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: 12th 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 11.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	64894	45635	37354	22171	2925	172979
Peak Shortage (MW)	433	0	0	0	119	552
Energy Met (MU)	1422	1102	888	471	56	3939
Hydro Gen (MU)	330	94	105	149	20	698
Wind Gen (MU)	6	22	116	-	-	144
Solar Gen (MU)*	38.06	24.73	76.37	4.51	0.11	144
Energy Shortage (MU)	0.3	0.0	0.0	0.0	1.1	1.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65794	48516	41873	22117	3024	173215
Time Of Maximum Demand Met (From NLDC SCADA)	22:25	10:35	09:22	20:29	19:40	19:42

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	0.014	0.00	0.00	0.21	0.21	86.54	13.25

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	11528	0	261.4	145.0	-2.0	30	0.0
	Haryana	9580	0	211.7	156.0	1.7	233	0.0
	Rajasthan	10902	0	227.3	87.2	-0.7	396	0.0
	Delhi	5644	0	116.7	103.6	-0.6	158	0.0
	UP	23525	0	474.4	222.8	0.9	432	0.3
	Uttarakhand	1934	0	43.8	22.1	0.3	96	0.0
	HP	1494	0	32.9	1.8	-0.6	37	0.0
	J&K(UT) & Ladakh(UT)	2411	0	47.4	25.7	0.5	196	0.0
	Chandigarh	295	0	6.0	6.0	0.0	34	0.0
WR	Chhattisgarh	3928	0	90.4	39.1	-0.6	509	0.0
	Gujarat	15749	0	340.7	80.0	0.3	682	0.0
	MP	9379	0	215.2	112.3	-1.9	235	0.0
	Maharashtra	18527	0	404.4	165.9	-5.1	608	0.0
	Goa	450	0	9.4	9.1	-0.3	48	0.0
	DD	316	0	7.1	7.1	0.0	18	0.0
	DNH	749	0	17.6	17.7	-0.1	37	0.0
	AMNSIL	818	0	17.5	3.3	0.2	245	0.0
SR	Andhra Pradesh	8610	0	182.8	63.8	0.8	682	0.0
	Telangana	10108	0	198.2	87.1	-1.4	511	0.0
	Karnataka	8124	0	157.0	56.6	0.8	594	0.0
	Kerala	2955	0	61.8	43.8	0.3	140	0.0
	Tamil Nadu	13515	0	280.3	120.5	-2.1	603	0.0
	Puducherry	366	0	7.6	8.0	-0.4	19	0.0
ER	Bihar	5993	0	116.4	110.7	-0.8	654	0.0
	DVC	3123	0	66.7	-46.4	0.9	356	0.0
	Jharkhand	1434	0	29.1	22.1	-0.5	189	0.0
	Odisha	4325	0	88.2	27.1	0.1	157	0.0
	West Bengal	7859	0	169.4	48.1	6.5	146	0.0
	Sikkim	89	0	1.1	1.3	-0.2	12	0.0
NER	Arunachal Pradesh	113	1	2.1	2.2	-0.1	18	0.0
	Assam	1981	102	36.0	32.6	0.0	155	1.0
	Manipur	207	1	2.9	2.6	0.4	21	0.0
	Meghalaya	321	0	5.9	0.8	-0.2	40	0.0
	Mizoram	98	1	1.7	1.1	0.2	17	0.0
	Nagaland	139	1	2.5	2.6	-0.3	6	0.0
	Tripura	296	1	4.9	5.6	-0.4	29	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.0	-2.3	-24.1
Day Peak (MW)	2328.0	-321.8	-1098.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	346.2	-341.9	104.3	-113.5	4.9	0.0
Actual(MU)	360.8	-357.9	95.4	-106.0	5.0	-2.8
O/D/U/D(MU)	14.6	-16.0	-8.9	7.5	0.1	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3502	13198	11002	1815	425	29943
State Sector	8179	16043	12732	5685	11	42650
Total	11681	29241	23734	7500	436	72592

