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: 14th 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 13.11.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-नवंबर-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 13th November 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:** **14-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)	43503	52869	35785	18431	2446	153034
Peak Shortage (MW)	90	0	0	468	0	558
Energy Met (MU)	976	1324	815	390	45	3551
Hydro Gen (MU)	138	27	75	56	17	312
Wind Gen (MU)	9	36	53	-	-	98
Solar Gen (MU)*	103.19	48.99	76.73	5.08	0.81	235
Energy Shortage (MU)	1.30	0.02	0.00	1.54	0.00	2.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47891	62013	39558	19131	2577	166478
Time Of Maximum Demand Met (From NLDC SCADA)	11:27	11:03	09:46	17:49	17:39	10:57

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	0.025	0.00	0.00	0.58	0.58	77.43	21.99

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	6301	0	113.3	31.2	-0.4	114	0.00
	Haryana	5394	0	110.0	58.3	-0.8	169	0.00
	Rajasthan	14633	0	286.0	105.2	3.1	425	0.62
	Delhi	3364	0	61.1	55.3	-1.9	46	0.00
	UP	15528	0	286.4	64.5	0.4	274	0.00
	Uttarakhand	1810	0	33.1	22.7	0.7	190	0.34
	HP	1639	0	29.4	16.5	-0.5	99	0.00
	J&K(UT) & Ladakh(UT)	2562	90	53.6	47.6	-0.9	135	0.34
	Chandigarh	165	0	3.0	3.1	-0.1	19	0.00
WR	Chhattisgarh	3811	0	86.3	33.2	0.2	207	0.00
	Gujarat	18290	0	383.0	237.6	2.4	569	0.00
	MP	14771	0	293.8	190.5	-5.5	387	0.00
	Maharashtra	23511	0	507.4	163.4	-1.1	722	0.00
	Goa	599	0	11.5	11.4	-0.5	83	0.02
	DNHDDPDCL	1115	0	25.6	25.6	0.0	50	0.00
	AMNSIL	796	0	16.8	10.1	0.5	255	0.00
SR	Andhra Pradesh	8454	0	177.1	72.6	-0.5	584	0.00
	Telangana	8516	0	163.3	46.7	0.4	477	0.00
	Karnataka	9468	0	168.3	54.3	-0.5	571	0.00
	Kerala	3323	0	67.2	47.1	0.9	267	0.00
	Tamil Nadu	10994	0	230.3	126.8	0.2	419	0.00
	Puducherry	333	0	9.2	7.2	1.3	14	0.00
ER	Bihar	4476	0	78.9	66.9	1.7	333	0.17
	DVC	3305	0	70.0	-32.4	-0.1	345	0.00
	Jharkhand	1556	0	29.2	20.6	-0.2	276	1.36
	Odisha	4560	0	95.2	36.5	0.7	911	0.00
	West Bengal	5937	0	115.7	-18.9	-0.9	283	0.00
	Sikkim	88	0	1.4	1.6	-0.2	27	0.00
NER	Arunachal Pradesh	131	0	2.1	2.0	-0.1	28	0.00
	Assam	1485	0	26.2	18.5	0.4	110	0.00
	Manipur	199	0	2.7	2.8	-0.1	26	0.00
	Meghalaya	347	0	6.4	4.7	0.1	38	0.00
	Mizoram	109	0	1.8	1.5	-0.1	6	0.00
	Nagaland	138	0	2.1	1.7	0.0	18	0.00
	Tripura	226	0	3.8	2.5	0.0	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.0	7.5	-23.3
Day Peak (MW)	422.0	318.0	-1033.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	124.3	-11.5	74.0	-184.6	-2.3	0.0
Actual(MU)	113.4	1.4	72.4	-187.8	-2.8	-3.3
O/D/U/D(MU)	-10.9	12.9	-1.6	-3.2	-0.5	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7747	13586	8658	1900	834	32724	46
State Sector	9180	16240	9888	2770	152	38229	54
Total	16927	29825	18546	4670	985	70953	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	609	1186	425	531	4	2755	74
Lignite	30	15	40	0	0	85	2
Hydro	139	27	75	56	17	313	8
Nuclear	26	36	71	0	0	133	4
Gas, Naptha & Diesel	12	2	5	0	31	50	1
RES (Wind, Solar, Biomass & Others)	125	86	170	5	1	388	10
Total	941	1351	787	592	53	3724	100

Share of RES in total generation (%)	13.29	6.38	21.66	0.85	1.52	10.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.84	11.01	40.20	10.24	33.83	22.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.069

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: 14-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	345	0.0	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	0	813	0.0	14.0	-14.0
4	765 kV	SASARAM-FATEHPUR	1	0	581	0.0	10.2	-10.2
5	765 kV	GAYA-BALIA	1	0	500	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	204	0.0	4.0	-4.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	793	0.0	15.3	-15.3
9	400 kV	PATNA-BALIA	2	0	629	0.0	12.9	-12.9
10	400 kV	NAUBATPUR-BALIA	2	0	677	0.0	12.6	-12.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	440	0.0	8.0	-8.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	498	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	355	0.0	6.2	-6.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	120	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	24	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	115.7	-115.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1426	0	20.9	0.0	20.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	191	877	0.0	7.6	-7.6
3	765 kV	JHARSUGUDA-DURG	2	0	364	0.0	6.1	-6.1
4	400 kV	JHARSUGUDA-RAIGARH	4	29	448	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	95	244	0.0	1.8	-1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	106	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	112	18	1.3	0.0	1.3
					ER-WR	22.2	21.0	1.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	44.6	-44.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2564	0.0	45.7	-45.7
4	400 kV	TALCHER-I/C	2	0	625	0.0	11.1	-11.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	102.8	-102.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	318	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	70	452	0.0	7.0	-7.0
3	220 kV	ALIPURDUAR-SALAKATI	2	3	37	0.0	0.5	-0.5
					ER-NER	0.0	12.4	-12.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	15.6	-15.6
					NER-NR	0.0	15.6	-15.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	438	0	6.2	0.0	6.2
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	30.0	0.0	30.0
4	765 kV	GWALIOR-AGRA	2	279	1324	0.0	17.5	-17.5
5	765 kV	GWALIOR-PHAGI	2	0	2036	0.0	37.5	-37.5
6	765 kV	JABALPUR-ORAI	2	0	647	0.0	20.6	-20.6
7	765 kV	GWALIOR-ORAI	1	1044	0	21.2	0.0	21.2
8	765 kV	SATNA-ORAI	1	0	777	0.0	16.0	-16.0
9	765 kV	BANASKANTHA-CHITORGARH	2	2139	0	34.2	0.0	34.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1612	0.0	24.8	-24.8
11	400 kV	ZERDA-KANKROLI	1	332	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	528	87	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	310	282	0.0	0.6	-0.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	123	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	96	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	126.9	119.0	7.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	1352	1046	3.1	0.0	3.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2070	0.0	26.7	-26.7
5	400 kV	KOLHAPUR-KUDGI	2	1316	0	23.4	0.0	23.4
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	120	2.2	0.0	2.2
					WR-SR	35.9	41.3	-5.5

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)	97	0	73	1.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	313	303	305	7.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.6
	NER	132kV GELEPHU-SALAKATI	-8	0	-4	-0.1
	NER	132kV MOTANGA-RANGIA	-22	-12	-16	-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	318	209	313	7.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-923	-725	-872	-20.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-98	-2.4