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: 2nd 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 01.11.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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:** **02-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)	45386	52678	38450	19731	2606	158851
Peak Shortage (MW)	200	0	0	429	0	629
Energy Met (MU)	908	1213	849	409	46	3425
Hydro Gen (MU)	159	39	137	81	16	433
Wind Gen (MU)	23	22	28	-	-	73
Solar Gen (MU)*	64.44	42.37	59.47	4.68	0.29	171
Energy Shortage (MU)	4.05	0.00	0.00	0.98	0.07	5.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46486	56162	40709	20840	2716	163223
Time Of Maximum Demand Met (From NLDC SCADA)	18:18	11:35	09:40	18:01	17:50	18:36

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	0.033	0.00	0.00	6.70	6.70	81.15	12.15

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	5751	0	114.8	54.6	-0.1	144	0.00
	Haryana	6054	0	119.5	85.5	-0.2	165	0.00
	Rajasthan	12324	0	230.2	59.4	-0.3	381	0.00
	Delhi	3407	0	65.4	54.2	-1.1	159	0.00
	UP	14388	0	259.5	109.2	-0.8	842	0.60
	Uttarakhand	1780	0	34.3	18.6	0.7	130	0.00
	HP	1689	0	31.5	17.0	-0.2	141	0.00
	J&K(UT) & Ladakh(UT)	2546	250	49.9	40.1	1.6	576	3.45
	Chandigarh	169	0	3.1	3.9	-0.9	42	0.00
WR	Chhattisgarh	3802	0	81.3	28.3	-2.2	200	0.00
	Gujarat	16516	0	355.9	224.5	0.6	638	0.00
	MP	11044	0	221.0	158.9	-1.5	608	0.00
	Maharashtra	23633	0	496.8	177.7	-5.0	686	0.00
	Goa	605	0	13.8	10.8	2.3	46	0.00
	DD	330	0	7.4	7.2	0.2	22	0.00
	DNH	840	0	19.2	19.3	-0.1	49	0.00
	AMNSIL	807	0	17.5	8.5	0.2	287	0.00
SR	Andhra Pradesh	7717	0	167.1	60.9	0.5	547	0.00
	Telangana	8353	0	167.9	24.5	-0.6	504	0.00
	Karnataka	8437	0	164.5	44.3	-2.0	519	0.00
	Kerala	3471	0	71.3	34.7	-1.3	285	0.00
	Tamil Nadu	13385	0	270.7	177.7	-3.6	612	0.00
	Puducherry	364	0	7.4	7.6	-0.3	40	0.00
ER	Bihar	4342	0	76.9	68.0	0.9	449	0.81
	DVC	3098	0	65.3	-25.8	-3.1	356	0.00
	Jharkhand	1489	0	25.4	22.4	-2.5	151	0.18
	Odisha	5526	0	113.0	54.9	0.2	326	0.00
	West Bengal	7274	0	126.7	-6.9	-0.8	352	0.00
	Sikkim	101	0	1.6	1.6	0.0	40	0.00
NER	Arunachal Pradesh	130	0	2.1	2.1	0.0	29	0.00
	Assam	1576	0	26.6	19.3	0.0	83	0.00
	Manipur	192	0	2.5	2.5	0.0	35	0.07
	Meghalaya	394	0	6.6	4.6	0.0	40	0.00
	Mizoram	116	0	1.5	1.3	-0.3	31	0.00
	Nagaland	136	0	2.3	2.2	-0.2	15	0.00
	Tripura	244	0	4.2	2.7	-0.4	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	27.0	0.5	-19.9
Day Peak (MW)	1193.0	51.0	-839.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	146.0	-43.0	60.8	-156.9	-6.9	0.0
Actual(MU)	136.6	-29.4	54.0	-160.0	-7.3	-6.0
O/D/U/D(MU)	-9.4	13.7	-6.8	-3.1	-0.5	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6238	16105	9532	1260	580	33714	42
State Sector	15316	18328	8676	3705	11	46036	58
Total	21554	34433	18208	4965	591	79750	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	454	1106	443	506	11	2520	72
Lignite	29	10	36	0	0	75	2
Hydro	159	39	137	81	16	433	12
Nuclear	32	33	69	0	0	134	4
Gas, Naptha & Diesel	16	12	10	0	30	67	2
RES (Wind, Solar, Biomass & Others)	98	64	114	5	0	281	8
Total	788	1264	809	592	58	3510	100

