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: 19th Oct 2021

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 18.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-अक्टूबर-2021 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 18th October 2021, 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:** **19-Oct-2021**

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)	46729	52449	41623	19818	2962	163581
Peak Shortage (MW)	200	1735	0	125	0	2060
Energy Met (MU)	960	1177	916	427	56	3536
Hydro Gen (MU)	221	32	154	102	20	529
Wind Gen (MU)	8	92	129	-	-	229
Solar Gen (MU)*	50.55	39.01	99.70	4.13	0.28	194
Energy Shortage (MU)	6.73	6.37	0.00	1.36	0.00	14.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47732	58089	44508	19893	3064	165686
Time Of Maximum Demand Met (From NLDC SCADA)	18:50	21:50	12:53	18:44	18:22	18:49

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	0.043	0.00	1.60	7.06	8.66	70.05	21.29

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	7041	0	145.4	81.2	-1.0	126	0.00
	Haryana	6216	0	124.7	89.4	-0.8	204	2.64
	Rajasthan	10386	0	216.1	70.5	0.0	282	0.00
	Delhi	3694	0	75.4	62.4	-1.8	98	0.00
	UP	14775	0	283.8	130.0	-8.0	96	0.64
	Uttarakhand	1634	0	33.5	17.3	-1.6	205	0.00
	HP	1601	0	30.2	10.1	-1.3	349	0.00
	J&K(UT) & Ladakh(UT)	2533	200	47.5	36.2	0.5	323	3.45
	Chandigarh	192	0	3.7	4.6	-0.9	3	0.00
WR	Chhattisgarh	4153	0	94.8	39.4	-0.9	332	0.00
	Gujarat	16717	0	368.6	192.9	1.2	822	6.37
	MP	9108	0	190.5	127.8	-3.4	384	0.00
	Maharashtra	21471	0	464.2	173.8	-3.4	684	0.00
	Goa	639	0	13.7	13.0	0.4	47	0.00
	DD	337	0	7.6	7.3	0.3	73	0.00
	DNH	862	0	19.8	19.8	0.0	43	0.00
	AMNSIL	794	0	17.3	8.9	-0.5	294	0.00
SR	Andhra Pradesh	9178	0	191.8	56.2	0.4	759	0.00
	Telangana	8459	0	176.9	49.6	-1.0	633	0.00
	Karnataka	8814	0	171.9	14.4	0.4	906	0.00
	Kerala	3535	0	70.5	33.4	-1.2	196	0.00
	Tamil Nadu	14506	0	296.8	112.1	-3.1	461	0.00
	Puducherry	397	0	8.4	8.6	-0.2	29	0.00
ER	Bihar	5455	0	95.4	92.5	-0.9	570	1.16
	DVC	2951	50	63.4	-28.3	0.2	357	0.14
	Jharkhand	1352	0	25.2	21.7	-2.3	152	0.07
	Odisha	5397	0	112.6	43.1	-0.8	434	0.00
	West Bengal	6529	0	129.5	25.4	-1.7	268	0.00
	Sikkim	91	0	1.4	1.5	-0.1	41	0.00
NER	Arunachal Pradesh	139	0	2.4	2.4	-0.1	24	0.00
	Assam	1912	0	36.9	30.5	0.4	126	0.00
	Manipur	185	0	2.5	2.6	-0.1	31	0.00
	Meghalaya	347	0	5.9	3.1	-0.1	28	0.00
	Mizoram	110	0	1.5	1.4	-0.3	4	0.00
	Nagaland	150	0	2.3	2.3	-0.3	22	0.00
	Tripura	263	0	4.6	4.1	-0.7	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.7	1.2	-20.3
Day Peak (MW)	1468.0	82.0	-856.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	184.6	-60.5	-29.2	-98.4	3.5	0.0
Actual(MU)	156.1	-42.4	-23.8	-95.7	2.2	-3.6
O/D/U/D(MU)	-28.5	18.2	5.4	2.6	-1.2	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6378	15818	9052	1510	580	33337	44
State Sector	10950	17712	9230	4925	11	42827	56
Total	17328	33529	18282	6435	591	76164	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	470	1011	443	440	10	2374	65
Lignite	24	8	31	0	0	62	2
Hydro	221	32	154	102	20	529	15
Nuclear	27	33	63	0	0	123	3
Gas, Naptha & Diesel	17	21	9	0	28	76	2
RES (Wind, Solar, Biomass & Others)	72	132	254	4	0	462	13
Total	831	1236	954	546	59	3626	100

