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: 31th 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 30.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **31-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)	45610	49475	39985	19624	2759	157453
Peak Shortage (MW)	728	0	0	0	12	740
Energy Met (MU)	950	1168	906	385	50	3460
Hydro Gen (MU)	120	26	146	78	20	389
Wind Gen (MU)	7	25	11	-	-	43
Solar Gen (MU)*	34.18	29.87	95.59	4.52	0.13	164
Energy Shortage (MU)	1.1	0.0	0.0	0.0	0.1	1.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46955	52116	41509	19676	2862	158393
Time Of Maximum Demand Met (From NLDC SCADA)	10:26	11:02	09:50	18:42	17:30	18:40

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	0.036	0.00	0.25	9.03	9.28	82.72	8.00

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	5870	0	115.7	94.9	-0.1	110	0.0
	Haryana	6097	0	129.8	118.9	-0.2	141	0.0
	Rajasthan	12645	0	241.5	89.6	-1.6	338	0.0
	Delhi	3503	0	65.8	48.4	-0.4	191	0.0
	UP	15145	290	282.3	125.2	0.5	405	1.1
	Uttarakhand	1779	0	36.0	25.7	1.1	158	0.0
	HP	1556	0	30.0	20.9	-0.6	75	0.0
	J&K(UT) & Ladakh(UT)	2414	0	45.4	40.3	-0.1	414	0.0
	Chandigarh	178	0	3.1	3.0	0.1	23	0.0
WR	Chhattisgarh	3485	0	76.0	24.9	-0.6	179	0.0
	Gujarat	16146	0	355.7	73.8	4.0	507	0.0
	MP	12760	0	263.1	155.7	-2.8	525	0.0
	Maharashtra	19006	0	421.2	127.3	-2.3	509	0.0
	Goa	491	0	9.5	9.1	-0.1	102	0.0
	DD	342	0	7.7	7.4	0.3	27	0.0
	DNH	803	0	18.4	18.1	0.3	86	0.0
	AMNSIL	801	0	16.7	2.1	0.1	263	0.0
SR	Andhra Pradesh	8315	0	175.0	79.1	0.4	671	0.0
	Telangana	7615	0	158.8	42.7	-0.2	449	0.0
	Karnataka	9180	0	175.4	62.8	0.2	514	0.0
	Kerala	3589	0	72.4	48.3	-0.5	237	0.0
	Tamil Nadu	14556	0	317.0	192.0	-0.5	468	0.0
	Puducherry	376	0	7.5	7.8	-0.2	36	0.0
ER	Bihar	4827	0	80.8	81.0	-1.0	357	0.0
	DVC	3016	0	64.4	-42.8	0.1	328	0.0
	Jharkhand	1248	0	25.4	20.5	-1.5	155	0.0
	Odisha	4160	0	78.3	10.0	-0.8	285	0.0
	West Bengal	7396	0	135.3	35.4	0.0	322	0.0
	Sikkim	88	0	1.3	1.3	0.0	20	0.0
NER	Arunachal Pradesh	113	1	2.2	2.1	0.1	17	0.0
	Assam	1727	6	30.7	27.4	0.2	92	0.0
	Manipur	203	1	2.6	2.7	-0.1	14	0.0
	Meghalaya	330	0	5.8	1.6	-0.2	55	0.0
	Mizoram	100	0	1.6	0.7	0.6	20	0.0
	Nagaland	134	2	2.4	2.2	-0.1	13	0.0
	Tripura	283	2	5.2	5.3	-0.1	58	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.9	-1.5	-25.6
Day Peak (MW)	1073.0	-208.0	-1113.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	322.0	-313.5	105.2	-114.7	0.9	0.0
Actual(MU)	326.2	-312.1	114.7	-130.3	0.0	-1.4
O/D/U/D(MU)	4.2	1.4	9.5	-15.6	-0.9	-1.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	14345	9662	2020	660	33487
State Sector	16377	13216	13066	6505	11	49174
Total	23177	27561	22728	8525	671	82661

