National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 18th 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., डोंगतिएह, 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 17.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-नवंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 17th 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:** **18-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)	46630	54373	38264	18657	2521	160445
Peak Shortage (MW)	438	0	0	137	0	575
Energy Met (MU)	949	1276	808	380	45	3458
Hydro Gen (MU)	128	38	116	55	13	350
Wind Gen (MU)	20	100	31	-	-	151
Solar Gen (MU)*	52.62	27.43	58.33	4.47	0.28	143
Energy Shortage (MU)	4.71	2.33	0.00	1.33	0.21	8.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47646	60150	39702	19111	2660	164598
Time Of Maximum Demand Met (From NLDC SCADA)	18:18	11:24	18:25	18:15	17:24	18:26

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	0.100	0.87	6.87	16.26	24.00	63.86	12.14

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	5960	0	114.1	54.6	-1.7	186	0.00
	Haryana	5784	0	117.3	84.3	0.5	171	0.66
	Rajasthan	14213	0	253.3	63.7	0.1	540	0.00
	Delhi	3531	0	63.5	51.3	-1.0	194	0.00
	UP	15489	0	277.8	111.4	-1.8	241	0.60
	Uttarakhand	1876	0	35.5	23.9	0.7	142	0.00
	HP	1695	0	30.9	20.9	-0.3	311	0.00
	J&K(UT) & Ladakh(UT)	2693	250	53.2	47.5	0.1	311	3.45
	Chandigarh	181	0	3.1	3.8	-0.7	7	0.00
WR	Chhattisgarh	3525	0	77.0	29.7	0.8	245	0.00
	Gujarat	16294	0	352.5	187.0	3.7	835	2.33
	MP	13868	0	283.6	185.6	-0.7	795	0.00
	Maharashtra	24075	0	504.7	169.1	-4.9	686	0.00
	Goa	624	0	12.7	12.3	-0.3	74	0.00
	DD	369	0	7.7	7.2	0.5	37	0.00
	DNH	848	0	19.6	19.4	0.2	46	0.00
	AMNSIL	821	0	18.3	9.1	0.1	0	0.00
SR	Andhra Pradesh	7574	0	155.0	61.2	0.1	353	0.00
	Telangana	7226	0	150.1	49.7	-1.0	624	0.00
	Karnataka	7937	0	158.1	29.4	-0.5	1173	0.00
	Kerala	3621	0	72.0	32.0	-0.7	351	0.00
	Tamil Nadu	12654	0	265.0	153.6	2.4	1041	0.00
	Puducherry	364	0	7.3	7.3	0.0	54	0.00
ER	Bihar	4273	0	73.8	64.3	1.1	345	0.00
	DVC	3233	0	64.1	-29.3	-2.8	274	0.69
	Jharkhand	1482	0	26.6	21.8	-1.3	121	0.64
	Odisha	5048	0	99.0	39.2	-0.8	409	0.00
	West Bengal	6389	0	115.2	-2.3	0.2	509	0.00
	Sikkim	103	0	1.6	1.5	0.1	52	0.00
NER	Arunachal Pradesh	143	0	2.1	2.1	-0.1	23	0.00
	Assam	1522	0	26.6	19.7	0.4	99	0.00
	Manipur	196	0	2.6	2.7	-0.1	23	0.21
	Meghalaya	375	0	6.5	5.0	-0.1	44	0.00
	Mizoram	118	0	1.6	1.5	-0.3	22	0.00
	Nagaland	142	0	2.3	2.0	0.2	24	0.00
	Tripura	225	0	3.5	2.0	-0.5	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	15.2	1.6	-18.6
Day Peak (MW)	747.0	115.0	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	180.5	-82.5	82.0	-174.2	-5.8	0.0
Actual(MU)	176.5	-75.5	82.3	-180.3	-7.5	-4.5
O/D/U/D(MU)	-3.9	7.0	0.3	-6.1	-1.7	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6310	17265	11832	2030	350	37787	43
State Sector	14136	19908	11853	4150	11	50058	57
Total	20446	37173	23685	6180	361	87844	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	505	1153	414	531	14	2617	74
Lignite	28	5	32	0	0	65	2
Hydro	128	38	116	55	13	350	10
Nuclear	27	32	54	0	0	114	3
Gas, Naptha & Diesel	16	11	9	0	30	66	2
RES (Wind, Solar, Biomass & Others)	92	128	113	4	0	338	10
Total	796	1368	739	590	57	3550	100

Share of RES in total generation (%)	11.57	9.33	15.34	0.75	0.49	9.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.04	14.49	38.41	10.06	23.38	22.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.060

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: 18-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	6.4	-6.4
2	HVDC	PUSAULI B/B	-	0	251	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	13	912	0.0	10.0	-10.0
4	765 kV	SASARAM-FATEHPUR	1	0	624	0.0	8.4	-8.4
5	765 kV	GAYA-BALIA	1	0	385	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	3.0	-3.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	182	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.6	-10.6
9	400 kV	PATNA-BALIA	4	0	875	0.0	14.2	-14.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	437	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	378	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	9	362	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	1	14	58	0.0	0.5	-0.5
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	84.3	-83.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	235	1127	0.0	8.7	-8.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	266	834	0.0	8.5	-8.5
3	765 kV	JHARSUGUDA-DURG	2	0	614	0.0	9.3	-9.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	357	0.0	4.8	-4.8
5	400 kV	RANCHI-SIPAT	2	82	234	0.0	2.3	-2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	44	84	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	127	3	1.6	0.0	1.6
					ER-WR	1.6	34.2	-32.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	407	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	40.7	-40.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3172	0.0	53.0	-53.0
4	400 kV	TALCHER-I/C	2	39	581	0.0	3.5	-3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	102.4	-102.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	37	191	0.0	2.3	-2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	65	240	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	3	53	0.0	0.5	-0.5
					ER-NER	0.0	4.4	-4.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-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	2539	0.0	42.1	-42.1
2	HVDC	VINDHYACHAL B/B	-	226	0	1.6	0.0	1.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1964	0.0	26.8	-26.8
5	765 kV	GWALIOR-PHAGI	2	0	2360	0.0	33.0	-33.0
6	765 kV	JABALPUR-ORAI	2	0	538	0.0	16.6	-16.6
7	765 kV	GWALIOR-ORAI	1	1425	0	21.7	0.0	21.7
8	765 kV	SATNA-ORAI	1	0	932	0.0	17.5	-17.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1391	0	19.8	0.0	19.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	1991	0.0	34.0	-34.0
11	400 kV	ZERDA-KANKROLI	1	323	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	524	23	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	980	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	289	364	2.1	0.9	1.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	144	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	104	0	2.3	0.0	2.3
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	82.9	171.8	-88.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0
2	HVDC	RAIGARH-PUGALUR	2	951	0	16.1	0.0	16.1
3	765 kV	SOLAPUR-RAICHUR	2	1175	2610	0.0	18.9	-18.9
4	765 kV	WARDHA-NIZAMABAD	2	193	2522	0.1	29.0	-28.9
5	400 kV	KOLHAPUR-KUDGI	2	994	69	10.6	0.0	10.5
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	96	1.8	0.0	1.8
					WR-SR	28.5	47.9	-19.4

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 MANGDECHU HEP 4*180MW)	241	0	174	4.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	412	392	395	9.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	69	0	45	1.1
	NER	132kV GELEPHU-SALAKATI	9	2	6	0.2
	NER	132kV MOTANGA-RANGIA	16	4	11	0.3
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	115	14	66	1.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	-502	-677	-16.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-97	-2.3