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: 30th 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 29.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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:** **30-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)	47541	54955	36511	18153	2474	159634
Peak Shortage (MW)	500	0	0	345	0	845
Energy Met (MU)	964	1255	755	374	43	3391
Hydro Gen (MU)	112	36	104	47	12	311
Wind Gen (MU)	21	74	55	-	-	150
Solar Gen (MU)*	57.50	36.64	46.80	4.45	0.28	146
Energy Shortage (MU)	3.75	0.00	0.00	3.64	0.00	7.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49289	59302	37194	18380	2598	162636
Time Of Maximum Demand Met (From NLDC SCADA)	10:24	11:02	18:28	18:08	17:19	18:21

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	0.034	0.00	0.39	2.68	3.08	73.67	23.25

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	6141	0	120.7	62.1	-1.4	127	0.30
	Haryana	6653	0	123.5	86.0	0.2	162	0.00
	Rajasthan	13765	0	251.9	57.4	1.0	426	0.00
	Delhi	3567	0	61.7	50.8	-1.5	177	0.00
	UP	15628	0	280.0	113.6	-1.7	894	0.00
	Uttarakhand	1962	0	36.1	24.7	0.9	152	0.00
	HP	1702	0	30.9	21.4	0.9	296	0.00
	J&K(UT) & Ladakh(UT)	2685	200	56.0	49.9	1.1	282	3.45
	Chandigarh	187	0	3.1	3.6	-0.5	19	0.00
WR	Chhattisgarh	3520	0	74.3	25.9	-0.1	237	0.00
	Gujarat	17076	0	355.5	188.7	1.6	636	0.00
	MP	14357	0	286.7	187.6	-0.1	506	0.00
	Maharashtra	23105	0	480.1	145.8	-1.9	589	0.00
	Goa	574	0	12.0	11.5	-0.1	71	0.00
	DD	334	0	7.2	7.0	0.2	40	0.00
	DNH	836	0	19.0	19.0	0.0	76	0.00
	AMNSIL	890	0	19.9	9.3	0.4	313	0.00
SR	Andhra Pradesh	7054	0	142.3	55.9	-0.1	450	0.00
	Telangana	7653	0	148.1	66.2	0.2	672	0.00
	Karnataka	7989	0	142.9	32.8	-0.1	548	0.00
	Kerala	3646	0	70.7	32.6	-0.5	192	0.00
	Tamil Nadu	12708	0	244.5	124.9	-3.3	428	0.00
	Puducherry	326	0	6.3	6.9	-0.6	44	0.00
ER	Bihar	4127	0	73.5	61.8	-0.2	401	0.00
	DVC	3144	0	64.1	-37.0	-0.7	831	1.38
	Jharkhand	1474	0	27.9	22.5	0.2	151	2.26
	Odisha	4559	0	89.8	32.1	-1.5	553	0.00
	West Bengal	6374	0	117.1	-7.7	1.0	487	0.00
	Sikkim	117	0	1.8	1.6	0.2	63	0.00
NER	Arunachal Pradesh	129	0	2.3	2.1	0.0	44	0.00
	Assam	1436	0	23.8	17.4	0.1	98	0.00
	Manipur	204	0	2.9	3.0	-0.1	21	0.00
	Meghalaya	376	0	6.7	5.5	0.1	48	0.00
	Mizoram	114	0	1.8	1.5	-0.1	24	0.00
	Nagaland	135	0	2.1	2.1	-0.1	14	0.00
	Tripura	223	0	3.6	1.6	-0.1	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.5	1.4	-17.2
Day Peak (MW)	571.0	94.0	-837.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.5	-115.2	84.8	-159.6	-5.5	0.0
Actual(MU)	195.8	-114.6	75.8	-154.5	-5.5	-3.0
O/D/U/D(MU)	0.3	0.6	-9.0	5.2	0.0	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6920	15645	13372	3780	384	40100	47
State Sector	12910	19817	10696	2658	11	46091	53
Total	19830	35462	24068	6438	395	86191	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	519	1181	364	503	12	2579	74
Lignite	24	15	20	0	0	59	2
Hydro	112	36	104	46	12	311	9
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	16	8	25	0	29	77	2
RES (Wind, Solar, Biomass & Others)	98	111	111	4	0	325	9
Total	792	1384	693	554	53	3476	100

Share of RES in total generation (%)	12.38	8.04	15.99	0.80	0.53	9.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.43	13.04	40.99	9.19	23.51	21.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.075

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: 30-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	87	830	0.0	8.2	-8.2
4	765 kV	SASARAM-FATEHPUR	1	0	594	0.0	7.8	-7.8
5	765 kV	GAYA-BALIA	1	0	534	0.0	9.3	-9.3
6	400 kV	PUSAULI-VARANASI	1	0	166	0.0	3.2	-3.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	163	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	683	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	4	0	1041	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	431	0.0	5.6	-5.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	386	0.0	6.0	-6.0
12	400 kV	BIHARSHARIFF-VARANASI	2	37	340	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	1	10	82	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	90.1	-89.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1071	256	5.5	0.0	5.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	858	0.0	9.1	-9.1
3	765 kV	JHARSUGUDA-DURG	2	65	207	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	156	268	0.0	1.4	-1.4
5	400 kV	RANCHI-SIPAT	2	57	279	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	23	97	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	120	10	1.4	0.0	1.4
					ER-WR	6.9	14.4	-7.5
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	32.8	-32.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2862	0.0	47.3	-47.3
4	400 kV	TALCHER-I/C	2	431	631	0.0	1.0	-1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	88.6	-88.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	279	0.0	4.4	-4.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	138	229	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	16	50	0.0	0.5	-0.5
					ER-NER	0.0	6.4	-6.4
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	2281	0.0	30.7	-30.7
2	HVDC	VINDHYACHAL B/B	-	450	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1792	0.0	26.4	-26.4
5	765 kV	GWALIOR-PHAGI	2	0	2352	0.0	35.3	-35.3
6	765 kV	JABALPUR-ORAI	2	0	973	0.0	28.2	-28.2
7	765 kV	GWALIOR-ORAI	1	802	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1138	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1149	0	20.8	0.0	20.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2153	0.0	39.2	-39.2
11	400 kV	ZERDA-KANKROLI	1	278	0	5.2	0.0	5.2
12	400 kV	ZERDA -BHINMAL	1	416	0	6.9	0.0	6.9
13	400 kV	VINDHYACHAL -RIHAND	1	981	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	141	397	0.6	2.0	-1.4
15	220 kV	BHANPURA-RANPUR	1	136	13	1.9	0.0	1.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	144	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	104	0	2.5	0.0	2.5
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	88.8	190.3	-101.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	493	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	576	0	13.8	0.0	13.8
3	765 kV	SOLAPUR-RAICHUR	2	592	2421	0.0	20.2	-20.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2635	0.0	39.6	-39.6
5	400 kV	KOLHAPUR-KUDGI	2	942	0	12.2	0.0	12.2
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	1	97	1.3	0.0	1.3
					WR-SR	39.3	59.8	-20.5

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)	159	0	129	3.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	408	332	342	8.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.0
	NER	132kV GELEPHU-SALAKATI	6	0	3	0.1
	NER	132kV MOTANGA-RANGIA	14	2	7	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	94	48	58	1.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-737	-454	-627	-15.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-100	0	-89	-2.1