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 2020

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 22.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अक्टूबर-2020 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 2020, 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-2020**

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)	48315	50040	37540	21322	2619	159836
Peak Shortage (MW)	510	0	0	0	297	807
Energy Met (MU)	1040	1162	802	456	49	3509
Hydro Gen (MU)	149	34	114	90	20	407
Wind Gen (MU)	8	19	90	-	-	117
Solar Gen (MU)*	38.27	28.13	74.18	4.34	0.06	145
Energy Shortage (MU)	0.0	0.0	0.0	0.0	2.2	2.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48922	50633	37732	21544	2721	161104
Time Of Maximum Demand Met (From NLDC SCADA)	19:13	18:33	18:32	19:58	17:30	18:36

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	0.018	0.00	0.00	0.54	0.54	85.62	13.84

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	6400	0	131.6	98.1	-0.2	154	0.0
	Haryana	6859	0	148.5	126.8	0.7	322	0.0
	Rajasthan	11617	0	242.2	85.7	1.6	394	0.0
	Delhi	3791	0	75.9	58.3	0.1	186	0.0
	UP	16906	0	324.9	126.5	-0.7	281	0.0
	Uttarakhand	1751	0	37.0	23.5	1.7	159	0.0
	HP	1462	0	29.5	17.0	0.4	165	0.0
	J&K(UT) & Ladakh(UT)	2510	0	47.4	34.4	3.7	636	0.0
	Chandigarh	189	0	3.4	3.4	0.0	18	0.0
WR	Chhattisgarh	3740	0	84.1	35.2	-0.7	218	0.0
	Gujarat	16259	0	359.7	74.0	2.6	408	0.0
	MP	11243	0	245.7	148.9	-1.6	524	0.0
	Maharashtra	18922	0	419.3	128.6	-1.4	595	0.0
	Goa	492	0	10.6	10.1	-0.1	88	0.0
	DD	349	0	7.8	7.6	0.3	52	0.0
	DNH	761	0	16.7	16.8	-0.1	34	0.0
	AMNSIL	814	0	17.7	1.2	0.4	236	0.0
SR	Andhra Pradesh	7442	0	154.0	73.2	-0.2	717	0.0
	Telangana	6495	0	139.4	43.5	-0.1	354	0.0
	Karnataka	7284	0	146.2	53.3	-0.3	580	0.0
	Kerala	3367	0	67.6	38.8	-0.2	199	0.0
	Tamil Nadu	13439	0	287.4	145.4	-3.8	356	0.0
	Puducherry	372	0	7.6	8.0	-0.4	15	0.0
ER	Bihar	5845	0	109.7	107.0	-1.6	170	0.0
	DVC	3276	0	65.6	-50.2	-0.2	260	0.0
	Jharkhand	1503	0	29.4	23.1	-2.0	345	0.0
	Odisha	4744	0	95.0	13.7	-0.4	380	0.0
	West Bengal	7694	0	155.0	40.9	0.3	160	0.0
	Sikkim	91	0	1.3	1.4	-0.1	19	0.0
NER	Arunachal Pradesh	120	1	2.1	2.2	-0.1	13	0.0
	Assam	1693	254	30.3	29.2	-1.7	112	2.1
	Manipur	188	2	2.6	2.6	0.0	27	0.0
	Meghalaya	336	0	5.8	1.6	-0.7	45	0.0
	Mizoram	102	1	1.6	1.0	0.4	12	0.0
	Nagaland	144	2	2.4	2.3	-0.1	38	0.0
	Tripura	227	11	4.3	4.1	-0.6	20	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	27.9	-1.0	-24.9
Day Peak (MW)	1207.0	-216.0	-1061.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	313.6	-277.5	62.6	-99.1	0.4	0.0
Actual(MU)	325.8	-267.9	47.2	-105.9	-1.8	-2.7
O/D/U/D(MU)	12.3	9.6	-15.5	-6.8	-2.2	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6370	16255	10152	1300	275	34352
State Sector	13664	13456	15746	5395	11	48272
Total	20034	29711	25898	6695	286	82623

