



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: 10th 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 09.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9th 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: 10-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)	45973	51739	38271	19428	2590	158001
Peak Shortage (MW)	225	40	0	154	0	419
Energy Met (MU)	923	1185	822	395	46	3371
Hydro Gen (MU)	133	32	141	66	16	388
Wind Gen (MU)	2	58	28	-	-	88
Solar Gen (MU)*	55.77	41.05	72.80	4.71	0.33	175
Energy Shortage (MU)	7.43	0.08	0.00	2.16	0.14	9.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46868	55714	39220	20134	2737	160846
Time Of Maximum Demand Met (From NLDC SCADA)	18:17	11:00	18:30	17:59	17:28	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	0.041	0.00	0.65	8.04	8.69	76.18	15.13

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	5896	0	113.7	56.6	-0.9	237	1.45
	Haryana	5830	0	116.1	86.4	0.0	139	0.00
	Rajasthan	12982	434	242.7	78.7	1.7	356	0.66
	Delhi	3290	0	62.7	50.4	-1.8	113	0.00
	UP	14865	0	266.1	95.7	-0.6	298	1.46
	Uttarakhand	1783	0	34.4	21.6	0.8	134	0.00
	HP	1671	25	30.8	17.7	-0.9	199	0.41
	J&K(UT) & Ladakh(UT)	2658	200	53.0	45.1	1.2	233	3.45
	Chandigarh	174	0	3.1	3.6	-0.5	20	0.00
	WR	Chhattisgarh	3541	0	75.4	34.1	0.0	174
Gujarat		14892	0	315.6	200.9	1.9	632	0.00
MP		12166	0	252.7	176.7	0.1	932	0.00
Maharashtra		23568	0	485.1	141.2	-4.3	783	0.00
Goa		609	0	12.7	12.6	-0.3	52	0.08
DD		339	0	7.4	7.1	0.3	50	0.00
DNH		834	0	19.0	19.2	-0.2	70	0.00
AMNSIL		764	0	17.3	9.2	-0.1	325	0.00
SR	Andhra Pradesh	7865	0	166.3	56.4	0.2	439	0.00
	Telangana	8015	0	158.9	36.3	0.1	491	0.00
	Karnataka	9089	0	174.1	36.4	-3.4	495	0.00
	Kerala	3523	0	70.8	31.1	-0.6	261	0.00
	Tamil Nadu	12182	0	245.2	155.6	-2.4	511	0.00
	Puducherry	350	0	6.8	7.2	-0.4	98	0.00
ER	Bihar	4240	0	78.5	69.5	0.2	266	0.00
	DVC	3306	0	67.0	-44.4	1.0	297	1.00
	Jharkhand	1426	0	26.8	21.6	-1.0	128	1.16
	Odisha	5232	0	100.4	42.6	-1.1	373	0.00
	West Bengal	6649	0	120.7	1.2	0.2	428	0.00
NER	Sikkim	100	0	1.5	1.1	0.4	56	0.00
	Arunachal Pradesh	127	0	2.2	2.1	0.0	39	0.00
	Assam	1577	0	26.8	19.7	0.0	98	0.00
	Manipur	201	0	2.5	2.6	-0.1	24	0.14
	Meghalaya	363	0	6.6	4.6	0.0	212	0.00
	Mizoram	111	0	1.6	1.3	-0.2	16	0.00
	Nagaland	141	0	2.5	2.0	0.2	24	0.00
	Tripura	244	0	4.1	2.1	-0.1	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	19.5	1.4	-19.0
Day Peak (MW)	878.0	100.0	-870.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	196.0	-62.7	45.7	-173.2	-5.8	0.0
Actual(MU)	205.7	-62.3	37.4	-174.4	-6.7	-0.2
O/D/U/D(MU)	9.7	0.5	-8.3	-1.3	-0.9	-0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7323	18165	10512	1968	534	38501	44
State Sector	13546	21187	9173	4353	11	48269	56
Total	20869	39351	19685	6321	545	86770	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	472	1072	431	524	13	2512	73
Lignite	23	12	21	0	0	56	2
Hvdro	133	32	141	66	16	388	11
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	18	13	7	0	29	67	2
RES (Wind, Solar, Biomass & Others)	73	100	128	5	0	306	9
Total	747	1262	797	594	57	3458	100
Share of RES in total generation (%)	9.83	7.91	16.05	0.80	0.58	8.86	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.25	13.09	42.34	11.94	27.65	23.80	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.061

