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: 21st 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 20.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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: 21-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)	48869	50636	36568	22994	2968	162035
Peak Shortage (MW)	540	18	0	0	8	566
Energy Met (MU)	1055	1166	802	485	54	3563
Hydro Gen (MU)	159	33	125	95	18	430
Wind Gen (MU)	4	21	64	-	-	89
Solar Gen (MU)*	33.97	23.89	74.80	4.60	0.11	137
Energy Shortage (MU)	0.2	0.0	0.0	0.0	0.0	0.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49375	51031	37668	23329	3035	163348
Time Of Maximum Demand Met (From NLDC SCADA)	10:53	18:32	18:33	18:30	18:18	18:38

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	0.032	0.00	0.41	6.96	7.36	81.45	11.19

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	6917	0	142.8	105.3	-1.3	261	0.0
	Haryana	7093	0	152.5	125.0	-0.5	278	0.0
	Rajasthan	11617	0	242.3	90.8	1.6	332	0.0
	Delhi	3726	0	74.6	59.0	-0.9	129	0.0
	UP	17141	0	328.0	128.9	-1.7	830	0.0
	Uttarakhand	1820	0	36.2	23.5	-0.0	86	0.0
	HP	1444	0	28.9	15.9	0.3	120	0.2
	J&K(UT) & Ladakh(UT)	2679	0	46.6	33.9	2.1	424	0.0
	Chandigarh	191	0	3.5	3.4	0.0	26	0.0
WR	Chhattisgarh	3784	0	85.9	39.2	-0.5	267	0.0
	Gujarat	16186	0	358.7	75.4	1.7	397	0.0
	MP	11037	0	246.4	145.2	-3.5	364	0.0
	Maharashtra	19172	0	419.9	119.0	-4.3	544	0.0
	Goa	532	18	11.3	10.9	-0.3	53	0.0
	DD	352	0	7.8	7.5	0.3	34	0.0
	DNH	796	0	18.6	18.6	-0.1	34	0.0
	AMNSIL	784	0	17.6	1.2	0.5	238	0.0
SR	Andhra Pradesh	7453	0	155.0	74.0	1.0	878	0.0
	Telangana	6376	0	134.4	38.2	-0.6	495	0.0
	Karnataka	7869	0	147.7	54.8	0.1	784	0.0
	Kerala	3374	0	69.3	38.3	-0.3	256	0.0
	Tamil Nadu	13317	0	288.6	164.0	-2.1	890	0.0
	Puducherry	367	0	7.5	7.6	-0.1	50	0.0
ER	Bihar	5745	0	109.1	105.0	-1.1	482	0.0
	DVC	3552	0	68.3	-53.1	-0.3	430	0.0
	Jharkhand	1500	0	28.6	22.7	-2.4	69	0.0
	Odisha	5143	0	104.6	20.7	-0.2	463	0.0
	West Bengal	8700	0	173.4	55.6	-0.2	401	0.0
	Sikkim	91	0	1.2	1.5	-0.3	7	0.0
NER	Arunachal Pradesh	126	1	2.2	2.2	-0.0	37	0.0
	Assam	1916	6	34.3	30.6	0.6	184	0.0
	Manipur	195	2	2.5	2.5	-0.1	44	0.0
	Meghalaya	329	0	5.8	2.1	-0.2	31	0.0
	Mizoram	99	1	1.6	0.7	0.6	17	0.0
	Nagaland	140	2	2.2	2.3	-0.3	14	0.0
	Tripura	289	1	5.5	5.8	0.1	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.0	-1.5	-24.9
Day Peak (MW)	1236.0	-255.5	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	317.6	-289.0	74.5	-105.9	2.8	0.0
Actual(MU)	320.0	-286.8	84.1	-119.3	3.0	1.1
O/D/U/D(MU)	2.4	2.2	9.6	-13.4	0.3	1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6080	16415	9762	1510	275	34042
State Sector	13064	12301	16136	4335	47	45882
Total	19144	28716	25898	5845	322	79924