Share of RES in total generation (%)	12.44	5.09	14.11	0.80	0.50	8.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.71	10.80	39.54	14.54	28.64	24.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.054

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: 02-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	750	0.0	12.5	-12.5
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	67	701	0.0	7.3	-7.3
4	765 kV	SASARAM-FATEHPUR	1	0	517	0.0	7.4	-7.4
5	765 kV	GAYA-BALIA	1	0	433	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	162	0.0	3.0	-3.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	158	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	761	0.0	12.1	-12.1
9	400 kV	PATNA-BALIA	4	0	771	0.0	12.9	-12.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	527	0.0	8.3	-8.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	432	0.0	6.9	-6.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	310	0.0	3.0	-3.0
13	220 kV	PUSAULI-SAHUPURI	1	14	79	0.0	0.6	-0.6
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	90.9	-90.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	807	155	6.3	0.0	6.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	108	813	0.0	6.1	-6.1
3	765 kV	JHARSUGUDA-DURG	2	0	294	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	103	306	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	33	239	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	5	98	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	125	0	1.9	0.0	1.9
					ER-WR	8.3	14.6	-6.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	500	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2547	0.0	42.9	-42.9
4	400 kV	TALCHER-I/C	2	0	881	0.0	9.0	-9.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	93.6	-93.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	35	253	0.0	2.5	-2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	32	325	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	91	0.0	1.0	-1.0
					ER-NER	0.0	5.1	-5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	13.5	-13.5
					NER-NR	0.0	13.5	-13.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	168	0.0	7.8	-7.8
2	HVDC	VINDHYACHAL B/B	-	445	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1793	0.0	31.0	-31.0
5	765 kV	GWALIOR-PHAGI	2	0	2291	0.0	39.5	-39.5
6	765 kV	JABALPUR-ORAI	2	0	445	0.0	15.0	-15.0
7	765 kV	GWALIOR-ORAI	1	1296	0	23.6	0.0	23.6
8	765 kV	SATNA-ORAI	1	0	794	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1378	0	27.8	0.0	27.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2020	0.0	41.0	-41.0
11	400 kV	ZERDA-KANKROLI	1	379	0	7.5	0.0	7.5
12	400 kV	ZERDA -BHINMAL	1	619	0	11.3	0.0	11.3
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	200	252	0.1	0.0	0.1
15	220 kV	BHANPURA-RANPUR	1	157	21	1.3	0.0	1.3
16	220 kV	BHANPURA-MORAK	1	0	30	1.8	0.0	1.8
17	220 kV	MEHGAON-AURAIYA	1	101	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	69	0	1.3	0.0	1.3
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	109.3	151.5	-42.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	594	0	10.1	0.0	10.1
2	HVDC	RAIGARH-PUGALUR	2	786	602	2.9	0.8	2.1
3	765 kV	SOLAPUR-RAICHUR	2	1166	1727	0.0	3.5	-3.5
4	765 kV	WARDHA-NIZAMABAD	2	4	2072	0.0	24.6	-24.6
5	400 kV	KOLHAPUR-KUDGI	2	1234	0	21.1	0.0	21.1
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	74	1.4	0.0	1.4
					WR-SR	35.5	28.9	6.6

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)	312	0	293	7.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	643	0	626	15.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	184	0	169	4.1
	NER	132kV GELEPHU-SALAKATI	18	0	14	0.3
	NER	132kV MOTANGA-RANGIA	35	17	23	0.6
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	51	0	21	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-737	-727	-732	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-96	-2.3