	8.6	-8.6	
5	765 kV	GAYA-BALIA	1	0	430	0.0	7.3	-7.3	
6	400 kV	PUSAULI-VARANASI	1	0	148	0.0	2.7	-2.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	191	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	738	0.0	11.2	-11.2	
9	400 kV	PATNA-BALIA	4	0	1122	0.0	16.4	-16.4	
10	400 kV	BIHARSHARIFF-BALIA	2	0	523	0.0	6.3	-6.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	390	0.0	6.4	-6.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	403	0.0	4.6	-4.6	
13	220 kV	PUSAULI-SAHUPURI	1	14	63	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	0.4	0.0	0.4	
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	0.4	91.5	-91.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	396	964	0.0	9.2	-9.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	235	798	0.0	6.7	-6.7	
3	765 kV	JHARSUGUDA-DURG	2	0	428	0.0	7.4	-7.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	68	348	0.0	2.4	-2.4	
5	400 kV	RANCHI-SIPAT	2	83	235	0.0	1.8	-1.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	47	46	0.1	0.0	0.1	
7	220 kV	BUDHIPADAR-KORBA	2	145	0	2.0	0.0	2.0	
						ER-WR	2.2	27.5	-25.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	559	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3003	0.0	49.4	-49.4	
4	400 kV	TALCHER-I/C	2	0	638	0.0	4.2	-4.2	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	101.4	-101.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	50	180	0.0	2.4	-2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	171	182	0.0	1.5	-1.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	19	43	0.0	0.5	-0.5	
						ER-NER	0.0	4.4	-4.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-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	2530	0.0	41.3	-41.3	
2	HVDC	VINDHYACHAL B/B	-	45	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	1757	0.0	29.7	-29.7	
5	765 kV	GWALIOR-PHAGI	2	0	2129	0.0	33.0	-33.0	
6	765 kV	JABALPUR-ORAI	2	0	486	0.0	16.5	-16.5	
7	765 kV	GWALIOR-ORAI	1	1257	0	23.0	0.0	23.0	
8	765 kV	SAINA-ORAI	1	0	781	0.0	16.9	-16.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1209	0.0	16.8	0.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2099	0.0	39.3	-39.3	
11	400 kV	ZERDA-KANKROLI	1	293	0	4.7	0.0	4.7	
12	400 kV	ZERDA-BHINMAL	1	413	42	5.1	0.0	5.1	
13	400 kV	VINDHYACHAL-RIHAND	1	976	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHILJALPUR	2	369	353	1.6	1.4	0.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	86	0	1.8	0.0	1.8	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	77.2	178.9	-101.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0	
2	HVDC	RAIGARH-PUGALUR	2	966	701	12.9	0.0	12.9	
3	765 kV	SOLAPUR-RAICHUR	2	941	2430	0.0	11.3	-11.3	
4	765 kV	WARDHA-NIZAMABAD	2	66	2388	0.0	26.5	-26.5	
5	400 kV	KOLHAPUR-KUDGI	2	871	47	11.6	0.0	11.6	
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	96	1.9	0.0	1.9	
						WR-SR	26.4	37.8	-11.4

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)	216	0	186	4.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	485	0	408	9.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	66	0	48	1.2
	NER	132kV GELEPHU-SALAKATI	9	1	6	0.1
	NER	132kV MOTANGA-RANGIA	19	2	9	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	99	44	65	1.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-746	-498	-675	-16.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-108	0	-88	-2.1