



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: 14th 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 13.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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: 14-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)	46484	54151	37991	19792	2507	160925
Peak Shortage (MW)	200	0	0	60	0	260
Energy Met (MU)	926	1250	799	389	45	3409
Hydro Gen (MU)	133	37	122	60	14	366
Wind Gen (MU)	7	73	42	-	-	123
Solar Gen (MU)*	56.72	34.69	60.58	4.02	0.29	156
Energy Shortage (MU)	4.42	0.00	0.00	0.63	0.17	5.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47575	58223	39779	20149	2620	164875
Time Of Maximum Demand Met (From NLDC SCADA)	18:13	11:36	18:31	17:40	17:31	18:24

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	0.046	0.43	1.30	6.99	8.71	76.37	14.92

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	5916	0	115.4	51.4	-1.3	130	0.68
	Haryana	5770	0	116.0	79.9	0.6	181	0.00
	Rajasthan	13792	0	252.9	78.3	0.8	260	0.00
	Delhi	3244	0	58.8	47.9	-1.4	134	0.00
	UP	15479	0	265.6	109.9	0.4	313	0.13
	Uttarakhand	1839	0	35.6	21.8	1.1	104	0.00
	HP	1623	15	30.1	19.4	-0.2	242	0.16
	J&K(UT) & Ladakh(UT)	2694	250	48.6	45.6	-4.2	337	3.45
	Chandigarh	173	0	3.0	3.7	-0.7	13	0.00
	Chhattisgarh	3219	0	73.9	33.1	-0.6	178	0.00
WR	Gujarat	15939	0	344.0	201.9	1.3	648	0.00
	MP	12975	0	271.5	185.3	-0.4	959	0.00
	Maharashtra	24192	0	503.0	171.4	-3.2	643	0.00
	Goa	626	0	13.1	12.1	0.4	41	0.00
	DD	340	0	7.5	7.2	0.3	27	0.00
	DNH	826	0	18.8	18.3	0.5	64	0.00
	AMNSIL	823	0	18.4	9.3	-0.2	250	0.00
SR	Andhra Pradesh	7794	0	151.7	45.9	-0.1	566	0.00
	Telangana	7360	0	150.9	43.2	-0.7	416	0.00
	Karnataka	8915	0	169.3	43.9	-2.2	466	0.00
	Kerala	3424	0	70.3	32.9	-1.1	162	0.00
	Tamil Nadu	12488	0	249.9	137.6	-1.2	444	0.00
	Puducherry	352	0	6.8	7.8	-1.0	58	0.00
	Bihar	4272	0	72.8	64.7	-1.8	371	0.00
ER	DVC	3148	0	62.8	-31.9	-1.3	389	0.53
	Jharkhand	1406	0	26.1	21.5	-1.3	267	0.10
	Odisha	5582	0	105.5	45.7	-1.1	540	0.00
	West Bengal	6817	0	120.0	-2.9	-0.1	459	0.00
	Sikkim	102	0	1.5	1.6	-0.1	31	0.00
NER	Arunachal Pradesh	125	0	2.2	2.2	-0.1	22	0.00
	Assam	1513	0	26.0	19.6	0.3	99	0.00
	Manipur	191	0	2.5	2.6	-0.1	18	0.17
	Meghalaya	382	0	6.4	4.6	0.0	49	0.00
	Mizoram	112	0	1.7	1.4	-0.2	19	0.00
	Nagaland	142	0	2.3	2.0	0.1	40	0.00
	Tripura	213	0	3.9	2.4	-0.4	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.9	1.6	-19.6
Day Peak (MW)	796.0	133.0	-855.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	183.6	-59.1	46.0	-165.8	-4.7	0.0
Actual(MU)	187.3	-50.2	32.5	-170.7	-6.3	-7.3
O/D/U/D(MU)	3.8	8.9	-13.5	-4.9	-1.6	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7027	15865	10382	2675	559	36507	42
State Sector	13856	22019	10083	3983	11	49951	58
Total	20883	37884	20465	6658	570	86458	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	487	1115	424	530	13	2568	73
Lignite	28	11	31	0	0	70	2
Hydro	133	37	122	60	14	366	10
Nuclear	27	33	68	0	0	128	4
Gas, Naptha & Diesel	16	11	9	0	28	64	2
RES (Wind, Solar, Biomass & Others)	74	109	125	4	0	312	9
Total	765	1316	778	594	56	3509	100
Share of RES in total generation (%)	9.64	8.25	16.10	0.68	0.52	8.89	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.58	13.58	40.47	10.79	26.08	22.98	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
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: 14-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	118	779	0.0	8.0	-8.0
4	765 kV	SASARAM-FATEHPUR	1	0	581	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	482	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	0	148	0.0	2.8	-2.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	172	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	854	0.0	14.3	-14.3
9	400 kV	PATNA-BALIA	4	0	1044	0.0	16.0	-16.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	600	0.0	8.3	-8.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	420	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	3	395	0.0	4.4	-4.4
13	220 kV	PUSAULI-SAHUPURI	1	25	73	0.0	0.8	-0.8
14	132 kV	SONE NAGAR-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	88.0	-87.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1340	0.0	18.5	-18.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	396	530	0.0	3.2	-3.2
3	765 kV	JHARSUGUDA-DURG	2	0	471	0.0	6.7	-6.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	535	0.0	7.3	-7.3
5	400 kV	RANCHI-SIPAT	2	104	203	0.0	2.1	-2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	58	45	0.1	0.0	0.1
7	220 kV	BUDHIPADAR-KORBA	2	141	5	1.7	0.0	1.7
						ER-WR	37.9	-36.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	561	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	41.7	-41.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2317	0.0	35.8	-35.8
4	400 kV	TALCHER-I/C	2	244	297	1.7	0.0	1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	90.0	-90.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	41	130	0.0	1.6	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	8	263	0.0	3.6	-3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	58	0.0	0.7	-0.7
						ER-NER	5.8	-5.8
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	1826	0.0	30.5	-30.5
2	HVDC	VINDHYACHAL B/B	-	362	0	9.7	0.0	9.7
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2101	0.0	35.7	-35.7
5	765 kV	GWALIOR-PHAGI	2	0	2208	0.0	38.7	-38.7
6	765 kV	JABALPUR-ORAI	2	0	583	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	1393	0	25.7	0.0	25.7
8	765 kV	SATNA-ORAI	1	0	775	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1539	0	23.7	0.0	23.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2392	0.0	45.0	-45.0
11	400 kV	ZERDA-KANKROLI	1	275	0	5.3	0.0	5.3
12	400 kV	ZERDA - BHNMAL	1	362	0	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	167	402	0.2	3.4	-3.2
15	220 kV	BHANPURA-RANPUR	1	119	68	1.2	0.1	1.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	115	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	77	0	1.5	0.0	1.5
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	192.2	-96.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	2194	1116	14.0	0.0	14.0
4	765 kV	WARDHA-NIZAMABAD	2	923	1392	2.2	8.7	-6.4
5	400 kV	KOLHAPUR-KUDGI	2	1216	0	16.9	0.0	16.9
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	100	1.9	0.0	1.9
						WR-SR	35.0	11.7

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)	218	0	198	4.8
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	468	445	468	11.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	94	0	63	1.5
	NER	132kV GELEPHU-SALAKATI	13	2	7	0.2
	NER	132kV MOTANGA-RANGIA	20	3	10	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	133	32	65	1.6
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-753	-503	-731	-17.5
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-84	-2.0