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: 22st October 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 21.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21th 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:** **22-Oct-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)	50750	53041	41368	22997	2958	171114
Peak Shortage (MW)	120	0	0	526	0	646
Energy Met (MU)	1084	1233	899	484	55	3754
Hydro Gen (MU)	174	83	148	104	21	531
Wind Gen (MU)	12	59	19	-	-	90
Solar Gen (MU)*	110.01	48.17	94.35	5.05	0.95	259
Energy Shortage (MU)	0.76	0.00	0.00	1.80	0.00	2.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53467	56341	41590	23352	3118	176882
Time Of Maximum Demand Met (From NLDC SCADA)	19:00	18:41	18:39	18:26	17:37	18:54

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	0.031	0.00	0.00	3.39	3.39	76.18	20.43

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	6929	0	145.7	62.9	-0.7	218	0.00
	Haryana	6886	0	148.2	76.8	0.6	402	0.00
	Rajasthan	12402	0	255.7	95.6	0.7	286	0.00
	Delhi	4043	0	81.6	72.9	0.2	290	0.00
	UP	17574	0	328.6	94.4	-0.5	455	0.00
	Uttarakhand	1895	0	37.8	20.4	0.1	82	0.23
	HP	1637	17	30.9	13.3	-0.4	69	0.02
	J&K(UT) & Ladakh(UT)	2528	0	51.4	40.9	2.2	655	0.51
	Chandigarh	204	0	3.8	3.8	0.0	39	0.00
WR	Chhattisgarh	4258	0	94.9	40.7	-0.7	166	0.00
	Gujarat	19150	0	405.8	246.3	-4.7	832	0.00
	MP	10128	0	209.0	90.1	0.0	645	0.00
	Maharashtra	21616	0	467.6	181.6	-1.6	856	0.00
	Goa	632	0	12.2	13.4	-1.4	43	0.00
	DNHDDPDCL	1243	0	28.1	28.2	-0.1	49	0.00
	AMNSIL	690	0	15.0	8.8	-0.2	260	0.00
SR	Andhra Pradesh	8225	0	181.1	70.0	0.6	569	0.00
	Telangana	8983	0	175.2	6.2	0.4	487	0.00
	Karnataka	8310	0	166.8	48.2	-1.2	584	0.00
	Kerala	3657	0	74.6	46.6	0.3	231	0.00
	Tamil Nadu	14259	0	292.3	167.3	0.1	471	0.00
	Puducherry	392	0	8.6	8.4	-0.4	59	0.00
ER	Bihar	5445	0	101.6	94.5	-1.8	145	0.16
	DVC	3308	0	71.6	-31.3	-0.2	297	0.00
	Jharkhand	1491	0	30.8	19.8	-0.1	259	1.64
	Odisha	5481	0	113.4	38.6	-1.2	372	0.00
	West Bengal	8427	0	164.9	24.2	-0.3	342	0.00
	Sikkim	96	0	1.6	1.5	0.1	33	0.00
NER	Arunachal Pradesh	131	0	2.3	2.3	-0.3	21	0.00
	Assam	1928	0	34.1	26.2	0.1	105	0.00
	Manipur	201	0	2.7	2.5	0.2	34	0.00
	Meghalaya	343	0	6.1	3.3	0.1	40	0.00
	Mizoram	115	0	1.8	0.7	-0.1	14	0.00
	Nagaland	150	0	2.4	1.9	0.0	23	0.00
	Tripura	302	0	5.3	4.5	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	20.7	8.6	-25.9
Day Peak (MW)	1056.0	368.0	-1105.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.0	-25.4	28.5	-138.5	-4.6	0.0
Actual(MU)	155.1	-37.6	22.7	-137.5	-3.2	-0.4
O/D/U/D(MU)	15.1	-12.1	-5.8	1.0	1.4	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6672	17441	6938	1795	342	33188	49
State Sector	8170	16749	7225	1650	78	33871	51
Total	14842	34189	14163	3445	420	67059	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	641	1050	484	545	12	2732	69
Lignite	26	14	44	0	0	84	2
Hydro	176	83	148	104	21	532	14
Nuclear	31	38	70	0	0	139	4
Gas, Naptha & Diesel	12	2	7	0	30	50	1
RES (Wind, Solar, Biomass & Others)	127	108	160	5	1	402	10
Total	1012	1296	913	654	64	3940	100

Share of RES in total generation (%)	12.55	8.36	17.56	0.77	1.48	10.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.95	17.74	41.47	16.67	34.66	27.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.006
Based on State Max Demands	1.035

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: 22-Oct-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	851	0.0	17.2	-17.2
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.5	-8.5
3	765 kV	GAYA-VARANASI	2	480	659	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	14	654	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	476	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	222	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	211	0.0	4.3	-4.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	941	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	2	0	480	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	15	505	0.0	6.5	-6.5
11	400 kV	BIHARSHARIFF-BALIA	2	139	297	0.0	2.6	-2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	512	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	235	276	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	55	110	0.0	0.5	-0.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	21	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	94.0	-93.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	581	324	0.6	0.0	0.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	888	366	7.5	0.0	7.5
3	765 kV	JHARSUGUDA-DURG	2	0	505	0.0	7.5	-7.5
4	400 kV	JHARSUGUDA-RAIGARH	4	53	664	0.0	7.4	-7.4
5	400 kV	RANCHI-SIPAT	2	229	164	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	42	93	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	185	0	2.2	0.0	2.2
					ER-WR	11.5	15.6	-4.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	33.6	-33.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2300	0.0	33.1	-33.1
4	400 kV	TALCHER-I/C	2	696	0	9.8	0.0	9.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	79.1	-79.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	445	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	68	532	0.0	4.6	-4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	65	0.0	0.9	-0.9
					ER-NER	0.0	11.6	-11.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.0	-16.0
					NER-NR	0.0	16.0	-16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1409	0.0	23.3	-23.3
2	HVDC	VINDHYACHAL B/B	-	441	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	1532	0.0	25.7	-25.7
5	765 kV	GWALIOR-PHAGI	2	0	2230	0.0	33.1	-33.1
6	765 kV	JABALPUR-ORAI	2	0	517	0.0	17.0	-17.0
7	765 kV	GWALIOR-ORAI	1	965	0	17.1	0.0	17.1
8	765 kV	SATNA-ORAI	1	0	874	0.0	18.1	-18.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1894	0	36.1	0.0	36.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2219	0.0	32.8	-32.8
11	400 kV	ZERDA-KANKROLI	1	329	0	6.0	0.0	6.0
12	400 kV	ZERDA -BHINMAL	1	545	0	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	169	462	0.3	5.3	-5.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	85	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	61	4	0.9	0.0	0.9
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	102.0	156.1	-54.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	15.4	-15.4
3	765 kV	SOLAPUR-RAICHUR	2	2065	533	19.7	0.5	19.2
4	765 kV	WARDHA-NIZAMABAD	2	540	1288	1.3	8.8	-7.5
5	400 kV	KOLHAPUR-KUDGI	2	1401	0	22.1	0.0	22.1
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	1	117	1.4	0.0	1.4
					WR-SR	44.4	32.0	12.5

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)	285	0	258	6.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	599	0	533	12.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	132	0	113	2.7
	NER	132kV GELEPHU-SALAKATI	-18	0	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-46	-23	-35	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-36	0	-2	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	404	282	358	8.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-945	-936	-938	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-139	-3.3