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: 5th 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 04.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04thOctober 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:** **05-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 1900 hrs; from RLDCs)	51433	46778	36005	20664	2820	157700
Peak Shortage (MW)	450	0	0	0	7	457
Energy Met (MU)	1182	1106	837	441	51	3617
Hydro Gen (MU)	210	44	107	135	23	521
Wind Gen (MU)	13	42	164	-	-	218
Solar Gen (MU)*	40.85	28.00	73.52	3.93	0.08	146
Energy Shortage (MU)	0.5	0.0	0.0	0.0	0.1	0.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53855	46950	36761	21636	2811	158593
Time Of Maximum Demand Met (From NLDC SCADA)	19:23	11:12	08:48	20:02	18:59	18:50

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	0.05	0.05	83.26	16.69

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	8160	0	185.6	105.0	-1.9	183	0.0
	Haryana	7240	0	162.5	129.8	2.0	223	0.0
	Rajasthan	11054	0	239.1	73.3	-0.9	267	0.0
	Delhi	4113	0	85.3	74.1	-0.7	220	0.0
	UP	19954	0	394.9	164.7	-0.6	393	0.5
	Uttarakhand	1742	0	36.2	20.3	1.0	224	0.0
	HP	1297	0	27.5	10.9	0.2	245	0.0
	J&K(UT) & Ladakh(UT)	2506	0	46.9	30.1	1.9	345	0.0
	Chandigarh	197	0	3.8	3.9	-0.1	11	0.0
WR	Chhattisgarh	3367	0	83.4	30.3	-1.0	197	0.0
	Gujarat	15160	0	344.7	79.9	1.3	484	0.0
	MP	9715	0	215.2	134.7	-1.2	447	0.0
	Maharashtra	18577	0	411.2	127.4	0.4	615	0.0
	Goa	422	0	8.9	8.4	-0.1	53	0.0
	DD	293	0	6.8	6.5	0.3	38	0.0
	DNH	763	0	17.8	17.6	0.3	44	0.0
	AMNSIL	812	0	17.8	1.2	0.6	247	0.0
SR	Andhra Pradesh	7131	0	155.3	46.1	-1.1	392	0.0
	Telangana	8958	0	183.7	65.4	0.2	513	0.0
	Karnataka	7539	0	146.9	47.6	0.7	648	0.0
	Kerala	3129	0	62.4	36.6	0.4	198	0.0
	Tamil Nadu	12383	0	281.9	127.0	-2.0	634	0.0
	Puducherry	328	0	6.8	7.0	-0.2	30	0.0
ER	Bihar	5410	0	107.6	102.1	0.5	306	0.0
	DVC	3041	0	62.3	-45.4	-1.0	294	0.0
	Jharkhand	1421	0	26.9	21.2	-1.9	124	0.0
	Odisha	4420	0	91.9	24.5	-0.5	345	0.0
	West Bengal	7704	0	151.5	44.5	0.3	431	0.0
	Sikkim	71	0	1.0	1.2	-0.2	9	0.0
NER	Arunachal Pradesh	108	2	2.0	2.1	-0.1	37	0.0
	Assam	1801	25	31.8	28.3	-0.1	125	0.0
	Manipur	193	1	2.7	2.6	0.2	28	0.0
	Meghalaya	324	0	5.7	1.0	-0.3	28	0.0
	Mizoram	85	1	1.5	1.0	0.3	16	0.0
	Nagaland	118	2	2.6	2.4	-0.1	24	0.0
	Tripura	330	1	4.7	6.5	0.1	47	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	45.1	-2.0	-25.4
Day Peak (MW)	2085.0	-235.3	-1098.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	306.9	-268.3	71.6	-108.9	-1.3	0.0
Actual(MU)	315.5	-259.7	57.7	-109.0	-1.0	3.5
O/D/U/D(MU)	8.6	8.6	-13.9	-0.1	0.3	3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5416	16167	12812	1955	525	36875
State Sector	9919	18057	15576	6057	112	49721
Total	15335	34224	28388	8012	637	86596

