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: 19th 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 18.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	46580	53631	37068	18744	2530	158553
Peak Shortage (MW)	200	0	0	189	0	389
Energy Met (MU)	936	1265	787	378	45	3411
Hydro Gen (MU)	129	42	122	54	14	361
Wind Gen (MU)	19	75	28	-	-	121
Solar Gen (MU)*	50.73	20.09	35.87	4.72	0.30	112
Energy Shortage (MU)	4.11	1.49	0.00	1.91	0.35	7.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47741	59051	38934	19013	2673	162286
Time Of Maximum Demand Met (From NLDC SCADA)	18:22	11:17	18:23	18:04	17:16	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	0.072	0.12	3.33	14.42	17.87	68.41	13.73

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	5839	0	113.5	53.4	-1.4	205	0.00
	Haryana	5870	38	117.9	91.2	0.5	157	0.56
	Rajasthan	13913	0	241.9	55.1	-3.1	92	0.00
	Delhi	3477	0	62.2	48.9	-1.8	114	0.00
	UP	15580	0	276.6	114.4	-0.8	213	0.10
	Uttarakhand	1833	0	35.5	24.0	0.1	112	0.00
	HP	1728	0	30.6	20.9	-0.7	363	0.00
	J&K(UT) & Ladakh(UT)	2792	250	54.6	48.0	0.9	405	3.45
	Chandigarh	180	0	3.1	3.7	-0.6	17	0.00
WR	Chhattisgarh	3582	0	77.7	25.8	0.2	183	0.00
	Gujarat	16390	671	343.8	191.4	4.3	1018	1.49
	MP	13588	0	275.6	186.4	-3.4	565	0.00
	Maharashtra	24243	0	508.9	165.6	-4.0	622	0.00
	Goa	615	0	12.8	12.3	-0.2	50	0.00
	DD	342	0	7.5	7.2	0.3	57	0.00
	DNH	840	0	19.3	19.3	0.0	64	0.00
	AMNSIL	866	0	19.1	9.5	-0.1	307	0.00
SR	Andhra Pradesh	7183	0	148.8	65.0	0.8	596	0.00
	Telangana	7375	0	150.5	51.9	-0.1	497	0.00
	Karnataka	7746	0	155.6	40.8	1.9	1048	0.00
	Kerala	3555	0	72.3	33.6	-1.4	115	0.00
	Tamil Nadu	12330	0	252.7	142.0	0.0	503	0.00
	Puducherry	364	0	6.8	6.9	-0.1	69	0.00
ER	Bihar	4182	0	71.0	65.2	-0.2	382	0.31
	DVC	3053	0	64.1	-34.5	-2.2	387	1.06
	Jharkhand	1450	0	27.3	21.3	-1.8	130	0.54
	Odisha	5054	0	98.3	38.8	-0.5	443	0.00
	West Bengal	6355	0	116.2	-1.1	0.0	362	0.00
	Sikkim	99	0	1.6	1.7	-0.1	17	0.00
NER	Arunachal Pradesh	126	0	2.3	2.1	-0.1	21	0.00
	Assam	1526	0	25.6	19.0	-0.1	62	0.00
	Manipur	201	0	2.6	2.7	0.0	33	0.35
	Meghalaya	361	0	6.5	5.1	0.0	28	0.00
	Mizoram	116	0	1.6	1.4	-0.2	7	0.00
	Nagaland	144	0	2.4	2.0	0.3	43	0.00
	Tripura	223	0	3.6	2.0	-0.4	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.3	1.5	-18.4
Day Peak (MW)	678.0	129.0	-861.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.7	-78.8	100.3	-185.0	-6.2	0.0
Actual(MU)	165.3	-83.2	109.5	-190.0	-8.1	-6.5
O/D/U/D(MU)	-4.4	-4.4	9.2	-5.0	-1.9	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6310	17865	12332	2030	350	38887	46
State Sector	12970	18704	11071	3803	11	46558	54
Total	19280	36569	23403	5833	361	85445	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	505	1177	393	540	14	2629	75
Lignite	28	7	36	0	0	71	2
Hydro	129	42	122	54	14	361	10
Nuclear	27	32	47	0	0	105	3
Gas, Naptha & Diesel	17	11	9	0	29	67	2
RES (Wind, Solar, Biomass & Others)	89	96	88	5	0	279	8
Total	796	1364	694	599	58	3511	100

Share of RES in total generation (%)	11.24	7.02	12.73	0.79	0.52	7.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.85	12.41	36.98	9.76	24.93	21.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
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: 19-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	501	0.0	11.6	-11.6
2	HVDC	PUSAULI B/B	-	0	251	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	17	747	0.0	8.4	-8.4
4	765 kV	SASARAM-FATEHPUR	1	0	532	0.0	7.8	-7.8
5	765 kV	GAYA-BALIA	1	0	414	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	142	0.0	2.9	-2.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	172	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	624	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	1006	0.0	17.0	-17.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	411	0.0	6.2	-6.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	350	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	22	313	0.0	3.7	-3.7
13	220 kV	PUSAULI-SAHUPURI	1	22	67	0.0	0.6	-0.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.1	-0.1
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	19	0.0	0.1	-0.1
					ER-NR	0.4	90.7	-90.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	570	847	0.0	7.4	-7.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	176	715	0.0	8.4	-8.4
3	765 kV	JHARSUGUDA-DURG	2	0	529	0.0	9.4	-9.4
4	400 kV	JHARSUGUDA-RAIGARH	4	56	235	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	68	211	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	25	65	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	131	0	1.9	0.0	1.9
					ER-WR	1.9	31.3	-29.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	45.5	-45.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3404	0.0	59.0	-59.0
4	400 kV	TALCHER-I/C	2	131	394	0.0	4.6	-4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	113.1	-113.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	219	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	100	158	0.0	0.4	-0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	3	47	0.0	0.4	-0.4
					ER-NER	0.0	3.8	-3.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	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	2017	0.0	26.4	-26.4
2	HVDC	VINDHYACHAL B/B	-	227	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1338	0.0	21.3	-21.3
5	765 kV	GWALIOR-PHAGI	2	0	2019	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	0	730	0.0	22.4	-22.4
7	765 kV	GWALIOR-ORAI	1	942	0	14.3	0.0	14.3
8	765 kV	SATNA-ORAI	1	0	1095	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1461	0	24.7	0.0	24.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	1974	0.0	36.5	-36.5
11	400 kV	ZERDA-KANKROLI	1	359	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	578	0	7.9	0.0	7.9
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	356	171	2.1	0.0	2.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.6
17	220 kV	MEHGAON-AURAIYA	1	148	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	107	0	2.4	0.0	2.4
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	87.4	160.4	-73.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0
2	HVDC	RAIGARH-PUGALUR	2	571	0	12.9	0.0	12.9
3	765 kV	SOLAPUR-RAICHUR	2	24	2791	0.0	27.3	-27.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2759	0.0	36.5	-36.5
5	400 kV	KOLHAPUR-KUDGI	2	881	133	9.2	0.0	9.2
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	104	1.9	0.0	1.9
					WR-SR	24.0	63.7	-39.8

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)	200	0	162	3.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	397	0	378	9.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	55	0	40	1.0
	NER	132kV GELEPHU-SALAKATI	8	0	5	0.1
	NER	132kV MOTANGA-RANGIA	18	5	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	129	17	63	1.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-748	-501	-674	-16.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-95	-2.3