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: 21st 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 20.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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:** **21-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)	51118	55303	41988	23142	2952	174503
Peak Shortage (MW)	5	0	0	548	0	553
Energy Met (MU)	1078	1247	903	490	55	3774
Hydro Gen (MU)	168	95	159	112	22	556
Wind Gen (MU)	20	24	24	-	-	68
Solar Gen (MU)*	113.60	48.15	96.83	5.13	0.92	265
Energy Shortage (MU)	1.56	0.00	0.00	2.26	0.00	3.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52778	57856	42417	23409	3121	178601
Time Of Maximum Demand Met (From NLDC SCADA)	19:13	18:31	18:36	18:20	17:49	18:47

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	0.019	0.00	0.00	0.10	0.10	81.98	17.91

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	7081	0	147.9	67.3	-1.1	84	0.00
	Haryana	7002	0	148.5	78.5	0.1	198	0.00
	Rajasthan	12220	0	256.9	94.3	1.7	348	0.59
	Delhi	4047	0	80.7	72.6	-0.3	166	0.00
	UP	17907	0	326.7	99.2	1.6	674	0.10
	Uttarakhand	1924	0	38.3	20.2	0.3	126	0.00
	HP	1721	0	31.6	13.7	-0.1	55	0.00
	J&K(UT) & Ladakh(UT)	2466	0	44.1	36.5	-1.0	358	0.87
	Chandigarh	207	0	3.8	3.6	0.2	29	0.00
WR	Chhattisgarh	4311	0	96.3	42.1	-0.8	176	0.00
	Gujarat	20061	0	418.6	258.5	3.1	638	0.00
	MP	10160	0	205.7	83.9	0.0	576	0.00
	Maharashtra	22122	0	472.0	179.7	-0.7	772	0.00
	Goa	655	0	12.5	13.4	-1.1	49	0.00
	DNHDDPDCL	1243	0	28.0	28.0	0.0	67	0.00
	AMNSIL	654	0	14.3	7.2	0.8	323	0.00
SR	Andhra Pradesh	8092	0	178.3	73.5	-0.1	476	0.00
	Telangana	8469	0	170.3	3.4	0.8	397	0.00
	Karnataka	8390	0	171.9	52.2	-1.5	549	0.00
	Kerala	3676	0	75.0	44.8	0.3	186	0.00
	Tamil Nadu	14448	0	298.1	167.3	-0.6	454	0.00
	Puducherry	400	0	9.1	8.6	-0.3	23	0.00
ER	Bihar	5471	88	102.6	95.5	-1.3	143	0.09
	DVC	3352	0	71.5	-31.7	-1.2	372	0.00
	Jharkhand	1456	0	29.2	20.1	-1.9	269	2.18
	Odisha	5586	0	118.1	36.8	-0.2	388	0.00
	West Bengal	8363	0	167.3	26.8	-0.9	280	0.00
	Sikkim	105	0	1.6	1.5	0.1	37	0.00
NER	Arunachal Pradesh	127	0	2.3	2.3	-0.2	28	0.00
	Assam	1931	0	34.8	26.8	0.6	108	0.00
	Manipur	202	0	2.6	2.6	0.1	29	0.00
	Meghalaya	348	0	6.4	3.3	0.0	48	0.00
	Mizoram	108	0	1.8	0.7	-0.1	8	0.00
	Nagaland	146	0	2.4	1.9	0.0	23	0.00
	Tripura	298	0	5.3	4.8	0.2	98	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	22.3	9.2	-26.0
Day Peak (MW)	1229.0	338.0	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.5	-35.9	29.2	-136.3	-4.4	0.0
Actual(MU)	151.1	-35.3	24.1	-140.4	-2.4	-3.0
O/D/U/D(MU)	3.7	0.6	-5.1	-4.1	2.0	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6672	16431	7358	2595	342	33398	49
State Sector	9655	15974	7645	1860	78	35211	51
Total	16327	32404	15003	4455	420	68609	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	631	1089	469	544	12	2745	69
Lignite	22	16	48	0	0	86	2
Hydro	169	95	159	112	22	557	14
Nuclear	31	36	68	0	0	134	3
Gas, Naptha & Diesel	14	4	7	0	29	55	1
RES (Wind, Solar, Biomass & Others)	141	73	166	5	1	386	10
Total	1009	1312	917	661	64	3963	100

