



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: 15th 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 14.11.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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)	43576	52567	34907	18804	2372	152226
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	904	1243	755	379	43	3324
Hydro Gen (MU)	130	29	107	56	14	337
Wind Gen (MU)	4	53	41	-	-	97
Solar Gen (MU)*	57.97	33.85	64.57	4.73	0.24	161
Energy Shortage (MU)	4.35	0.38	0.00	1.12	0.29	6.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45145	57580	36360	18974	2493	156185
Time Of Maximum Demand Met (From NLDC SCADA)	18:17	10:59	18:25	18:00	17:32	18:25

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	0.023	0.00	0.01	2.23	2.25	82.93	14.82

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	5651	0	109.4	50.3	-1.8	139	0.00
	Haryana	5258	0	104.9	76.3	-0.4	222	0.00
	Rajasthan	13691	0	248.0	76.6	0.2	305	0.00
	Delhi	3260	0	57.7	46.4	-1.2	102	0.00
	UP	15031	0	272.4	109.6	-1.2	478	0.90
	Uttarakhand	1783	0	32.9	19.9	0.6	110	0.00
	HP	1536	0	28.2	18.1	-0.1	249	0.00
	J&K(UT) & Ladakh(UT)	2482	250	47.9	45.9	-4.8	119	3.45
	Chandigarh	154	0	2.7	3.5	-0.8	11	0.00
	Chhattisgarh	3450	0	75.9	27.1	0.7	293	0.00
WR	Gujarat	15861	0	336.7	209.6	1.8	812	0.38
	MP	13340	0	274.7	194.2	0.8	703	0.00
	Maharashtra	23469	0	499.9	173.6	-2.0	771	0.00
	Goa	527	0	12.6	11.3	0.6	40	0.00
	DD	311	0	7.1	7.0	0.1	22	0.00
	DNH	817	0	18.9	18.9	0.0	48	0.00
	AMNSIL	757	0	17.3	9.2	-0.4	228	0.00
SR	Andhra Pradesh	7341	0	151.9	56.0	-0.9	399	0.00
	Telangana	6988	0	147.0	43.3	0.0	424	0.00
	Karnataka	8115	0	155.4	31.9	-1.7	597	0.00
	Kerala	3125	0	63.3	26.3	-0.8	201	0.00
	Tamil Nadu	10875	0	231.1	122.4	-2.0	638	0.00
	Puducherry	317	0	6.5	6.8	-0.3	70	0.00
ER	Bihar	4255	0	73.1	65.0	-1.8	240	0.00
	DVC	3048	0	62.4	-29.9	-2.0	336	0.98
	Jharkhand	1400	0	25.2	21.3	-1.8	215	0.14
	Odisha	5429	0	109.1	48.6	-0.7	355	0.00
	West Bengal	5722	0	107.9	-7.2	0.7	422	0.00
NER	Sikkim	88	0	1.3	1.3	0.1	15	0.00
	Arunachal Pradesh	125	0	2.2	2.2	-0.1	18	0.00
	Assam	1427	0	24.7	18.2	0.0	72	0.00
	Manipur	192	0	2.5	2.6	-0.1	20	0.29
	Meghalaya	358	0	6.4	4.7	0.1	44	0.00
	Mizoram	105	0	1.7	1.4	-0.2	10	0.00
	Nagaland	133	0	2.3	2.1	0.0	23	0.00
	Tripura	212	0	3.5	1.5	-0.4	27	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.0	1.5	-18.5
Day Peak (MW)	772.0	106.0	-835.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	184.8	-49.7	23.8	-153.4	-5.5	0.0
Actual(MU)	183.2	-25.4	10.6	-164.0	-7.4	-3.0
O/D/U/D(MU)	-1.6	24.3	-13.2	-10.6	-1.9	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7527	14555	11252	1980	409	35722	42
State Sector	13396	22349	10503	3900	11	50159	58
Total	20923	36904	21755	5880	420	85881	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	463	1113	415	521	11	2524	74
Lignite	30	11	28	0	0	70	2
Hydro	130	29	107	56	14	337	10
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	16	11	9	0	29	64	2
RES (Wind, Solar, Biomass & Others)	82	87	129	5	0	303	9
Total	748	1285	757	582	55	3427	100
Share of RES in total generation (%)	10.99	6.78	17.02	0.81	0.44	8.84	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.02	11.64	40.30	10.48	26.75	22.46	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.067

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: 15-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	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	114	774	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	1	0	596	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	434	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	141	0.0	2.7	-2.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	185	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	890	0.0	14.5	-14.5
9	400 kV	PATNA-BALIA	4	0	931	0.0	14.9	-14.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	535	0.0	7.8	-7.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	435	0.0	7.4	-7.4
12	400 kV	BIHARSHARIFF-VARANASI	2	1	394	0.0	4.6	-4.6
13	220 kV	PUSAULI-SAHUPURI	1	15	84	0.0	0.9	-0.9
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	87.0	-86.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1632	0.0	21.4	-21.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	365	635	0.0	3.6	-3.6
3	765 kV	JHARSUGUDA-DURG	2	0	534	0.0	9.0	-9.0
4	400 kV	JHARSUGUDA-RAIGARH	4	2	433	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	103	208	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	80	44	0.6	0.0	0.6
7	220 kV	BUDHIPADAR-KORBA	2	163	0	2.6	0.0	2.6
						ER-WR	3.1	-37.3
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	1979	0.0	36.4	-36.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2305	0.0	32.9	-32.9
4	400 kV	TALCHER-I/C	2	770	262	4.3	0.0	4.3
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	81.9	-81.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	94	136	0.0	1.2	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	63	258	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	2	57	0.0	0.6	-0.6
						ER-NER	4.7	-4.7
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	2567	0.0	31.0	-31.0
2	HVDC	VINDHYACHAL B/B	-	362	0	9.7	0.0	9.7
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2003	0.0	35.0	-35.0
5	765 kV	GWALIOR-PHAGI	2	0	2280	0.0	40.0	-40.0
6	765 kV	JABALPUR-ORAI	2	0	612	0.0	21.4	-21.4
7	765 kV	GWALIOR-ORAI	1	1348	0	25.9	0.0	25.9
8	765 kV	SATNA-ORAI	1	0	804	0.0	17.0	-17.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1787	0	28.4	0.0	28.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2294	0.0	46.3	-46.3
11	400 kV	ZERDA-KANKROLI	1	320	0	5.8	0.0	5.8
12	400 kV	ZERDA - BHINMAL	1	442	0	6.4	0.0	6.4
13	400 kV	VINDHYACHAL - RIHAND	1	973	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	110	147	0.2	1.8	-1.6
15	220 kV	BHANPURA-RANPUR	1	151	108	1.6	0.1	1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	128	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.6	0.0	1.6
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	194.1	-91.7
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	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	2799	710	23.7	0.0	23.7
4	765 kV	WARDHA-NIZAMABAD	2	1254	1338	4.7	8.5	-3.7
5	400 kV	KOLHAPUR-KUDGI	2	1455	0	21.8	0.0	21.8
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	97	1.8	0.0	1.8
						WR-SR	52.1	29.1

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)	207	0	193	4.6	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	459	0	441	10.6	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	76	0	55	1.3	
	NER	132kV GELEPHU-SALAKATI	10	1	7	0.2	
	NER	132kV MOTANGA-RANGIA	20	7	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	106	36	63	1.5	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-746	-527	-690	-16.6	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-89	0	-80	-1.9	