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: 10th 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 09.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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:** **10-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)	51582	50418	39433	22717	2938	167088
Peak Shortage (MW)	775	0	0	0	166	941
Energy Met (MU)	1170	1184	926	473	56	3809
Hydro Gen (MU)	196	55	117	125	24	518
Wind Gen (MU)	3	31	40	-	-	74
Solar Gen (MU)*	40.63	28.54	81.17	4.09	0.12	155
Energy Shortage (MU)	0.9	0.0	0.0	0.0	1.6	2.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55529	51309	43368	22688	3035	168618
Time Of Maximum Demand Met (From NLDC SCADA)	23:30	15:03	10:41	18:59	17:53	11:43

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	0.022	0.00	0.00	3.31	3.31	84.70	11.99

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	7703	0	157.1	104.5	-2.0	138	0.0
	Haryana	7593	225	169.1	134.3	1.5	202	0.9
	Rajasthan	11719	0	249.1	76.5	0.7	364	0.0
	Delhi	4204	0	89.4	74.4	-1.8	115	0.0
	UP	19561	0	385.0	158.9	-2.6	271	0.0
	Uttarakhand	1841	0	37.9	21.5	-0.1	102	0.0
	HP	1447	0	30.2	13.8	0.3	89	0.0
	J&K(UT) & Ladakh(UT)	2669	0	48.6	29.6	4.0	508	0.0
	Chandigarh	214	0	4.2	4.2	0.0	16	0.0
WR	Chhattisgarh	3709	0	84.3	22.6	-0.6	219	0.0
	Gujarat	16745	0	372.2	71.4	2.4	391	0.0
	MP	10089	0	224.9	131.3	-3.2	183	0.0
	Maharashtra	20505	0	448.6	144.2	-1.6	687	0.0
	Goa	497	0	10.2	9.6	0.0	45	0.0
	DD	342	0	7.5	7.3	0.2	40	0.0
	DNH	786	0	18.4	18.5	-0.1	30	0.0
	AMNSIL	802	0	18.1	1.2	0.4	254	0.0
SR	Andhra Pradesh	8387	0	179.0	89.9	2.0	1038	0.0
	Telangana	8928	0	178.0	70.4	-0.8	428	0.0
	Karnataka	9923	0	185.9	72.1	0.4	447	0.0
	Kerala	3437	0	68.0	45.2	-0.1	235	0.0
	Tamil Nadu	13799	0	307.1	171.2	-3.3	543	0.0
	Puducherry	383	0	8.1	8.2	-0.1	30	0.0
ER	Bihar	5600	0	113.5	106.4	0.4	521	0.0
	DVC	3014	0	65.7	-54.9	0.6	272	0.0
	Jharkhand	1424	0	28.7	21.3	-1.3	129	0.0
	Odisha	4608	0	92.1	9.5	-0.7	307	0.0
	West Bengal	8330	0	171.6	51.8	1.8	517	0.0
	Sikkim	98	0	1.3	1.4	-0.1	23	0.0
NER	Arunachal Pradesh	125	1	2.1	2.0	0.1	64	0.0
	Assam	1924	111	35.8	31.6	0.8	202	1.5
	Manipur	202	2	2.8	2.5	0.4	47	0.0
	Meghalaya	344	0	5.9	0.1	0.2	44	0.0
	Mizoram	95	1	1.5	1.0	0.1	30	0.0
	Nagaland	127	1	2.5	2.3	0.0	15	0.0
	Tripura	303	1	5.4	6.6	0.5	61	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.0	-1.9	-25.3
Day Peak (MW)	1731.0	-228.4	-1088.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	306.4	-308.6	113.4	-113.7	5.6	3.1
Actual(MU)	315.5	-329.3	116.7	-116.9	9.0	-4.9
O/D/U/D(MU)	9.2	-20.8	3.4	-3.2	3.5	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5447	14027	9112	2945	638	32168
State Sector	11694	16005	12366	5457	112	45634
Total	17141	30031	21478	8402	751	77802

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	549	1291	444	489	9	2782
Lignite	25	10	23	0	0	58
Hydro	196	55	117	125	24	518
Nuclear	27	21	69	0	0	116
Gas, Naptha & Diesel	26	96	15	0	19	156
RES (Wind, Solar, Biomass & Others)	53	60	154	4	0	272
Total	876	1533	821	619	52	3902
Share of RES in total generation (%)	6.07	3.92	18.80	0.67	0.23	6.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.51	8.84	41.40	20.94	46.79	23.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.076

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: 10-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	1005	0.0	23.8	-23.8
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	12	550	0.0	7.5	-7.5
4	765 kV	SASARAM-FATEHPUR	1	310	133	1.7	0.0	1.7
5	765 kV	GAYA-BALIA	1	0	462	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	261	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	121	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	548	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	4	0	710	0.0	12.5	-12.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	314	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	182	141	0.4	0.0	0.4
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.6	-2.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	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	2.4	88.9	-86.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	646	0	6.1	0.0	6.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1207	0	16.5	0.0	16.5
3	765 kV	JHARSUGUDA-DURG	2	166	82	0.8	0.0	0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	255	0	3.1	0.0	3.1
5	400 kV	RANCHI-SIPAT	2	416	0	3.9	0.0	3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	161	0	2.4	0.0	2.4
					ER-WR	32.8	2.2	30.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	477	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1493	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2201	0.0	42.6	-42.6
4	400 kV	TALCHER-I/C	2	403	0	8.2	0.0	8.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	88.6	-88.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	568	0.0	9.0	-9.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	654	0.0	9.4	-9.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	169	0.0	2.9	-2.9
					ER-NER	0.0	21.3	-21.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	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	60.8	-60.8
2	HVDC	VINDHYACHAL B/B	-	315	0	8.5	0.0	8.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1737	0.0	36.9	-36.9
4	765 kV	GWALIOR-AGRA	2	0	2608	0.0	50.6	-50.6
5	765 kV	PHAGI-GWALIOR	2	0	1191	0.0	22.1	-22.1
6	765 kV	JABALPUR-ORAI	2	0	1076	0.0	42.5	-42.5
7	765 kV	GWALIOR-ORAI	1	538	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1364	0.0	29.4	-29.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	655	0.0	9.5	-9.5
10	400 kV	ZERDA-KANKROLI	1	14	109	0.0	1.2	-1.2
11	400 kV	ZERDA -BHINMAL	1	0	206	0.0	3.1	-3.1
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	382	0.0	7.3	-7.3
14	220 kV	BHANPURA-RANPUR	1	0	148	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	113	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	64	23	1.3	0.0	1.3
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	42.0	267.9	-225.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	19.1	-19.1
3	765 kV	SOLAPUR-RAICHUR	2	510	1643	0.0	14.7	-14.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1608	0.0	24.5	-24.5
5	400 kV	KOLHAPUR-KUDGI	2	543	0	7.3	0.0	7.3
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	85	1.6	0.0	1.6
					WR-SR	9.0	82.1	-73.2

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)	488	0	452	10.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	819	0	738	17.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	314	0	288	6.9
	NER	132KV-GEYLEGPHU - SALAKATI	49	35	-48	-1.1
	NER	132kV Motanga-Rangia	62	41	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-48	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-24	-1	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-156	-4	-57	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-926	-924	-925	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-66	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-66	-1.6