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: 23rd 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 22.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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: 23-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)	48295	51626	43056	21286	2777	167040
Peak Shortage (MW)	700	2174	0	434	0	3308
Energy Met (MU)	992	1229	978	439	50	3688
Hydro Gen (MU)	201	51	159	131	22	563
Wind Gen (MU)	48	49	16	-	-	113
Solar Gen (MU)*	66.38	45.63	91.85	4.70	0.23	209
Energy Shortage (MU)	8.99	41.89	0.00	2.19	0.00	53.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49523	52608	45680	21383	2858	170722
Time Of Maximum Demand Met (From NLDC SCADA)	18:34	18:45	12:01	19:17	18:02	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	0.052	0.12	2.08	9.80	12.00	72.36	15.63

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	6631	0	140.4	72.5	-0.7	160	1.65
	Haryana	7033	0	141.5	95.7	0.6	227	2.98
	Rajasthan	11126	0	227.2	24.5	-3.6	262	0.00
	Delhi	3794	0	74.2	62.7	-1.3	192	0.00
	UP	15898	0	288.7	111.0	-2.0	282	0.91
	Uttarakhand	1778	0	36.7	18.6	0.2	192	0.00
	HP	1666	0	32.6	15.4	0.1	259	0.00
	J&K(UT) & Ladakh(UT)	2471	200	47.0	37.7	-0.1	144	3.45
	Chandigarh	195	0	3.6	3.9	-0.2	18	0.00
WR	Chhattisgarh	4089	0	90.4	32.5	-0.5	150	0.00
	Gujarat	17391	75	406.9	209.8	7.8	985	41.81
	MP	9533	0	196.4	124.3	-3.0	565	0.00
	Maharashtra	21464	0	475.5	169.3	1.1	769	0.00
	Goa	615	0	14.2	11.2	2.3	78	0.08
	DD	349	0	7.8	7.4	0.4	79	0.00
	DNH	863	0	19.8	19.9	-0.1	43	0.00
	AMNSIL	798	0	17.5	9.4	-0.2	290	0.00
SR	Andhra Pradesh	9552	0	199.3	96.6	0.3	571	0.00
	Telangana	9746	0	197.5	41.2	-0.2	876	0.00
	Karnataka	9496	0	183.9	58.6	-0.6	538	0.00
	Kerala	3758	0	74.8	35.8	-0.7	151	0.00
	Tamil Nadu	14596	0	313.7	171.0	2.2	716	0.00
	Puducherry	422	0	8.9	9.0	-0.1	32	0.00
ER	Bihar	4882	380	90.5	83.1	0.0	354	0.69
	DVC	3054	0	66.4	-22.5	0.3	280	0.33
	Jharkhand	1453	81	26.2	21.0	-2.0	120	1.17
	Odisha	5648	0	115.1	42.3	-0.4	263	0.00
	West Bengal	7426	0	139.9	27.6	-1.8	304	0.00
	Sikkim	95	0	1.4	1.7	-0.2	16	0.00
NER	Arunachal Pradesh	137	0	2.2	2.1	0.0	78	0.00
	Assam	1804	0	30.8	23.9	-0.6	142	0.00
	Manipur	176	0	2.5	2.5	0.0	34	0.00
	Meghalaya	334	0	6.1	1.3	0.1	43	0.00
	Mizoram	111	0	1.6	1.1	-0.1	8	0.00
	Nagaland	125	0	2.3	1.5	0.5	31	0.00
	Tripura	261	0	4.4	3.5	-0.4	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.7	0.8	-20.3
Day Peak (MW)	1919.0	61.0	-861.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	125.7	-96.8	108.5	-133.7	-3.7	0.0
Actual(MU)	79.9	-71.5	119.4	-131.8	-0.7	-4.7
O/D/U/D(MU)	-45.8	25.3	10.9	1.9	3.1	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5021	14848	9702	2420	580	32570	42
State Sector	11360	19339	9350	5315	11	45374	58
Total	16381	34186	19052	7735	591	77944	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	522	1110	463	456	11	2562	68
Lignite	21	8	44	0	0	74	2
Hydro	201	51	159	131	22	563	15
Nuclear	30	33	64	0	0	127	3
Gas, Naptha & Diesel	28	19	9	0	23	78	2
RES (Wind, Solar, Biomass & Others)	126	95	132	5	0	358	10
Total	929	1316	871	591	56	3763	100

Share of RES in total generation (%)	13.60	7.24	15.14	0.80	0.41	9.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.48	13.59	40.70	22.90	39.52	27.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
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: 23-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	500	0.0	9.8	-9.8
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	172	333	0.0	0.9	-0.9
4	765 kV	SASARAM-FATEHPUR	1	0	365	0.0	4.2	-4.2
5	765 kV	GAYA-BALIA	1	59	205	0.0	2.9	-2.9
6	400 kV	PUSAULI-VARANASI	1	0	189	0.0	3.7	-3.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	141	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	582	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	4	23	370	0.0	4.4	-4.4
10	400 kV	BIHARSHARIFF-BALIA	2	64	247	0.0	2.7	-2.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	298	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	86	160	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	24	61	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	26	0.0	0.1	-0.1
					ER-NR	0.3	54.8	-54.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	874	41	8.5	0.0	8.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	433	620	0.0	1.7	-1.7
3	765 kV	JHARSUGUDA-DURG	2	14	255	0.0	3.0	-3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	355	0.0	6.1	-6.1
5	400 kV	RANCHI-SIPAT	2	120	176	0.0	0.5	-0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	113	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	182	0	3.0	0.0	3.0
					ER-WR	11.5	12.9	-1.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	444	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1947	0.0	38.2	-38.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2862	0.0	52.3	-52.3
4	400 kV	TALCHER-I/C	2	0	827	0.0	8.0	-8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	100.4	-100.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	47	296	0.0	3.3	-3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	462	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	117	0.0	1.7	-1.7
					ER-NER	0.0	10.7	-10.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	12.6	-12.6
					NER-NR	0.0	12.6	-12.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	709	0.0	12.3	-12.3
2	HVDC	VINDHYACHAL B/B	-	229	0	5.0	0.0	5.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1249	0.0	16.1	-16.1
5	765 kV	GWALIOR-PHAGI	2	0	1397	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	2	0	339	0.0	10.5	-10.5
7	765 kV	GWALIOR-ORAI	1	836	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1008	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1458	0	25.8	0.0	25.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	1893	0.0	35.1	-35.1
11	400 kV	ZERDA-KANKROLI	1	409	0	8.3	0.0	8.3
12	400 kV	ZERDA -BHINMAL	1	692	0	14.2	0.0	14.2
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	278	0	4.0	0.0	4.0
15	220 kV	BHANPURA-RANPUR	1	82	0	1.2	0.0	1.2
16	220 kV	BHANPURA-MORAK	1	0	30	2.2	0.0	2.2
17	220 kV	MEHGAON-AURAIYA	1	123	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.9	0.0	1.9
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	100.9	122.9	-22.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	454	0.0	11.0	-11.0
3	765 kV	SOLAPUR-RAICHUR	2	911	2228	0.0	16.2	-16.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2170	0.0	29.5	-29.5
5	400 kV	KOLHAPUR-KUDGI	2	1220	0	16.7	0.0	16.7
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	80	1.5	0.0	1.5
					WR-SR	18.2	68.9	-50.7

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)	528	0	480	11.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1050	1026	1033	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	270	0	253	6.1
	NER	132kV GELEPHU-SALAKATI	32	18	25	0.6
	NER	132kV MOTANGA-RANGIA	39	14	30	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-32	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	93	0	33	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-726	-729	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-115	-2.8