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: 02nd November 2022

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 01.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-नवम्बर-2022 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 Nov 2022, 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-2022**

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)	47934	51771	39342	21633	2727	163407
Peak Shortage (MW)	0	0	0	879	0	879
Energy Met (MU)	1027	1213	908	449	50	3647
Hydro Gen (MU)	149	31	154	72	23	429
Wind Gen (MU)	13	34	23	-	-	70
Solar Gen (MU)*	109.47	50.29	63.36	4.92	0.93	229
Energy Shortage (MU)	0.61	0.00	0.00	2.04	0.00	2.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50188	56969	44357	22229	2847	170690
Time Of Maximum Demand Met (From NLDC SCADA)	18:51	10:28	09:47	18:00	17:22	18:31

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	0.044	0.19	1.70	7.67	9.56	79.81	10.64

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	6173	0	127.4	40.4	-0.6	146	0.00
	Haryana	6296	0	131.4	64.8	-0.6	139	0.00
	Rajasthan	13951	0	272.8	91.8	1.8	372	0.26
	Delhi	3663	0	71.3	63.8	-0.8	173	0.00
	UP	15831	0	299.1	78.2	-0.7	372	0.00
	Uttarakhand	1879	0	35.7	22.3	0.3	115	0.00
	HP	1742	0	31.8	17.1	0.0	91	0.00
	J&K(UT) & Ladakh(UT)	2582	0	53.6	47.0	1.4	264	0.35
	Chandigarh	186	0	3.4	3.2	0.2	47	0.00
WR	Chhattisgarh	4056	0	89.3	35.8	0.2	695	0.00
	Gujarat	17838	0	359.7	220.6	-1.8	891	0.00
	MP	11896	0	242.9	142.3	-2.1	305	0.00
	Maharashtra	22027	0	469.6	150.2	1.0	687	0.00
	Goa	619	0	11.3	10.2	0.5	33	0.00
	DNHDDPDCL	1134	0	25.8	25.8	0.0	77	0.00
	AMNSIL	706	0	14.8	8.9	-0.3	245	0.00
SR	Andhra Pradesh	8552	0	179.9	65.4	1.0	771	0.00
	Telangana	9585	0	173.1	22.1	1.3	1122	0.00
	Karnataka	9503	0	174.8	50.6	-0.1	1024	0.00
	Kerala	3858	0	76.8	50.3	0.8	228	0.00
	Tamil Nadu	13947	0	295.0	168.2	-0.2	568	0.00
	Puducherry	355	0	8.2	7.9	-0.5	34	0.00
ER	Bihar	4677	0	88.2	77.4	-0.3	101	0.23
	DVC	3149	0	68.0	-35.7	-0.8	278	0.00
	Jharkhand	1599	0	29.2	19.4	0.7	458	1.81
	Odisha	5498	0	114.2	34.7	-1.5	406	0.00
	West Bengal	7929	0	148.2	10.8	-0.1	420	0.00
	Sikkim	104	0	1.6	1.6	0.0	29	0.00
NER	Arunachal Pradesh	127	0	2.1	2.4	-0.4	9	0.00
	Assam	1671	0	29.5	21.6	-0.3	90	0.00
	Manipur	202	0	2.6	2.7	-0.1	26	0.00
	Meghalaya	363	0	6.5	5.1	-0.1	36	0.00
	Mizoram	115	0	1.7	1.1	-0.2	6	0.00
	Nagaland	133	0	2.0	1.7	0.0	32	0.00
	Tripura	279	0	5.1	4.1	0.4	55	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.7	5.0	-24.9
Day Peak (MW)	698.0	240.0	-1094.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.6	-18.3	44.1	-153.4	-4.1	0.0
Actual(MU)	126.6	-25.8	50.1	-154.9	-6.3	-10.3
O/D/U/D(MU)	-5.1	-7.5	6.0	-1.5	-2.3	-10.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8252	18081	7588	2950	747	37617	51
State Sector	9390	15311	8935	1800	99	35535	49
Total	17642	33392	16523	4750	846	73152	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	626	1096	480	548	14	2765	72
Lignite	34	13	56	0	0	103	3
Hydro	150	31	154	72	23	430	11
Nuclear	26	41	70	0	0	137	4
Gas, Naptha & Diesel	14	10	3	0	24	50	1
RES (Wind, Solar, Biomass & Others)	129	85	128	5	1	348	9
Total	979	1275	891	626	63	3833	100

Share of RES in total generation (%)	13.20	6.63	14.38	0.79	1.48	9.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.12	12.22	39.51	12.35	38.57	23.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.068

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-2022

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	741	0.0	19.0	-19.0
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.2	-8.2
3	765 kV	GAYA-VARANASI	2	147	722	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	0	476	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	503	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	250	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	152	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	746	0.0	12.2	-12.2
9	400 kV	PATNA-BALIA	2	0	297	0.0	4.1	-4.1
10	400 kV	NAUBATPUR-BALIA	2	12	310	0.0	4.2	-4.2
11	400 kV	BIHARSHARIFF-BALIA	2	92	289	0.0	2.5	-2.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	339	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	133	237	0.0	1.4	-1.4
14	220 kV	SAHUPURI-KARAMNASA	1	34	88	0.0	0.7	-0.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	89.8	-89.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	362	220	1.7	0.0	1.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	704	424	7.2	0.0	7.2
3	765 kV	JHARSUGUDA-DURG	2	0	597	0.0	10.0	-10.0
4	400 kV	JHARSUGUDA-RAIGARH	4	123	440	0.0	3.6	-3.6
5	400 kV	RANCHI-SIPAT	2	186	206	0.3	0.0	0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	12	128	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	154	22	1.3	0.0	1.3
					ER-WR	10.5	15.3	-4.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	330	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2573	0.0	44.1	-44.1
4	400 kV	TALCHER-I/C	2	0	347	0.0	6.9	-6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	91.0	-91.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	463	0.0	7.6	-7.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	175	240	0.0	1.5	-1.5
3	220 kV	ALIPURDUAR-SALAKATI	2	1	50	0.0	0.7	-0.7
					ER-NER	0.0	9.8	-9.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	332	0.0	7.7	-7.7
2	HVDC	VINDHYACHAL B/B	-	438	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	1286	0.0	18.1	-18.1
5	765 kV	GWALIOR-PHAGI	2	0	2285	0.0	36.3	-36.3
6	765 kV	JABALPUR-ORAI	2	0	586	0.0	20.7	-20.7
7	765 kV	GWALIOR-ORAI	1	997	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	866	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2387	0	41.8	0.0	41.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	1878	0.0	31.5	-31.5
11	400 kV	ZERDA-KANKROLI	1	377	0	6.9	0.0	6.9
12	400 kV	ZERDA -BHINMAL	1	650	0	9.2	0.0	9.2
13	400 kV	VINDHYACHAL -RIHAND	1	480	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	258	280	0.9	3.0	-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	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	109	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.5	0.0	1.5
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	100.5	137.2	-36.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	693	0	16.8	0.0	16.8
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	996	838	6.4	1.4	5.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2104	0.0	24.2	-24.2
5	400 kV	KOLHAPUR-KUDGI	2	1119	0	20.9	0.0	20.9
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	107	2.1	0.0	2.1
					WR-SR	46.2	40.2	6.0

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)	176	0	158	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	394	0	368	8.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	97	0	76	1.8
	NER	132kV GELEPHU-SALAKATI	12	1	7	0.2
	NER	132kV MOTANGA-RANGIA	31	15	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	240	55	209	5.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-938	-735	-901	-21.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-138	-3.3