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	457	1239	351	502	9	2558
Lignite	20	13	20	0	0	54
Hydro	149	34	114	90	20	407
Nuclear	22	21	68	0	0	111
Gas, Naptha & Diesel	25	90	14	0	27	157
RES (Wind, Solar, Biomass & Others)	56	48	197	4	0	305
Total	729	1445	764	596	57	3590

Share of RES in total generation (%)	7.63	3.31	25.77	0.72	0.11	8.48
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.08	7.11	49.54	15.81	35.17	22.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.003
Based on State Max Demands	1.045

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-2020

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	750	0.0	17.2	-17.2
2	HVDC	PUSAULI B/B	-	0	297	0.0	6.8	-6.8
3	765 kV	GAYA-VARANASI	2	0	746	0.0	9.6	-9.6
4	765 kV	SASARAM-FATEHPUR	1	138	334	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	572	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	260	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	58	122	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	3	631	0.0	6.7	-6.7
9	400 kV	PATNA-BALIA	4	0	948	0.0	16.3	-16.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	477	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	234	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	204	197	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	1	0	109	0.0	0.6	-0.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	1.3	88.6	-87.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	543	754	0.0	6.0	-6.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1133	0	15.5	0.0	15.5
3	765 kV	JHARSUGUDA-DURG	2	22	142	0.0	1.2	-1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	901	0	16.1	0.0	16.1
5	400 kV	RANCHI-SIPAT	2	369	0	5.8	0.0	5.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	101	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	127	0	1.5	0.0	1.5
					ER-WR	38.9	8.4	30.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	373	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2514	0.0	38.0	-38.0
4	400 kV	TALCHER-I/C	2	250	147	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	86.2	-86.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	344	0.0	5.2	-5.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	8	356	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	103	0.0	1.6	-1.6
					ER-NER	0.0	11.9	-11.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.8	-14.8
					NER-NR	0.0	14.8	-14.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	50.1	-50.1
2	HVDC	VINDHYACHAL B/B	-	447	400	7.7	0.9	6.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	41.4	-41.4
4	765 kV	GWALIOR-AGRA	2	0	2671	0.0	51.6	-51.6
5	765 kV	PHAGI-GWALIOR	2	0	1501	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	2	0	1106	0.0	43.2	-43.2
7	765 kV	GWALIOR-ORAI	1	546	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1557	0.0	31.6	-31.6
9	765 kV	CHITORGARH-BANASKANTHA	2	0	915	0.0	11.9	-11.9
10	400 kV	ZERDA-KANKROLI	1	38	153	0.0	1.5	-1.5
11	400 kV	ZERDA -BHINMAL	1	56	313	0.0	3.2	-3.2
12	400 kV	VINDHYACHAL -RIHAND	1	977	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	457	0.0	7.4	-7.4
14	220 kV	BHANPURA-RANPUR	1	0	115	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.8	-0.8
16	220 kV	MEHGAON-AURAIYA	1	90	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	46	20	0.9	0.0	0.9
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	40.8	271.6	-230.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.5	-7.5
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	0.2	-0.2
3	765 kV	SOLAPUR-RAICHUR	2	1531	1717	1.4	0.0	1.4
4	765 kV	WARDHA-NIZAMABAD	2	416	1874	0.0	13.4	-13.4
5	400 kV	KOLHAPUR-KUDGI	2	915	0	12.8	0.0	12.8
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	1	63	0.5	0.0	0.4
					WR-SR	14.6	21.1	-6.5

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	339	314	320	7.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	524	469	519	12.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	243	197	243	6.1
	NER	132KV-GEYLEGPHU - SALAKATI	-33	-16	-26	-0.6
	NER	132kV Motanga-Rangia	-66	-39	-41	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-80	-1	-17	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-136	-4	-23	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-937	-922	-931	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	62	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-52	-1.3