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: 26th 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 25.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25th 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:** **26-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)	46456	55482	37776	18334	2514	160562
Peak Shortage (MW)	1408	115	0	245	0	1768
Energy Met (MU)	963	1275	802	388	45	3473
Hydro Gen (MU)	115	35	96	51	15	312
Wind Gen (MU)	4	17	44	-	-	65
Solar Gen (MU)*	60.56	41.89	76.01	4.75	0.23	183
Energy Shortage (MU)	8.85	0.53	0.00	2.54	0.00	11.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48695	58049	38368	19425	2657	164226
Time Of Maximum Demand Met (From NLDC SCADA)	18:12	10:55	18:26	18:07	17:33	18:33

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	0.049	0.00	1.97	8.55	10.52	75.66	13.82

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	6022	0	118.4	56.4	-0.8	135	1.70
	Haryana	6334	0	123.5	96.9	0.6	190	1.71
	Rajasthan	13502	0	243.6	76.7	1.6	367	1.17
	Delhi	3524	0	62.3	50.7	-1.1	201	0.00
	UP	16119	0	287.3	116.4	0.4	817	0.82
	Uttarakhand	1890	0	36.5	24.5	1.4	228	0.00
	HP	1755	0	31.8	21.7	0.5	236	0.00
	J&K(UT) & Ladakh(UT)	2753	100	56.7	50.1	1.1	574	3.45
	Chandigarh	189	0	3.1	3.4	-0.3	29	0.00
WR	Chhattisgarh	3596	0	78.1	25.3	0.4	248	0.00
	Gujarat	16201	0	352.8	208.9	2.6	761	0.53
	MP	13625	0	283.8	176.6	-1.5	411	0.00
	Maharashtra	22914	0	501.5	164.4	-7.0	505	0.00
	Goa	604	0	12.7	12.4	-0.3	35	0.00
	DD	344	0	7.7	7.4	0.3	56	0.00
	DNH	860	0	19.7	19.7	0.0	59	0.00
	AMNSIL	806	0	18.2	9.3	-0.4	294	0.00
SR	Andhra Pradesh	7547	0	155.6	70.2	-0.5	503	0.00
	Telangana	7439	0	151.4	44.3	-1.1	278	0.00
	Karnataka	7554	0	147.1	23.9	-3.8	553	0.00
	Kerala	3559	0	72.0	35.9	-1.4	181	0.00
	Tamil Nadu	12678	0	268.9	158.6	-1.4	597	0.00
	Puducherry	345	0	7.1	7.4	-0.3	65	0.00
ER	Bihar	4186	0	72.5	61.0	0.4	287	0.00
	DVC	3228	0	65.6	-38.0	-2.2	294	1.09
	Jharkhand	1435	0	25.8	21.8	-1.5	225	1.44
	Odisha	4998	0	102.9	36.9	-1.8	320	0.00
	West Bengal	6704	0	119.4	4.3	-0.6	208	0.00
	Sikkim	117	0	1.9	1.6	0.3	61	0.00
NER	Arunachal Pradesh	129	0	2.4	2.3	-0.1	53	0.00
	Assam	1489	0	24.9	18.4	0.0	84	0.00
	Manipur	218	0	2.9	3.0	-0.1	41	0.00
	Meghalaya	369	0	7.0	5.3	-0.1	23	0.00
	Mizoram	118	0	1.7	1.4	-0.2	18	0.00
	Nagaland	140	0	2.6	2.1	0.3	14	0.00
	Tripura	222	0	3.7	1.7	-0.1	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.4	1.9	-18.0
Day Peak (MW)	583.0	135.0	-841.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.3	-90.8	59.7	-176.6	-6.6	0.0
Actual(MU)	219.7	-86.0	48.2	-179.2	-7.1	-4.4
O/D/U/D(MU)	5.4	4.8	-11.5	-2.6	-0.5	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6920	15445	10862	2930	384	36540	43
State Sector	14950	18989	10971	4108	11	49028	57
Total	21870	34434	21833	7038	395	85568	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	501	1236	417	541	12	2708	76
Lignite	25	15	32	0	0	71	2
Hydro	115	35	96	51	15	312	9
Nuclear	23	33	64	0	0	120	3
Gas, Naptha & Diesel	16	10	15	0	29	71	2
RES (Wind, Solar, Biomass & Others)	85	59	145	5	0	294	8
Total	765	1389	768	596	57	3576	100

Share of RES in total generation (%)	11.08	4.28	18.85	0.79	0.40	8.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.12	9.19	39.66	9.32	27.02	20.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.057

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: 26-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	502	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	251	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	810	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	520	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	565	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	0	143	0.0	2.8	-2.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	171	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	671	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	4	0	1103	0.0	19.5	-19.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	446	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	387	0.0	6.5	-6.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	324	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	1	12	70	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	0.3	0.0	0.3
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	0.3	102.6	-102.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	547	1165	0.0	10.9	-10.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	283	678	0.0	6.3	-6.3
3	765 kV	JHARSUGUDA-DURG	2	45	286	0.0	4.3	-4.3
4	400 kV	JHARSUGUDA-RAIGARH	4	85	273	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	103	221	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	51	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	64	0	1.8	0.0	1.8
					ER-WR	1.8	25.5	-23.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	385	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2888	0.0	48.0	-48.0
4	400 kV	TALCHER-I/C	2	879	331	2.7	0.0	2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	97.5	-97.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	241	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	146	198	0.0	0.9	-0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	6	49	0.0	0.5	-0.5
					ER-NER	0.0	4.9	-4.9
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	2196	0.0	42.5	-42.5
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1812	0.0	24.9	-24.9
5	765 kV	GWALIOR-PHAGI	2	0	2405	0.0	40.8	-40.8
6	765 kV	JABALPUR-ORAI	2	0	963	0.0	31.6	-31.6
7	765 kV	GWALIOR-ORAI	1	783	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1255	0.0	24.2	-24.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1653	0	30.7	0.0	30.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2323	0.0	42.0	-42.0
11	400 kV	ZERDA-KANKROLI	1	318	0	6.0	0.0	6.0
12	400 kV	ZERDA -BHINMAL	1	384	35	6.0	0.0	6.0
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	150	451	0.0	2.5	-2.5
15	220 kV	BHANPURA-RANPUR	1	126	72	1.4	0.3	1.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	121	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.9	0.0	1.9
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	96.7	209.6	-112.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	8	0.0	0.0	0.0
2	HVDC	RAIGARH-PUGALUR	2	1931	603	15.0	0.0	15.0
3	765 kV	SOLAPUR-RAICHUR	2	1546	2052	0.0	5.8	-5.8
4	765 kV	WARDHA-NIZAMABAD	2	168	2319	0.0	25.6	-25.6
5	400 kV	KOLHAPUR-KUDGI	2	1232	0	17.9	0.0	17.9
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	98	1.9	0.0	1.9
					WR-SR	34.8	31.3	3.4

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)	179	0	157	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	343	0	328	7.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	42	0	21	0.5
	NER	132kV GELEPHU-SALAKATI	6	0	3	0.1
	NER	132kV MOTANGA-RANGIA	13	3	9	0.2
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	135	30	79	1.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-739	-490	-660	-15.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-90	-2.2