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: 24th 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 23.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	45093	47709	35447	22781	2733	153763
Peak Shortage (MW)	0	0	0	125	0	125
Energy Met (MU)	1011	1110	816	482	51	3470
Hydro Gen (MU)	176	51	143	95	20	485
Wind Gen (MU)	3	38	39	-	-	80
Solar Gen (MU)*	111.85	53.53	116.44	6.11	0.50	288
Energy Shortage (MU)	0.10	0.00	0.00	0.19	0.00	0.29
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47294	49865	36499	23512	2828	158845
Time Of Maximum Demand Met (From NLDC SCADA)	18:39	18:36	09:30	18:03	17:48	18:42

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	0.024	0.00	0.00	3.10	3.10	79.93	16.97

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	6609	0	133.2	61.7	-0.7	95	0.00
	Haryana	5952	0	122.8	64.0	-2.1	152	0.00
	Rajasthan	12240	0	244.3	86.9	0.7	295	0.00
	Delhi	3279	0	67.7	60.2	-1.1	107	0.00
	UP	16043	0	327.0	108.4	-1.0	249	0.00
	Uttarakhand	1640	0	32.8	15.3	-0.1	73	0.00
	HP	1450	0	26.9	10.3	-0.7	76	0.00
	J&K(UT) & Ladakh(UT)	2598	0	53.4	45.7	-0.4	137	0.10
	Chandigarh	173	0	3.1	3.3	-0.2	18	0.00
WR	Chhattisgarh	4132	0	92.6	38.9	-0.2	142	0.00
	Gujarat	15848	0	343.1	217.1	0.7	807	0.00
	MP	9881	0	204.1	98.1	-3.1	328	0.00
	Maharashtra	19438	0	418.7	137.4	-0.6	752	0.00
	Goa	558	0	10.9	11.7	-0.9	21	0.00
	DNHDDPDCL	1121	0	24.8	24.6	0.2	128	0.00
	AMNSIL	703	0	15.4	9.1	0.1	257	0.00
SR	Andhra Pradesh	8377	0	177.5	63.0	-0.9	482	0.00
	Telangana	8519	0	167.1	-1.0	0.8	545	0.00
	Karnataka	7222	0	145.1	27.5	-2.6	645	0.00
	Kerala	3409	0	69.5	41.3	0.3	210	0.00
	Tamil Nadu	11062	0	248.8	147.7	-0.8	408	0.00
	Puducherry	331	0	7.7	7.5	-0.5	39	0.00
ER	Bihar	5377	0	99.8	91.7	-2.6	144	0.07
	DVC	3321	0	71.6	-22.9	0.2	303	0.00
	Jharkhand	1660	0	31.6	20.4	-0.3	147	0.13
	Odisha	5807	0	124.5	48.3	-1.6	289	0.00
	West Bengal	7752	0	153.8	15.1	-0.3	348	0.00
	Sikkim	76	0	1.1	1.1	0.0	34	0.00
NER	Arunachal Pradesh	122	0	2.2	2.1	-0.1	18	0.00
	Assam	1692	0	30.8	24.5	-0.1	130	0.00
	Manipur	183	0	2.6	2.6	0.0	19	0.00
	Meghalaya	350	0	6.7	4.1	0.0	51	0.00
	Mizoram	96	0	1.6	0.7	-0.3	3	0.00
	Nagaland	142	0	2.3	1.9	0.0	20	0.00
	Tripura	289	0	5.2	4.7	-0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.7	8.9	-25.8
Day Peak (MW)	1063.0	414.0	-1088.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	146.8	-14.8	-4.0	-124.0	-4.1	0.0
Actual(MU)	147.8	-10.6	-17.1	-121.8	-2.2	-3.9
O/D/U/D(MU)	1.0	4.2	-13.1	2.2	1.8	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8512	20851	8858	1540	309	40069	51
State Sector	8520	17306	10255	2810	78	38969	49
Total	17032	38157	19113	4350	387	79038	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	568	944	398	530	11	2452	67
Lignite	28	14	54	0	0	96	3
Hydro	178	51	143	95	20	487	13
Nuclear	31	41	66	0	0	137	4
Gas, Naptha & Diesel	12	2	6	0	30	50	1
RES (Wind, Solar, Biomass & Others)	122	92	206	6	1	427	12
Total	939	1145	873	631	61	3648	100