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	402	1288	422	469	7	2588
Lignite	24	14	24	0	0	63
Hydro	120	26	146	78	20	389
Nuclear	28	21	66	0	0	114
Gas, Naptha & Diesel	22	90	16	0	28	157
RES (Wind, Solar, Biomass & Others)	53	55	141	5	0	254
Total	649	1494	814	551	55	3564
Share of RES in total generation (%)	8.19	3.70	17.28	0.83	0.24	7.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.87	6.84	43.27	14.93	35.79	21.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.075

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: 31-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	702	0.0	17.4	-17.4
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	989	0.0	13.5	-13.5
4	765 kV	SASARAM-FATEHPUR	1	65	354	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	524	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	145	0.0	2.2	-2.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	803	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	1109	0.0	15.1	-15.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	397	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	234	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	152	271	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	0	76	0.0	1.3	-1.3
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	0.4	92.8	-92.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	896	559	0.9	0.0	0.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	682	249	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	2	36	159	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	150	198	0.6	0.0	0.6
5	400 kV	RANCHI-SIPAT	2	240	93	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	96	13	1.1	0.0	1.1
					ER-WR	11.9	4.2	7.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	9.4	-9.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1046	0.0	24.6	-24.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2870	0.0	50.5	-50.5
4	400 kV	TALCHER-I/C	2	912	0	19.8	0.0	19.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	84.4	-84.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	430	0.0	5.7	-5.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	482	0.0	4.4	-4.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	95	0.0	1.3	-1.3
					ER-NER	0.0	11.5	-11.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	43.1	-43.1
2	HVDC	VINDHYACHAL B/B	-	0	492	0.0	6.5	-6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	30.0	-30.0
4	765 kV	GWALIOR-AGRA	2	0	2910	0.0	53.3	-53.3
5	765 kV	PHAGI-GWALIOR	2	0	1933	0.0	29.8	-29.8
6	765 kV	JABALPUR-ORAI	2	0	1172	0.0	42.8	-42.8
7	765 kV	GWALIOR-ORAI	1	725	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	1576	0.0	32.7	-32.7
9	765 kV	CHITORGARH-BANASKANTHA	2	92	1141	0.0	13.0	-13.0
10	400 kV	ZERDA-KANKROLI	1	104	229	0.0	1.6	-1.6
11	400 kV	ZERDA -BHINMAL	1	136	423	0.0	3.3	-3.3
12	400 kV	VINDHYACHAL -RIHAND	1	984	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	0	520	0.0	6.9	-6.9
14	220 kV	BHANPURA-RANPUR	1	0	148	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.4	-0.1
16	220 kV	MEHGAON-AURAIYA	1	94	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	53	13	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	35.6	265.2	-229.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.1	-12.1
2	HVDC	RAIGARH-PUGALUR	2	0	824	0.0	27.2	-27.2
3	765 kV	SOLAPUR-RAICHUR	2	605	2581	0.0	23.9	-23.9
4	765 kV	WARDHA-NIZAMABAD	2	191	2111	0.0	20.6	-20.6
5	400 kV	KOLHAPUR-KUDGI	2	687	0	8.2	0.0	8.2
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	48	0.8	0.0	0.8
					WR-SR	9.0	83.8	-74.9

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)	274	272	273	6.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	711	0	455	10.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	153	0	131	3.1
	NER	132KV-GEYLEGPHU - SALAKATI	-24	-10	-19	-0.5
	NER	132kV Motanga-Rangia	-42	-23	-34	-0.8
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-14	0	-1	0.0
	ER	132KV-BIHAR - NEPAL	-132	-1	-35	-0.8
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-62	-2	-25	-0.6
	ER	BHERAMARA HVDC(BANGLADESH)	-947	-928	-934	-22.4

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-67	-1.6