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	474	1280	349	525	10	2637
Lignite	19	15	14	0	0	48
Hydro	159	33	125	95	18	430
Nuclear	27	21	68	0	0	116
Gas, Naptha & Diesel	25	82	13	0	27	147
RES (Wind, Solar, Biomass & Others)	48	45	170	5	0	269
Total	752	1476	739	624	56	3647

Share of RES in total generation (%)	6.39	3.08	23.06	0.74	0.20	7.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.18	6.69	49.14	15.95	33.25	22.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.007
Based on State Max Demands	1.052

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: 21-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	700	0.0	14.9	-14.9
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	33	803	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	198	232	0.0	0.3	-0.3
5	765 kV	GAYA-BALIA	1	0	638	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	0	261	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	663	0.0	7.6	-7.6
9	400 kV	PATNA-BALIA	4	0	1279	0.0	20.7	-20.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	569	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	315	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	194	220	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI	1	0	107	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
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	0.7	94.9	-94.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	630	647	0.2	0.0	0.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1170	0	16.7	0.0	16.7
3	765 kV	JHARSUGUDA-DURG	2	151	185	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	1092	0	20.4	0.0	20.4
5	400 kV	RANCHI-SIPAT	2	400	0	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	18	87	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	114	9	1.3	0.0	1.3
					ER-WR	44.2	0.7	43.5
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	1990	0.0	41.6	-41.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2318	0.0	40.4	-40.4
4	400 kV	TALCHER-I/C	2	0	724	0.0	9.2	-9.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	90.6	-90.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	541	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	513	0.0	7.2	-7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	166	0.0	2.1	-2.1
					ER-NER	0.0	15.9	-15.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	602	0.0	14.5	-14.5
					NER-NR	0.0	14.5	-14.5

Import/Export of WR (With NR)

1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	47.7	-47.7
2	HVDC	VINDHYACHAL B/B	-	448	207	1.8	2.8	-1.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1549	0.0	34.8	-34.8
4	765 kV	GWALIOR-AGRA	2	0	2879	0.0	49.3	-49.3
5	765 kV	PHAGI-GWALIOR	2	0	1503	0.0	24.8	-24.8
6	765 kV	JABALPUR-ORAI	2	0	1157	0.0	40.4	-40.4
7	765 kV	GWALIOR-ORAI	1	545	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1549	0.0	33.0	-33.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	756	0.0	7.1	-7.1
10	400 kV	ZERDA-KANKROLI	1	46	126	0.0	1.3	-1.3
11	400 kV	ZERDA -BHINMAL	1	0	273	0.0	3.7	-3.7
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	432	0.0	6.1	-6.1
14	220 kV	BHANPURA-RANPUR	1	0	102	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.6	-0.6
16	220 kV	MEHGAON-AURAIYA	1	105	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	61	30	1.0	0.0	1.0
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	34.8	252.9	-218.1

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	151	0.0	1.2	-1.2
3	765 kV	SOLAPUR-RAICHUR	2	1009	1503	0.0	11.6	-11.6
4	765 kV	WARDHA-NIZAMABAD	2	349	1652	0.0	17.3	-17.3
5	400 kV	KOLHAPUR-KUDGI	2	795	0	11.4	0.0	11.4
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	0	0.0	0.0	-0.0
					WR-SR	11.4	37.7	-26.2

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)	389	344	350	8.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	507	502	507	12.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	250	0	224	5.4
	NER	132KV-GEYLEGPHU - SALAKATI	34	18	-28	-0.7
	NER	132kV Motanga-Rangia	56	41	-49	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-46	0	-13	-0.3
	ER	132KV-BIHAR - NEPAL	-84	-1	-25	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-126	-2	-25	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-933	-932	-933	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-52	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-52	-1.2