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: 28th 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 27.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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:** **28-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)	46687	56195	36845	18069	2386	160182
Peak Shortage (MW)	1492	0	0	415	0	1907
Energy Met (MU)	971	1273	785	386	44	3458
Hydro Gen (MU)	118	33	100	50	14	315
Wind Gen (MU)	4	18	43	-	-	65
Solar Gen (MU)*	59.35	40.49	69.34	4.72	0.28	174
Energy Shortage (MU)	8.85	0.00	0.00	3.51	0.00	12.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48987	58808	37641	19060	2571	163333
Time Of Maximum Demand Met (From NLDC SCADA)	10:51	10:51	18:38	17:49	17:22	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	0.030	0.00	0.14	4.22	4.36	75.50	20.14

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	6245	0	119.8	60.7	-0.9	157	2.15
	Haryana	6520	0	125.7	87.9	1.1	185	1.20
	Rajasthan	13783	0	251.7	78.1	0.8	318	1.04
	Delhi	3400	0	60.4	49.0	-1.1	128	0.00
	UP	15760	0	285.9	112.5	-1.0	412	0.52
	Uttarakhand	1946	0	36.7	25.8	0.6	152	0.05
	HP	1743	0	31.3	22.2	0.1	204	0.44
	J&K(UT) & Ladakh(UT)	2679	200	56.7	50.0	-0.7	193	3.45
	Chandigarh	181	0	3.1	3.5	-0.4	22	0.00
WR	Chhattisgarh	3282	0	72.9	23.6	-0.6	272	0.00
	Gujarat	16970	0	362.3	206.7	3.0	730	0.00
	MP	14147	0	286.3	185.4	-2.1	485	0.00
	Maharashtra	22788	0	493.3	152.3	-6.3	442	0.00
	Goa	599	0	12.4	11.8	-0.1	22	0.00
	DD	347	0	7.7	7.4	0.3	43	0.00
	DNH	847	0	19.5	19.4	0.1	55	0.00
	AMNSIL	891	0	18.4	9.3	0.3	315	0.00
SR	Andhra Pradesh	7457	0	153.1	66.0	0.4	685	0.00
	Telangana	7705	0	151.6	47.0	0.1	647	0.00
	Karnataka	7564	0	148.9	22.9	-1.1	684	0.00
	Kerala	3537	0	71.5	34.8	-0.4	457	0.00
	Tamil Nadu	12625	0	252.6	139.3	-1.9	513	0.00
	Puducherry	346	0	6.9	7.2	-0.2	42	0.00
ER	Bihar	4156	0	71.4	60.8	-0.7	226	0.09
	DVC	3160	0	64.9	-36.1	-1.8	270	1.50
	Jharkhand	1418	0	26.7	21.9	-0.6	225	1.92
	Odisha	5185	0	104.6	40.9	0.5	499	0.00
	West Bengal	6321	0	116.1	4.8	-0.7	309	0.00
	Sikkim	118	0	1.8	1.6	0.3	62	0.00
NER	Arunachal Pradesh	132	0	2.3	2.2	-0.1	36	0.00
	Assam	1456	0	24.7	18.1	0.3	121	0.00
	Manipur	215	0	3.0	2.9	0.0	29	0.00
	Meghalaya	346	0	6.9	5.2	0.1	39	0.00
	Mizoram	109	0	1.6	1.5	-0.3	9	0.00
	Nagaland	138	0	2.1	2.0	-0.1	64	0.00
	Tripura	216	0	3.6	1.6	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.9	1.4	-14.3
Day Peak (MW)	627.0	101.0	-847.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.0	-117.5	72.9	-156.7	-6.7	0.0
Actual(MU)	210.0	-117.0	70.4	-157.9	-5.9	-0.3
O/D/U/D(MU)	2.0	0.6	-2.5	-1.2	0.8	-0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6920	14945	11872	3280	384	37400	46
State Sector	13195	17329	10316	3258	11	44108	54
Total	20115	32274	22188	6538	395	81508	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	522	1258	390	508	12	2690	76
Lignite	23	15	18	0	0	56	2
Hydro	118	33	100	50	14	315	9
Nuclear	23	33	70	0	0	126	4
Gas, Naptha & Diesel	16	11	17	0	29	72	2
RES (Wind, Solar, Biomass & Others)	82	60	137	5	0	284	8
Total	785	1409	731	563	55	3542	100

Share of RES in total generation (%)	10.50	4.23	18.73	0.84	0.51	8.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.46	8.93	41.96	9.76	25.59	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
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: 28-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	11.7	-11.7
2	HVDC	PUSAULI B/B	-	0	251	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	726	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	552	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	520	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	0	171	0.0	3.2	-3.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	165	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	1031	0.0	19.1	-19.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	429	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	391	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	339	0.0	4.8	-4.8
13	220 kV	PUSAULI-SAHUPURI	1	3	80	0.0	1.0	-1.0
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	0	0.0	0.0	0.0
					ER-NR	0.4	100.9	-100.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1269	223	10.6	0.0	10.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	171	802	0.0	8.0	-8.0
3	765 kV	JHARSUGUDA-DURG	2	95	117	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	269	54	2.0	0.0	2.0
5	400 kV	RANCHI-SIPAT	2	94	223	0.0	1.8	-1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	27	61	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	151	0	2.1	0.0	2.1
					ER-WR	14.7	10.2	4.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	384	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	41.9	-41.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2977	0.0	49.1	-49.1
4	400 kV	TALCHER-I/C	2	17	472	0.0	4.1	-4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	99.5	-99.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	287	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	135	263	0.0	1.5	-1.5
3	220 kV	ALIPURDUAR-SALAKATI	2	23	50	0.0	0.4	-0.4
					ER-NER	0.0	5.8	-5.8
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	2008	0.0	39.3	-39.3
2	HVDC	VINDHYACHAL B/B	-	449	0	10.7	0.0	10.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1723	0.0	25.5	-25.5
5	765 kV	GWALIOR-PHAGI	2	0	2367	0.0	38.2	-38.2
6	765 kV	JABALPUR-ORAI	2	0	960	0.0	28.7	-28.7
7	765 kV	GWALIOR-ORAI	1	881	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1122	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1643	0	26.7	0.0	26.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2037	0.0	37.1	-37.1
11	400 kV	ZERDA-KANKROLI	1	344	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	360	32	5.3	0.0	5.3
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	141	438	0.2	2.8	-2.5
15	220 kV	BHANPURA-RANPUR	1	145	35	1.6	0.0	1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	83	0	2.0	0.0	2.0
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	90.6	194.7	-104.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	0	10.8	0.0	10.8
2	HVDC	RAIGARH-PUGALUR	2	972	0	23.2	0.0	23.2
3	765 kV	SOLAPUR-RAICHUR	2	1125	2667	0.0	20.4	-20.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2859	0.0	38.2	-38.2
5	400 kV	KOLHAPUR-KUDGI	2	1227	0	14.3	0.0	14.3
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	50.2	58.5	-8.3

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)	233	0	180	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	351	301	338	8.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	4	0	-45	-1.1
	NER	132kV GELEPHU-SALAKATI	11	1	8	0.2
	NER	132kV MOTANGA-RANGIA	28	4	15	0.4
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	101	4	59	1.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-740	-408	-511	-12.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-107	0	-85	-2.1