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	535	1113	300	441	7	2395
Lignite	28	13	23	0	0	63
Hydro	210	45	107	135	24	521
Nuclear	27	21	69	0	0	117
Gas, Naptha & Diesel	21	98	15	0	28	162
RES (Wind, Solar, Biomass & Others)	65	70	271	4	0	411
Total	887	1358	786	580	58	3669
Share of RES in total generation (%)	7.36	5.16	34.54	0.68	0.14	11.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.11	9.95	57.02	23.99	40.52	28.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.071

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: 05-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	1001	0.0	24.5	-24.5
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	650	0.0	11.8	-11.8
4	765 kV	SASARAM-FATEHPUR	1	105	137	0.2	0.0	0.2
5	765 kV	GAYA-BALIA	1	0	491	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	127	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	704	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	4	0	841	0.0	17.0	-17.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	341	0.0	6.1	-6.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	331	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	74	199	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	1	38	55	0.0	0.4	-0.4
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	0	0.0	0.0	0.0
					ER-NR	0.5	103.6	-103.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1035	0	12.7	0.0	12.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1138	0	18.2	0.0	18.2
3	765 kV	JHARSUGUDA-DURG	2	335	37	2.5	0.0	2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	288	58	1.8	0.0	1.8
5	400 kV	RANCHI-SIPAT	2	385	0	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	121	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	130	0	1.8	0.0	1.8
					ER-WR	42.4	1.8	40.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	336	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1340	0.0	27.3	-27.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2382	0.0	42.3	-42.3
4	400 kV	TALCHER-I/C	2	1306	57	11.6	0.0	11.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	77.2	-77.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	405	0.0	6.9	-6.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	53	426	0.0	4.2	-4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	1.9	-1.9
					ER-NER	0.0	13.1	-13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	605	0.0	14.6	-14.6
					NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	25.5	-25.5
2	HVDC	VINDHYACHAL B/B	-	357	0	2.6	0.0	2.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	35.2	-35.2
4	765 kV	GWALIOR-AGRA	2	0	2588	0.0	53.7	-53.7
5	765 kV	PHAGI-GWALIOR	2	0	1286	0.0	27.1	-27.1
6	765 kV	JABALPUR-ORAI	2	0	1064	0.0	43.9	-43.9
7	765 kV	GWALIOR-ORAI	1	522	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1468	0.0	32.0	-32.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1070	0.0	9.6	-9.6
10	400 kV	ZERDA-KANKROLI	1	1	195	0.0	1.8	-1.8
11	400 kV	ZERDA -BHINMAL	1	70	295	0.0	2.5	-2.5
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	444	0.0	3.8	-3.8
14	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.4	-2.4
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.2	-2.2
16	220 kV	MEHGAON-AURAIYA	1	96	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	53	28	1.2	0.0	1.2
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	36.9	239.6	-202.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.5	-7.5
2	HVDC	RAIGARH-PUGALUR	2	0	297	0.0	7.2	-7.2
3	765 kV	SOLAPUR-RAICHUR	2	1662	1185	3.0	0.0	3.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1733	0.0	23.8	-23.8
5	400 kV	KOLHAPUR-KUDGI	2	1029	0	13.2	0.0	13.2
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	75	1.5	0.0	1.5
					WR-SR	17.7	38.4	-20.8

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)	555	400	463	11.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1070	930	1001	24.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	347	312	313	7.5
	NER	132KV-GEYLEGPHU - SALAKATI	55	44	-49	-1.2
	NER	132kV Motanga-Rangia	59	48	-54	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-48	0	-23	-0.6
	ER	132KV-BIHAR - NEPAL	-23	-1	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-164	-2	-56	-1.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	-914	-921	-22.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-68	-1.6