Share of RES in total generation (%)	13.94	5.56	18.14	0.78	1.43	9.74
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.80	15.50	42.88	17.72	35.09	27.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.005
Based on State Max Demands	1.034

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: 21-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	21.0	-21.0
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.7	-8.7
3	765 kV	GAYA-VARANASI	2	549	613	0.0	2.8	-2.8
4	765 kV	SASARAM-FATEHPUR	1	33	592	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	477	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	215	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	215	0.0	4.3	-4.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	912	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	2	0	435	0.0	6.1	-6.1
10	400 kV	NAUBATPUR-BALIA	2	11	458	0.0	6.3	-6.3
11	400 kV	BIHARSHARIFF-BALIA	2	121	254	0.0	2.2	-2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	493	0.0	8.0	-8.0
13	400 kV	BIHARSHARIFF-VARANASI	2	224	259	0.0	1.1	-1.1
14	220 kV	SAHUPURI-KARAMNASA	1	57	103	0.0	0.8	-0.8
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	22	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	96.0	-95.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	689	24	7.9	0.0	7.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	976	462	7.7	0.0	7.7
3	765 kV	JHARSUGUDA-DURG	2	0	694	0.0	9.9	-9.9
4	400 kV	JHARSUGUDA-RAIGARH	4	101	555	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	250	187	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	55	85	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	188	0	2.3	0.0	2.3
					ER-WR	18.6	16.9	1.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	1988	0.0	32.0	-32.0
4	400 kV	TALCHER-I/C	2	245	553	3.4	0.0	3.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	84.1	-84.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	436	0.0	6.7	-6.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	103	459	0.0	5.2	-5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	68	0.0	1.0	-1.0
					ER-NER	0.0	12.9	-12.9
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	995	0.0	16.5	-16.5
2	HVDC	VINDHYACHAL B/B	-	439	0	10.0	0.0	10.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1334	0.0	25.5	-25.5
5	765 kV	GWALIOR-PHAGI	2	0	2350	0.0	35.4	-35.4
6	765 kV	JABALPUR-ORAI	2	0	519	0.0	18.8	-18.8
7	765 kV	GWALIOR-ORAI	1	1021	0	17.0	0.0	17.0
8	765 kV	SATNA-ORAI	1	0	920	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2309	0	42.1	0.0	42.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2296	0.0	36.3	-36.3
11	400 kV	ZERDA-KANKROLI	1	401	0	7.2	0.0	7.2
12	400 kV	ZERDA -BHINMAL	1	685	0	9.0	0.0	9.0
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	187	436	0.0	5.2	-5.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	90	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	66	2	1.0	0.0	1.0
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	108.7	157.6	-48.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.5	-7.5
2	HVDC	RAIGARH-PUGALUR	2	0	604	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	2156	0	20.5	0.0	20.5
4	765 kV	WARDHA-NIZAMABAD	2	617	1085	0.0	6.8	-6.8
5	400 kV	KOLHAPUR-KUDGI	2	1347	0	22.0	0.0	22.0
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	114	1.7	0.0	1.7
					WR-SR	44.2	28.9	15.2

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)	276	0	276	6.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	578	0	578	13.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	128	0	127	3.1
	NER	132kV GELEPHU-SALAKATI	-25	-11	-18	-0.4
	NER	132kV MOTANGA-RANGIA	-41	-27	-36	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-41	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	379	302	379	9.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-938	-938	-938	-22.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-146	-3.5