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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20th Sep 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 19.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-सितंबर-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 19th September 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:** **20-Sep-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)	65320	46131	34675	23112	3013	172251
Peak Shortage (MW)	1124	0	0	0	160	1284
Energy Met (MU)	1498	1078	796	489	57	3918
Hydro Gen (MU)	325	104	136	134	25	724
Wind Gen (MU)	6	26	149	-	-	180
Solar Gen (MU)*	38.75	22.59	54.48	4.62	0.10	121
Energy Shortage (MU)	1.0	0.0	0.0	0.0	2.5	3.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67522	47446	37091	24059	3104	174355
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	10:56	09:28	19:18	18:55	19:19

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	0.059	0.62	2.07	11.46	14.16	80.60	5.24

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	12400	0	276.7	148.8	-1.8	117	0.0
	Haryana	9739	160	217.2	154.1	2.2	240	0.3
	Rajasthan	12555	0	271.0	86.0	0.3	262	0.0
	Delhi	6073	0	123.5	107.1	0.4	220	0.0
	UP	23498	238	479.0	218.5	-0.3	626	0.5
	Uttarakhand	1984	0	43.5	22.5	1.3	238	0.3
	HP	1455	0	32.9	5.2	-0.2	63	0.0
	J&K(UT) & Ladakh(UT)	2459	0	47.9	25.8	0.1	163	0.0
	Chandigarh	289	0	5.9	5.9	0.1	18	0.0
WR	Chhattisgarh	4056	0	96.8	34.5	-1.4	212	0.0
	Gujarat	14788	0	323.1	83.6	-0.8	437	0.0
	MP	9926	0	222.5	105.8	-2.9	639	0.0
	Maharashtra	17642	0	383.0	130.8	-4.1	775	0.0
	Goa	427	0	9.0	8.3	0.1	56	0.0
	DD	320	0	7.2	7.1	0.1	27	0.0
	DNH	761	0	17.6	17.4	0.2	51	0.0
	AMNSIL	840	0	18.9	3.1	1.0	335	0.0
SR	Andhra Pradesh	6608	0	152.0	52.6	4.6	1291	0.0
	Telangana	7002	0	144.3	57.5	0.7	501	0.0
	Karnataka	7878	0	151.5	55.6	0.1	463	0.0
	Kerala	2952	0	60.6	33.8	-0.9	182	0.0
	Tamil Nadu	12779	0	279.8	120.1	-4.1	564	0.0
	Puducherry	370	0	7.9	7.8	0.0	40	0.0
ER	Bihar	5888	0	115.4	110.3	-1.1	521	0.0
	DVC	2921	0	65.7	-42.5	-0.9	317	0.0
	Jharkhand	1487	0	29.5	21.8	-0.5	384	0.0
	Odisha	4527	0	98.5	18.9	-1.6	287	0.0
	West Bengal	8493	0	178.4	65.1	2.4	868	0.0
	Sikkim	87	0	1.2	1.4	-0.2	12	0.0
NER	Arunachal Pradesh	129	1	2.2	2.0	0.3	27	0.0
	Assam	1945	148	36.4	31.4	1.0	183	2.5
	Manipur	210	1	2.8	2.6	0.3	45	0.0
	Meghalaya	334	0	5.8	1.2	-0.3	38	0.0
	Mizoram	96	1	1.7	1.1	0.4	19	0.0
	Nagaland	138	1	2.4	2.5	-0.4	11	0.0
	Tripura	318	2	5.6	6.5	0.1	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	-1.4	-26.5
Day Peak (MW)	2358.0	-360.5	-1145.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	361.4	-328.0	75.5	-108.2	-0.7	0.0
Actual(MU)	371.0	-340.4	74.6	-110.6	1.1	-4.2
O/D/U/D(MU)	9.7	-12.4	-0.9	-2.4	1.8	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3811	16368	13152	1945	525	35802
State Sector	7209	17922	17432	6165	11	48739
Total	11020	34290	30584	8110	536	84541

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	677	1166	252	474	9	2578
Lignite	32	11	29	0	0	72
Hydro	325	104	136	134	25	724
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	84	16	0	28	161
RES (Wind, Solar, Biomass & Others)	60	49	234	5	0	347
Total	1154	1435	735	613	62	3999
Share of RES in total generation (%)	5.20	3.40	31.79	0.76	0.16	8.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.68	12.08	59.63	22.68	39.95	29.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
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: 20-Sep-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	24.2	-24.2
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	12	506	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	270	128	2.5	0.0	2.5
5	765 kV	GAYA-BALIA	1	0	553	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	0	287	0.0	5.7	-5.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	692	0.0	11.7	-11.7
9	400 kV	PATNA-BALIA	4	0	1033	0.0	19.2	-19.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	453	0.0	7.4	-7.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	330	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	181	124	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.5	-2.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	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	3.2	101.4	-98.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1227	0	9.3	0.0	9.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1412	0	19.7	0.0	19.7
3	765 kV	JHARSUGUDA-DURG	2	196	98	1.2	0.0	1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	336	0	5.5	0.0	5.5
5	400 kV	RANCHI-SIPAT	2	486	0	8.5	0.0	8.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	168	0	2.7	0.0	2.7
					ER-WR	46.9	2.0	44.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	13.4	-13.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	26.4	-26.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2379	0.0	35.8	-35.8
4	400 kV	TALCHER-I/C	2	668	527	0.0	0.7	-0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	75.6	-75.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	458	0.0	5.2	-5.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	536	0.0	5.1	-5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.7	-1.7
					ER-NER	0.0	12.0	-12.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.2	-13.2
					NER-NR	0.0	13.2	-13.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	77.4	-77.4
2	HVDC	VINDHYACHAL B/B	-	181	105	0.3	2.3	-2.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2191	0.0	47.9	-47.9
4	765 kV	GWALIOR-AGRA	2	0	2936	0.0	52.3	-52.3
5	765 kV	PHAGI-GWALIOR	2	0	1051	0.0	19.1	-19.1
6	765 kV	JABALPUR-ORAI	2	0	1125	0.0	38.9	-38.9
7	765 kV	GWALIOR-ORAI	1	423	0	8.4	0.0	8.4
8	765 kV	SATNA-ORAI	1	0	1584	0.0	32.8	-32.8
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1076	0.0	14.5	-14.5
10	400 kV	ZERDA-KANKROLI	1	12	190	0.0	1.6	-1.6
11	400 kV	ZERDA -BHINMAL	1	0	304	0.0	3.2	-3.2
12	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	517	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	0	112	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	1	93	0	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	45	41	1.1	0.0	1.1
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	32.2	300.8	-268.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	15.4	-15.4
2	HVDC	RAIGARH-PUGALUR	2	144	150	0.0	3.7	-3.7
3	765 kV	SOLAPUR-RAICHUR	2	1060	1865	0.0	0.8	-0.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2025	0.0	18.6	-18.6
5	400 kV	KOLHAPUR-KUDGI	2	664	0	10.9	0.0	10.9
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	63	1.3	0.0	1.3
					WR-SR	12.2	38.4	-26.3

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)	779	0	652	15.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1071	0	1065	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	387	0	343	8.2
	NER	132KV-GEYLEGPHU - SALAKATI	55	34	-48	-1.2
	NER	132kV Motanga-Rangia	66	9	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-33	0	-2	-0.1
	ER	132KV-BIHAR - NEPAL	-150	-1	-28	-0.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-178	-4	-29	-0.7
	ER	BHERAMARA HVDC(BANGLADESH)	-949	-833	-943	-22.6

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	98	0	-80	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	98	0	-80	-1.9