Share of RES in total generation (%)	12.97	8.07	23.57	0.97	0.82	11.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.21	16.09	47.47	16.00	33.56	28.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.007
Based on State Max Demands	1.054

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: 24-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	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	329	669	0.0	1.7	-1.7
4	765 kV	SASARAM-FATEHPUR	1	96	467	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	502	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	216	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	211	0.0	4.0	-4.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1060	0.0	14.1	-14.1
9	400 kV	PATNA-BALIA	2	0	532	0.0	6.2	-6.2
10	400 kV	NAUBATPUR-BALIA	2	0	566	0.0	6.1	-6.1
11	400 kV	BIHARSHARIFF-BALIA	2	64	371	0.0	2.7	-2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	578	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	129	305	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNASA	1	7	71	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	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	33	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	88.8	-88.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	203	438	0.0	1.6	-1.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1163	368	12.0	0.0	12.0
3	765 kV	JHARSUGUDA-DURG	2	16	525	0.0	6.6	-6.6
4	400 kV	JHARSUGUDA-RAIGARH	4	93	581	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	294	179	1.9	0.0	1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	30	116	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	163	14	2.3	0.0	2.3
					ER-WR	16.2	13.5	2.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	291	552	0.0	3.2	-3.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	31.3	-31.3
3	765 kV	ANGUL-SRIKAKULAM	2	171	2626	0.0	32.6	-32.6
4	400 kV	TALCHER-I/C	2	707	187	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	67.1	-67.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	551	0.0	9.3	-9.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	96	371	0.0	4.8	-4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	65	0.0	1.2	-1.2
					ER-NER	0.0	15.3	-15.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	742	0.0	17.8	-17.8
					NER-NR	0.0	17.8	-17.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	706	0.0	16.2	-16.2
2	HVDC	VINDHYACHAL B/B	-	443	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	1663	0.0	28.6	-28.6
5	765 kV	GWALIOR-PHAGI	2	0	2235	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	0	662	0.0	21.0	-21.0
7	765 kV	GWALIOR-ORAI	1	1016	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	922	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2115	0	42.0	0.0	42.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2212	0.0	37.7	-37.7
11	400 kV	ZERDA-KANKROLI	1	336	0	6.5	0.0	6.5
12	400 kV	ZERDA -BHINMAL	1	529	0	8.1	0.0	8.1
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	20.0	0.0	20.0
14	400 kV	RAPP-SHUJALPUR	2	156	447	0.4	4.8	-4.4
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	69	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	45	8	0.8	0.0	0.8
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	106.8	158.6	-51.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	21.6	0.0	21.6
2	HVDC	RAIGARH-PUGALUR	2	0	997	0.0	14.8	-14.8
3	765 kV	SOLAPUR-RAICHUR	2	2895	695	24.0	1.1	22.9
4	765 kV	WARDHA-NIZAMABAD	2	1151	1463	4.6	13.5	-8.9
5	400 kV	KOLHAPUR-KUDGI	2	1484	0	21.2	0.0	21.2
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	102	2.2	0.0	2.2
					WR-SR	73.5	29.4	44.1

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)	245	0	209	5.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	593	0	498	12.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	205	0	111	2.7
	NER	132kV GELEPHU-SALAKATI	-20	-6	-15	-0.4
	NER	132kV MOTANGA-RANGIA	-33	-19	-26	-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	414	322	372	8.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-925	0	-921	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-153	-3.7