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: 01st 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 31.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-अक्टूबर-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 31st Oct 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: 01-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)	46812	50804	42008	20817	2614	163055
Peak Shortage (MW)	0	0	0	668	0	668
Energy Met (MU)	1021	1198	931	431	47	3629
Hydro Gen (MU)	151	37	141	73	27	428
Wind Gen (MU)	5	51	30	-	-	85
Solar Gen (MU)*	110.05	49.57	114.23	5.02	0.90	280
Energy Shortage (MU)	3.41	0.00	0.00	1.96	0.00	5.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49501	55923	45404	21475	2827	170731
Time Of Maximum Demand Met (From NLDC SCADA)	18:37	10:51	11:50	17:43	17:31	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	0.025	0.00	0.13	3.01	3.14	81.63	15.23

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	6213	0	123.0	55.8	-0.7	112	0.00
	Haryana	6281	0	126.6	65.9	-1.1	110	0.00
	Rajasthan	13908	0	268.0	92.3	1.5	342	2.36
	Delhi	3556	0	69.2	62.2	-1.6	141	0.00
	UP	15526	0	314.1	89.8	-1.0	484	0.00
	Uttarakhand	1808	0	34.8	21.1	0.3	214	0.08
	HP	1750	0	31.4	15.5	-0.2	119	0.17
	J&K(UT) & Ladakh(UT)	2605	0	51.1	45.0	0.9	287	0.80
	Chandigarh	179	0	3.4	3.3	0.1	36	0.00
WR	Chhattisgarh	4045	0	89.2	31.2	-0.3	220	0.00
	Gujarat	17300	0	354.5	221.0	1.6	547	0.00
	MP	11701	0	237.9	125.9	-2.4	433	0.00
	Maharashtra	21818	0	464.4	150.1	1.2	721	0.00
	Goa	642	0	10.9	10.3	0.0	41	0.00
	DNHDDPDCL	1133	0	25.6	25.6	0.0	60	0.00
	AMNSIL	724	0	15.3	8.9	0.2	309	0.00
SR	Andhra Pradesh	9728	0	192.4	69.1	-0.2	606	0.00
	Telangana	9654	0	177.5	29.5	-0.1	412	0.00
	Karnataka	9872	0	187.2	59.1	0.4	704	0.00
	Kerala	3717	0	75.7	49.9	0.1	202	0.00
	Tamil Nadu	14401	0	290.5	157.8	0.7	582	0.00
	Puducherry	380	0	8.1	7.8	-0.4	56	0.00
ER	Bihar	4568	172	84.6	74.6	-1.1	360	0.15
	DVC	3288	0	69.0	-31.0	0.4	309	0.00
	Jharkhand	1539	0	28.7	19.0	0.3	258	1.81
	Odisha	5208	0	107.9	32.9	-0.3	558	0.00
	West Bengal	7442	0	139.7	6.5	-1.1	335	0.00
	Sikkim	104	0	1.6	1.3	0.2	34	0.00
NER	Arunachal Pradesh	129	0	2.1	2.3	-0.3	13	0.00
	Assam	1649	0	27.6	20.1	0.0	146	0.00
	Manipur	205	0	2.6	2.5	0.1	23	0.00
	Meghalaya	357	0	6.4	3.7	0.2	79	0.00
	Mizoram	114	0	1.7	1.0	-0.2	51	0.00
	Nagaland	141	0	2.1	1.7	0.0	21	0.00
	Tripura	296	0	5.0	4.0	0.4	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.4	6.2	-24.2
Day Peak (MW)	738.0	296.0	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	139.0	-30.4	42.6	-142.4	-8.8	0.0
Actual(MU)	136.1	-32.1	33.7	-135.7	-7.5	-5.5
O/D/U/D(MU)	-3.0	-1.6	-8.9	6.7	1.3	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8042	17861	7088	4160	672	37822	52
State Sector	8200	15349	9015	2100	99	34762	48
Total	16242	33209	16103	6260	771	72584	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	618	1061	474	514	10	2677	70
Lignite	31	13	53	0	0	96	3
Hydro	152	37	141	73	27	429	11
Nuclear	26	41	70	0	0	137	4
Gas, Naptha & Diesel	15	4	5	0	24	48	1
RES (Wind, Solar, Biomass & Others)	122	101	198	5	1	427	11
Total	963	1255	941	592	61	3813	100

Share of RES in total generation (%)	12.65	8.01	21.06	0.85	1.47	11.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.08	14.19	43.50	13.14	44.75	26.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.066

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: 01-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	18.5	-18.5
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	347	617	0.0	4.4	-4.4
4	765 kV	SASARAM-FATEHPUR	1	42	458	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	491	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	248	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	162	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	821	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	2	41	342	0.0	3.9	-3.9
10	400 kV	NAUBATPUR-BALIA	2	66	375	0.0	4.0	-4.0
11	400 kV	BIHARSHARIFF-BALIA	2	137	332	0.0	1.8	-1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	374	0.0	5.2	-5.2
13	400 kV	BIHARSHARIFF-VARANASI	2	182	219	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNASA	1	28	72	0.0	0.9	-0.9
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	81.9	-81.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	380	260	0.3	0.0	0.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	759	276	8.3	0.0	8.3
3	765 kV	JHARSUGUDA-DURG	2	0	486	0.0	8.4	-8.4
4	400 kV	JHARSUGUDA-RAIGARH	4	130	384	0.0	2.4	-2.4
5	400 kV	RANCHI-SIPAT	2	198	136	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	32	101	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	167	0	2.4	0.0	2.4
					ER-WR	12.2	11.7	0.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	9.7	-9.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2413	0.0	37.1	-37.1
4	400 kV	TALCHER-I/C	2	0	377	0.0	7.0	-7.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	86.3	-86.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	564	0.0	7.2	-7.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	241	321	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	2	63	0.0	0.7	-0.7
					ER-NER	0.0	8.6	-8.6
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	1456	0.0	22.2	-22.2
5	765 kV	GWALIOR-PHAGI	2	0	2295	0.0	35.4	-35.4
6	765 kV	JABALPUR-ORAI	2	0	516	0.0	20.9	-20.9
7	765 kV	GWALIOR-ORAI	1	1031	0	16.2	0.0	16.2
8	765 kV	SATNA-ORAI	1	0	880	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2385	0	38.6	0.0	38.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2234	0.0	40.6	-40.6
11	400 kV	ZERDA-KANKROLI	1	371	0	6.0	0.0	6.0
12	400 kV	ZERDA -BHINMAL	1	571	0	7.0	0.0	7.0
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	18.4	0.0	18.4
14	400 kV	RAPP-SHUJALPUR	2	249	402	1.0	3.5	-2.5
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	94	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	70	0	1.1	0.0	1.1
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	101.2	150.8	-49.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	693	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	0	615	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	1984	818	16.4	1.9	14.5
4	765 kV	WARDHA-NIZAMABAD	2	127	1699	0.0	18.2	-18.1
5	400 kV	KOLHAPUR-KUDGI	2	1297	0	22.2	0.0	22.2
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	0	116	2.1	0.0	2.1
					WR-SR	52.7	34.8	17.9

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)	197	0	169	4.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	419	0	381	9.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	107	0	80	1.9
	NER	132kV GELEPHU-SALAKATI	-13	-2	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-25	-14	-21	-0.5
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	296	56	256	6.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-925	-733	-874	-21.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-136	-3.3