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	611	1228	370	444	10	2663
Lignite	26	10	23	0	0	59
Hydro	330	94	105	149	20	698
Nuclear	26	21	66	0	0	114
Gas, Naptha & Diesel	32	78	16	0	26	153
RES (Wind, Solar, Biomass & Others)	62	47	223	4	0	337
Total	1088	1478	804	597	56	4025
Share of RES in total generation (%)	5.71	3.20	27.76	0.75	0.20	8.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.46	10.98	49.07	25.71	35.61	28.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.079

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: 12-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	24.0	-24.0
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	598	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	192	139	0.0	0.3	-0.3
5	765 kV	GAYA-BALIA	1	0	533	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	0	82	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	73	0	1.3	0.0	1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	810	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	4	0	988	0.0	17.8	-17.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	433	0.0	6.3	-6.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	65	240	0.0	1.5	-1.5
13	220 kV	PUSAULI-SAHUPURI	1	0	139	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	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	1.6	93.8	-92.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1274	0	20.8	0.0	20.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1346	0	22.2	0.0	22.2
3	765 kV	JHARSUGUDA-DURG	2	198	28	2.0	0.0	2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	355	0	5.1	0.0	5.1
5	400 kV	RANCHI-SIPAT	2	533	0	8.2	0.0	8.2
6	220 kV	BUDHIPADAR-RAIGARH	1	28	45	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	214	0	4.1	0.0	4.1
					ER-WR	62.5	0.2	62.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	679	0.0	9.4	-9.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	41.3	-41.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2084	0.0	36.5	-36.5
4	400 kV	TALCHER-I/C	2	0	1099	0.0	12.0	-12.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	87.2	-87.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	478	0.0	6.0	-6.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	591	0.0	7.4	-7.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	135	0.0	2.4	-2.4
					ER-NER	0.0	15.8	-15.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.6	-13.6
					NER-NR	0.0	13.6	-13.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	53.9	-53.9
2	HVDC	VINDHYACHAL B/B	-	227	52	4.3	0.1	4.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1919	0.0	43.4	-43.4
4	765 kV	GWALIOR-AGRA	2	0	2915	0.0	56.9	-56.9
5	765 kV	PHAGI-GWALIOR	2	0	1246	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	1144	0.0	45.1	-45.1
7	765 kV	GWALIOR-ORAI	1	429	0	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	1540	0.0	33.7	-33.7
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1243	0.0	16.8	-16.8
10	400 kV	ZERDA-KANKROLI	1	0	238	0.0	2.3	-2.3
11	400 kV	ZERDA -BHINMAL	1	0	319	0.0	3.2	-3.2
12	400 kV	VINDHYACHAL -RIHAND	1	984	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	514	0.0	7.8	-7.8
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	140	0.0	2.6	-2.6
16	220 kV	MEHGAON-AURAIYA	1	79	12	0.1	0.2	-0.1
17	220 kV	MALANPUR-AURAIYA	1	39	46	0.8	0.0	0.7
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	37.1	293.6	-256.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	491	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	699	0.0	7.4	-7.4
3	765 kV	SOLAPUR-RAICHUR	2	918	1136	0.0	4.5	-4.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2080	0.0	28.2	-28.2
5	400 kV	KOLHAPUR-KUDGI	2	894	0	11.4	0.0	11.4
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	1.3	0.0	1.3
					WR-SR	12.7	51.9	-39.2

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)	779	766	768	18.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1060	1060	1060	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	373	0	315	7.6
	NER	132KV-GEYLEGPHU - SALAKATI	54	42	-49	-1.2
	NER	132kV Motanga-Rangia	62	55	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-47	0	-19	-0.5
	ER	132KV-BIHAR - NEPAL	-93	-1	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-2	-72	-1.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-951	0	-874	-21.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	74	0	-64	-1.5

	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-64	-1.5