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: 10-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	500	0.0	10.6	-10.6	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	660	0.0	8.6	-8.6	
4	765 kV	SASARAM-FATEHPUR	1	0	606	0.0	9.8	-9.8	
5	765 kV	GAYA-BALIA	1	0	523	0.0	9.4	-9.4	
6	400 kV	PUSAULI-VARANASI	1	0	166	0.0	3.3	-3.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	141	0.0	2.7	-2.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	923	0.0	14.7	-14.7	
9	400 kV	PATNA-BALIA	4	0	641	0.0	9.9	-9.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	571	0.0	8.2	-8.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	478	0.0	7.8	-7.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	327	0.0	4.5	-4.5	
13	220 kV	PUSAULI-SAHUPURI	1	6	85	0.0	1.0	-1.0	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	96.4	-96.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	370	766	0.0	8.1	-8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	162	709	0.0	6.2	-6.2	
3	765 kV	JHARSUGUDA-DURG	2	0	566	0.0	8.4	-8.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	409	0.0	5.9	-5.9	
5	400 kV	RANCHI-SIPAT	2	30	251	0.0	2.5	-2.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	109	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	62	31	0.5	0.0	0.5	
						ER-WR	0.5	32.4	-32.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	557	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	34.9	-34.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2388	0.0	36.4	-36.4	
4	400 kV	TALCHER-I/C	2	525	303	1.8	0.0	1.8	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	84.0	-84.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	5	207	0.0	2.6	-2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	90	304	0.0	1.5	-1.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	74	0.0	0.7	-0.7	
						ER-NER	0.0	4.8	-4.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	0	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	2500	0.0	40.6	-40.6	
2	HVDC	VINDHYACHAL B/B	-	316	0	6.1	0.0	6.1	
3	HVDC	MUNDRAMOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	2095	0.0	34.4	-34.4	
5	765 kV	GWALIOR-PHAGI	2	0	2398	0.0	44.5	-44.5	
6	765 kV	JABALPUR-ORAI	2	538	537	0.0	20.2	-20.2	
7	765 kV	GWALIOR-ORAI	1	1301	0	26.7	0.0	26.7	
8	765 kV	SATNA-ORAI	1	0	807	0.0	17.1	-17.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1680	0	31.3	0.0	31.3	
10	765 kV	VINDHYACHAL-VARANASI	2	2131	2270	0.0	42.5	-42.5	
11	400 kV	ZERDA-KANKROLI	1	313	0	5.9	0.0	5.9	
12	400 kV	ZERDA -BHINMAL	1	362	43	5.2	0.0	5.2	
13	400 kV	VINDHYACHAL -RIHAND	1	981	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUALPUR	2	33	442	0.0	4.7	-4.7	
15	220 kV	BHANPURA-RANPUR	1	65	45	0.7	0.1	0.6	
16	220 kV	BHANPURA-MORAK	1	0	30	1.6	0.0	1.6	
17	220 kV	MEHGAON-AURAIYA	1	103	1	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.0	0.0	1.0	
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	101.3	204.1	-102.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	395	0	9.7	0.0	9.7	
2	HVDC	RAIGARH-PUGALUR	2	571	606	0.0	14.6	-14.6	
3	765 kV	SOLAPUR-RAICHUR	2	2254	1404	9.8	0.0	9.8	
4	765 kV	WARDHA-NIZAMABAD	2	712	1763	0.0	12.9	-12.9	
5	400 kV	KOLHAPUR-KUDGI	2	1116	0	15.3	0.0	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	85	1.4	0.0	1.4	
						WR-SR	36.1	27.5	8.6

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)	243	0	218	5.2
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	507	374	495	11.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	96	0	77	1.8
	NER	132kV GELEPHU-SALAKATI	12	5	9	0.2
	NER	132kV MOTANGA-RANGIA	20	4	13	0.3
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	100	52	60	1.4
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-756	-562	-701	-16.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	114	0	-90	-2.2