Share of RES in total generation (%)	8.64	10.67	26.58	0.75	0.47	12.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.52	15.87	49.32	19.37	34.60	30.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.038

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: 19-Oct-2021

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	1001	0.0	24.1	-24.1
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	429	290	2.1	0.0	2.1
4	765 kV	SASARAM-FATEHPUR	1	198	189	0.0	0.8	-0.8
5	765 kV	GAYA-BALIA	1	0	248	0.0	3.9	-3.9
6	400 kV	PUSAULI-VARANASI	1	0	173	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	133	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	15	490	0.0	5.7	-5.7
9	400 kV	PATNA-BALIA	4	159	340	0.0	1.8	-1.8
10	400 kV	BIHARSHARIFF-BALIA	2	190	48	1.9	0.0	1.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	281	0.0	3.2	-3.2
12	400 kV	BIHARSHARIFF-VARANASI	2	155	66	0.9	0.0	0.9
13	220 kV	PUSAULI-SAHUPURI	1	32	61	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	5.5	51.7	-46.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	574	656	0.0	2.8	-2.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	889	404	7.0	0.0	7.0
3	765 kV	JHARSUGUDA-DURG	2	274	109	2.2	0.0	2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	120	483	0.0	3.6	-3.6
5	400 kV	RANCHI-SIPAT	2	250	152	2.1	0.0	2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	163	0	2.4	0.0	2.4
					ER-WR	13.7	8.6	5.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	451	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1342	0.0	25.2	-25.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2958	0.0	38.1	-38.1
4	400 kV	TALCHER-I/C	2	736	601	2.0	0.0	2.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	73.3	-73.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	416	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	417	0.0	5.1	-5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	116	0.0	1.6	-1.6
					ER-NER	0.0	13.1	-13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1716	0.0	26.6	-26.6
2	HVDC	VINDHYACHAL B/B	-	452	0	11.2	0.0	11.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	470	0.0	11.6	-11.6
4	765 kV	GWALIOR-AGRA	2	0	1730	0.0	27.6	-27.6
5	765 kV	GWALIOR-PHAGI	2	0	1765	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	567	0.0	21.3	-21.3
7	765 kV	GWALIOR-ORAI	1	826	0	14.6	0.0	14.6
8	765 kV	SATNA-ORAI	1	0	870	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1457	0	19.4	0.0	19.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2489	0.0	46.1	-46.1
11	400 kV	ZERDA-KANKROLI	1	354	0	5.2	0.0	5.2
12	400 kV	ZERDA -BHINMAL	1	455	0	6.2	0.0	6.2
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	64	249	0.0	2.6	-2.5
15	220 kV	BHANPURA-RANPUR	1	42	36	0.1	0.3	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.0	0.7
17	220 kV	MEHGAON-AURAIYA	1	82	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	62	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	80.7	187.5	-106.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	20.0	0.0	20.0
2	HVDC	RAIGARH-PUGALUR	2	2150	0	34.0	0.0	34.0
3	765 kV	SOLAPUR-RAICHUR	2	2267	1922	12.4	0.0	12.4
4	765 kV	WARDHA-NIZAMABAD	2	152	2512	0.1	24.7	-24.7
5	400 kV	KOLHAPUR-KUDGI	2	1429	0	26.0	0.0	26.0
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	79	1.6	0.0	1.6
					WR-SR	93.9	24.7	69.2

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)	472	0	414	9.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	689	0	642	15.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	235	0	206	5.0
	NER	132kV GELEPHU-SALAKATI	25	13	19	0.5
	NER	132kV MOTANGA-RANGIA	47	29	39	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	141	15	55	1.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-721	-719	-721	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-125	-3.0