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: 18th 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 17.10.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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:** **18-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)	50498	54329	41067	22860	3019	171773
Peak Shortage (MW)	994	0	0	437	0	1431
Energy Met (MU)	1068	1219	870	498	55	3711
Hydro Gen (MU)	188	95	157	120	24	584
Wind Gen (MU)	2	35	18	-	-	56
Solar Gen (MU)*	118.08	51.60	91.25	4.78	0.83	267
Energy Shortage (MU)	5.26	0.00	0.00	2.70	0.00	7.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51494	57263	42208	23187	3138	174277
Time Of Maximum Demand Met (From NLDC SCADA)	19:26	18:31	18:29	17:53	17:48	18:41

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	0.041	0.00	1.10	9.35	10.45	78.38	11.17

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	7928	0	159.2	87.5	-1.5	175	0.00
	Haryana	7001	0	146.4	77.6	0.2	181	0.00
	Rajasthan	11788	0	247.0	86.0	2.2	464	2.21
	Delhi	4003	0	79.0	78.3	-1.2	169	0.00
	UP	16950	0	315.7	92.2	2.7	1110	1.55
	Uttarakhand	1983	0	38.1	18.3	0.9	225	0.23
	HP	1701	0	30.9	10.8	-0.6	62	0.00
	J&K(UT) & Ladakh(UT)	2556	0	48.2	37.5	2.2	392	1.27
	Chandigarh	210	0	3.9	3.5	0.3	36	0.00
WR	Chhattisgarh	4234	0	97.2	44.5	-1.0	214	0.00
	Gujarat	19263	0	405.9	244.9	-1.9	577	0.00
	MP	9911	0	199.2	98.6	0.0	372	0.00
	Maharashtra	21664	0	465.0	168.2	-1.6	681	0.00
	Goa	638	0	12.2	12.7	-0.6	35	0.00
	DNHDDPDCL	1238	0	27.7	27.5	0.2	67	0.00
	AMNSIL	579	0	12.2	7.0	-0.4	209	0.00
SR	Andhra Pradesh	8189	0	173.2	79.0	2.2	623	0.00
	Telangana	8202	0	161.7	2.3	-0.8	569	0.00
	Karnataka	7998	0	160.5	46.4	-0.3	799	0.00
	Kerala	3701	0	75.5	47.1	-0.2	161	0.00
	Tamil Nadu	14558	0	290.2	173.8	1.6	677	0.00
	Puducherry	394	0	8.9	8.2	0.0	66	0.00
ER	Bihar	5541	0	105.1	94.8	0.3	349	0.45
	DVC	3363	0	72.4	-28.5	-0.3	284	0.00
	Jharkhand	1480	0	31.0	20.9	-0.5	290	2.25
	Odisha	5741	0	122.8	40.7	-1.1	389	0.00
	West Bengal	8443	0	165.3	32.5	-0.6	303	0.00
	Sikkim	106	0	1.6	1.4	0.1	52	0.00
NER	Arunachal Pradesh	131	0	2.2	2.1	-0.1	52	0.00
	Assam	1948	0	35.0	27.5	0.2	109	0.00
	Manipur	188	0	2.6	2.6	0.0	41	0.00
	Meghalaya	347	0	6.0	2.2	0.2	62	0.00
	Mizoram	104	0	1.5	0.6	-0.3	56	0.00
	Nagaland	152	0	2.3	2.0	-0.1	28	0.00
	Tripura	311	0	5.6	5.1	0.4	61	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.9	7.9	-26.0
Day Peak (MW)	1458.0	302.0	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	154.0	-39.7	45.7	-152.7	-7.2	0.0
Actual(MU)	149.8	-42.9	53.4	-160.1	-5.1	-4.9
O/D/U/D(MU)	-4.1	-3.2	7.7	-7.4	2.2	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6672	17541	7398	1270	309	33189	48
State Sector	8625	16694	9025	1260	99	35702	52
Total	15297	34234	16423	2530	408	68891	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	612	1047	442	570	13	2684	69
Lignite	25	16	34	0	0	75	2
Hydro	189	95	157	120	24	585	15
Nuclear	31	36	61	0	0	127	3
Gas, Naptha & Diesel	8	5	6	0	30	47	1
RES (Wind, Solar, Biomass & Others)	125	88	152	5	1	371	10
Total	989	1286	852	695	67	3889	100

Share of RES in total generation (%)	12.67	6.86	17.89	0.68	1.23	9.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.89	16.99	43.39	17.99	37.34	27.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.047

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: 18-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	701	0.0	16.8	-16.8
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.5	-8.5
3	765 kV	GAYA-VARANASI	2	391	691	0.0	3.6	-3.6
4	765 kV	SASARAM-FATEHPUR	1	0	627	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	0	479	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	219	0.0	4.0	-4.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1025	0.0	14.9	-14.9
9	400 kV	PATNA-BALIA	2	0	459	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	0	489	0.0	7.7	-7.7
11	400 kV	BIHARSHARIFF-BALIA	2	4	377	0.0	4.8	-4.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	596	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	176	285	0.0	1.1	-1.1
14	220 kV	SAHUPURI-KARAMNASA	1	43	90	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	49	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	98.3	-97.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	301	402	0.0	1.8	-1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	703	628	3.9	0.0	3.9
3	765 kV	JHARSUGUDA-DURG	2	0	589	0.0	9.6	-9.6
4	400 kV	JHARSUGUDA-RAIGARH	4	5	670	0.0	7.8	-7.8
5	400 kV	RANCHI-SIPAT	2	137	268	0.0	0.5	-0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	36	101	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	190	0	2.0	0.0	2.0
					ER-WR	5.9	20.4	-14.5
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	1633	0.0	31.8	-31.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2682	0.0	41.9	-41.9
4	400 kV	TALCHER-I/C	2	611	277	10.2	0.0	10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	86.1	-86.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	357	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	93	432	0.0	4.6	-4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	65	0.0	1.0	-1.0
					ER-NER	0.0	10.5	-10.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	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	1005	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	226	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1344	0.0	20.5	-20.5
5	765 kV	GWALIOR-PHAGI	2	0	2350	0.0	33.7	-33.7
6	765 kV	JABALPUR-ORAI	2	0	481	0.0	16.9	-16.9
7	765 kV	GWALIOR-ORAI	1	1074	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	953	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2373	0	41.5	0.0	41.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2039	0.0	30.7	-30.7
11	400 kV	ZERDA-KANKROLI	1	408	0	7.1	0.0	7.1
12	400 kV	ZERDA -BHINMAL	1	579	0	8.2	0.0	8.2
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	310	352	1.2	3.0	-1.9
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	107	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	82	3	1.3	0.0	1.3
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	103.3	150.1	-46.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	1491	1153	9.5	3.6	6.0
4	765 kV	WARDHA-NIZAMABAD	2	422	1517	0.9	14.2	-13.3
5	400 kV	KOLHAPUR-KUDGI	2	1080	0	16.6	0.0	16.6
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	101	2.1	0.0	2.1
					WR-SR	29.1	39.6	-10.6

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)	373	0	324	7.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	923	0	701	16.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	183	158	158	3.8
	NER	132kV GELEPHU-SALAKATI	25	9	19	0.5
	NER	132kV MOTANGA-RANGIA	50	30	43	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	375	332	333	8.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-925	-930	-22.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-153	-3.7