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: 4th 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 03.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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: 04-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 2000 hrs; from RLDCs)	54639	49142	38112	20611	2860	165364
Peak Shortage (MW)	0	0	0	0	7	7
Energy Met (MU)	1226	1132	850	447	53	3709
Hydro Gen (MU)	214	50	117	130	23	534
Wind Gen (MU)	11	42	151	-	-	205
Solar Gen (MU)*	39.85	30.24	81.39	4.15	0.09	156
Energy Shortage (MU)	0.8	0.0	0.0	0.0	0.0	0.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56887	49237	39249	21107	2994	167336
Time Of Maximum Demand Met (From NLDC SCADA)	19:17	18:52	09:52	22:57	18:57	18:57

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	1.48	1.48	86.01	12.51

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	8954	0	194.1	107.1	-1.6	124	0.0
	Haryana	7935	0	172.3	135.3	0.4	135	0.0
	Rajasthan	11458	0	245.5	77.0	-2.3	450	0.0
	Delhi	4324	0	91.9	81.1	-1.1	120	0.0
	UP	20562	0	405.5	168.5	-1.6	385	0.8
	Uttarakhand	1844	0	37.1	20.0	0.6	112	0.0
	HP	1398	0	29.3	11.2	0.8	104	0.0
	J&K(UT) & Ladakh(UT)	2613	0	46.3	30.6	0.7	324	0.0
	Chandigarh	207	0	4.2	4.3	-0.1	23	0.0
WR	Chhattisgarh	3725	0	88.7	35.4	-0.1	214	0.0
	Gujarat	16161	0	355.1	79.5	1.5	624	0.0
	MP	9586	0	217.3	135.8	-1.3	432	0.0
	Maharashtra	19121	0	420.0	131.4	1.6	562	0.0
	Goa	479	0	9.4	8.9	-0.1	45	0.0
	DD	312	0	6.7	6.5	0.2	41	0.0
	DNH	763	0	17.4	17.3	0.1	49	0.0
	AMNSIL	823	0	17.1	1.2	0.3	249	0.0
SR	Andhra Pradesh	7346	0	155.2	49.7	0.7	1041	0.0
	Telangana	8964	0	181.0	55.4	1.8	840	0.0
	Karnataka	8238	0	156.9	52.9	1.7	558	0.0
	Kerala	3382	0	66.9	41.8	0.2	248	0.0
	Tamil Nadu	13152	0	284.3	130.8	-3.7	500	0.0
	Puducherry	332	0	6.2	7.1	-1.0	33	0.0
ER	Bihar	5561	0	109.1	104.8	-0.6	285	0.0
	DVC	2926	0	63.0	-45.2	-0.2	276	0.0
	Jharkhand	1372	0	27.2	21.4	-2.0	83	0.0
	Odisha	4394	0	88.4	21.7	-0.1	277	0.0
	West Bengal	7644	0	158.3	47.0	0.4	414	0.0
	Sikkim	83	0	1.1	1.3	-0.2	22	0.0
NER	Arunachal Pradesh	116	2	2.0	2.0	0.0	72	0.0
	Assam	1868	19	33.5	30.0	0.1	135	0.0
	Manipur	204	2	2.6	2.5	0.1	39	0.0
	Meghalaya	359	0	6.1	0.6	0.4	74	0.0
	Mizoram	95	1	1.7	1.1	0.2	10	0.0
	Nagaland	127	2	2.6	2.4	-0.1	13	0.0
	Tripura	319	2	4.9	6.7	0.3	53	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.7	-1.0	-25.7
Day Peak (MW)	1960.0	-216.0	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	321.3	-283.5	68.6	-107.7	1.3	0.0
Actual(MU)	329.2	-282.2	56.7	-107.3	2.6	-1.1
O/D/U/D(MU)	7.9	1.3	-11.9	0.4	1.3	-1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5616	15222	12602	1455	525	35421
State Sector	10364	17847	16096	6057	112	50476
Total	15980	33069	28698	7512	637	85897

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	567	1147	319	455	7	2495
Lignite	28	13	24	0	0	65
Hydro	215	50	117	130	23	534
Nuclear	27	21	69	0	0	117
Gas, Naptha & Diesel	21	95	14	0	27	158
RES (Wind, Solar, Biomass & Others)	62	73	262	4	0	402
Total	920	1397	806	589	57	3770
Share of RES in total generation (%)	6.78	5.19	32.56	0.70	0.16	10.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.02	10.22	55.61	22.83	40.71	27.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.056

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: 04-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	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	0	673	0.0	11.1	-11.1
4	765 kV	SASARAM-FATEHPUR	1	161	115	1.4	0.0	1.4
5	765 kV	GAYA-BALIA	1	0	485	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	636	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	4	0	833	0.0	15.8	-15.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	337	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	331	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	48	204	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	134	123	0.0	1.9	-1.9
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	1.8	101.5	-99.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	752	0	13.3	0.0	13.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1308	0	18.7	0.0	18.7
3	765 kV	JHARSUGUDA-DURG	2	255	49	2.1	0.0	2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	312	85	2.7	0.0	2.7
5	400 kV	RANCHI-SIPAT	2	442	0	7.1	0.0	7.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	141	0	1.6	0.0	1.6
					ER-WR	45.4	2.2	43.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	331	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	33.7	-33.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2711	0.0	40.4	-40.4
4	400 kV	TALCHER-I/C	2	617	562	7.0	0.0	7.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	81.8	-81.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	498	0.0	6.9	-6.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	520	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	143	0.0	2.2	-2.2
					ER-NER	0.0	14.8	-14.8
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	1600	0.0	36.0	-36.0
2	HVDC	VINDHYACHAL B/B	-	271	0	4.4	0.0	4.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	43.5	-43.5
4	765 kV	GWALIOR-AGRA	2	0	2724	0.0	55.7	-55.7
5	765 kV	PHAGI-GWALIOR	2	0	1338	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	1145	0.0	43.7	-43.7
7	765 kV	GWALIOR-ORAI	1	532	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	1	0	1559	0.0	32.8	-32.8
9	765 kV	CHITORGARH-BANASKANTHA	2	0	942	0.0	8.5	-8.5
10	400 kV	ZERDA-KANKROLI	1	0	141	0.0	1.4	-1.4
11	400 kV	ZERDA -BHINMAL	1	0	207	0.0	2.4	-2.4
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	477	0.0	7.2	-7.2
14	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	100	0	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	51	29	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	38.2	261.1	-222.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	0	298	0.0	7.2	-7.2
3	765 kV	SOLAPUR-RAICHUR	2	1293	1302	4.3	0.0	4.3
4	765 kV	WARDHA-NIZAMABAD	2	197	2112	0.0	18.5	-18.5
5	400 kV	KOLHAPUR-KUDGI	2	997	0	12.3	0.0	12.3
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	77	1.5	0.0	1.5
					WR-SR	18.1	32.9	-14.8

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)	544	176	340	8.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	973	0	910	21.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	331	0	303	7.3
	NER	132KV-GEYLEGPHU - SALAKATI	54	43	-50	-1.2
	NER	132kV Motanga-Rangia	58	51	-53	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-54	0	-14	-0.3
	ER	132KV-BIHAR - NEPAL	-22	-1	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-140	4	-25	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	-915	-923	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-74	-1.8