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: 13th 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 12.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	64565	45407	35713	22490	2923	171098
Peak Shortage (MW)	380	0	0	0	101	481
Energy Met (MU)	1439	1076	850	476	56	3896
Hydro Gen (MU)	328	98	110	141	22	698
Wind Gen (MU)	3	30	127	-	-	160
Solar Gen (MU)*	37.23	25.40	70.37	4.28	0.12	137
Energy Shortage (MU)	0.1	0.0	0.0	0.0	1.0	1.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65880	46420	38663	24068	2985	171982
Time Of Maximum Demand Met (From NLDC SCADA)	22:24	19:18	09:21	23:55	18:47	19:18

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	0.021	0.00	0.00	1.76	1.76	84.50	13.74

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	11318	0	260.3	148.0	-2.0	17	0.0
	Haryana	9632	0	213.1	157.0	1.2	211	0.0
	Rajasthan	11170	0	245.1	90.5	0.4	280	0.0
	Delhi	5513	0	112.3	100.7	-0.8	174	0.0
	UP	23661	0	479.1	226.3	1.1	648	0.1
	Uttarakhand	1969	0	43.5	21.7	1.1	119	0.0
	HP	1471	0	32.8	2.6	-0.7	65	0.0
	J&K(UT) & Ladakh(UT)	2347	0	46.4	24.8	0.4	328	0.0
	Chandigarh	287	0	5.8	5.7	0.2	27	0.0
WR	Chhattisgarh	4008	0	93.1	38.8	-0.9	225	0.0
	Gujarat	14341	0	315.3	86.6	0.6	626	0.0
	MP	9453	0	216.2	108.3	-2.4	518	0.0
	Maharashtra	17970	0	398.1	149.9	-3.0	613	0.0
	Goa	438	0	9.0	8.7	-0.3	36	0.0
	DD	320	0	6.7	7.2	-0.5	18	0.0
	DNH	759	0	17.6	17.6	0.0	31	0.0
	AMNSIL	863	0	19.6	4.6	0.2	269	0.0
SR	Andhra Pradesh	8140	0	171.5	55.4	0.3	1047	0.0
	Telangana	8944	0	181.0	62.4	-0.5	407	0.0
	Karnataka	7773	0	149.4	57.0	0.1	601	0.0
	Kerala	2892	0	60.3	37.0	-0.1	203	0.0
	Tamil Nadu	12698	0	280.2	124.2	-4.0	720	0.0
	Puducherry	356	0	7.5	7.9	-0.3	32	0.0
ER	Bihar	6050	0	117.8	112.0	-0.5	385	0.0
	DVC	3295	0	68.1	-42.5	0.8	368	0.0
	Jharkhand	1588	0	28.8	21.6	-1.3	160	0.0
	Odisha	4205	0	88.6	27.3	-0.6	205	0.0
	West Bengal	8406	0	171.8	57.8	2.7	421	0.0
	Sikkim	88	0	1.1	1.3	-0.2	15	0.0
NER	Arunachal Pradesh	114	1	2.2	2.2	0.0	25	0.0
	Assam	1891	90	35.4	31.6	0.4	148	1.0
	Manipur	196	1	3.0	2.5	0.4	30	0.0
	Meghalaya	336	0	5.8	0.9	0.1	32	0.0
	Mizoram	99	1	1.7	1.2	0.2	23	0.0
	Nagaland	135	1	2.5	2.6	-0.2	15	0.0
	Tripura	295	1	5.1	5.8	0.0	38	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.1	-1.9	-26.8
Day Peak (MW)	2063.0	-284.1	-1121.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	355.2	-327.1	70.0	-101.0	2.8	0.0
Actual(MU)	369.3	-348.8	62.9	-86.9	3.6	0.0
O/D/U/D(MU)	14.1	-21.7	-7.1	14.0	0.8	0.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3502	13198	11502	1545	425	30173
State Sector	7414	17578	14352	5525	11	44880
Total	10916	30776	25854	7070	436	75052

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	625	1194	356	443	10	2628
Lignite	27	10	23	0	0	60
Hydro	328	98	110	141	22	698
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	31	64	16	0	26	137
RES (Wind, Solar, Biomass & Others)	58	56	229	4	0	346
Total	1096	1442	802	587	58	3986
Share of RES in total generation (%)	5.27	3.86	28.50	0.72	0.21	8.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.63	12.05	50.72	24.65	38.06	29.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.064

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: 13-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	24.9	-24.9
2	HVDC	PUSAULI B/B	-	6	297	0.0	0.6	-0.6
3	765 kV	GAYA-VARANASI	2	0	472	0.0	8.2	-8.2
4	765 kV	SASARAM-FATEHPUR	1	240	161	0.7	0.0	0.7
5	765 kV	GAYA-BALIA	1	0	496	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	256	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	86	73	1.2	0.0	1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	757	0.0	14.0	-14.0
9	400 kV	PATNA-BALIA	4	0	872	0.0	15.7	-15.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	380	0.0	6.4	-6.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	322	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	133	207	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	0	148	0.0	2.8	-2.8
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	2.2	89.6	-87.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	935	0	12.4	0.0	12.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1589	0	23.6	0.0	23.6
3	765 kV	JHARSUGUDA-DURG	2	171	35	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	335	60	4.0	0.0	4.0
5	400 kV	RANCHI-SIPAT	2	571	0	10.3	0.0	10.3
6	220 kV	BUDHIPADAR-RAIGARH	1	37	40	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	218	0	4.3	0.0	4.3
					ER-WR	56.1	0.2	55.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	28.7	-28.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	1659	0.0	30.3	-30.3
4	400 kV	TALCHER-I/C	2	617	499	0.0	0.0	0.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	67.9	-67.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	451	0.0	5.8	-5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	516	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	134	0.0	2.1	-2.1
					ER-NER	0.0	14.2	-14.2
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	2000	0.0	68.8	-68.8
2	HVDC	VINDHYACHAL B/B	-	47	105	0.8	0.9	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	31.9	-31.9
4	765 kV	GWALIOR-AGRA	2	0	2876	0.0	58.1	-58.1
5	765 kV	PHAGI-GWALIOR	2	0	1203	0.0	25.7	-25.7
6	765 kV	JABALPUR-ORAI	2	0	1123	0.0	46.5	-46.5
7	765 kV	GWALIOR-ORAI	1	442	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1540	0.0	33.8	-33.8
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1274	0.0	18.5	-18.5
10	400 kV	ZERDA-KANKROLI	1	0	260	0.0	3.0	-3.0
11	400 kV	ZERDA -BHINMAL	1	0	380	0.0	4.5	-4.5
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	490	0.0	8.6	-8.6
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	170	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	77	4	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	34	40	0.7	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	33.6	305.0	-271.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	674	0.0	9.6	-9.6
2	HVDC	RAIGARH-PUGALUR	2	0	299	0.0	5.7	-5.7
3	765 kV	SOLAPUR-RAICHUR	2	1004	666	2.2	0.0	2.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1510	0.0	18.6	-18.6
5	400 kV	KOLHAPUR-KUDGI	2	627	0	9.4	0.0	9.4
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	72	1.4	0.0	1.4
					WR-SR	12.9	33.9	-20.9

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)	766	0	666	16.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1060	1060	1060	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	362	0	329	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-55	-49	-55	-1.4
	NER	132kV Motanga-Rangia	-70	0	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-53	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-47	-1	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-184	-8	-58	-1.4
	ER	BHERAMARA HVDC(BANGLADESH)	-945	-941	-945	-23.1

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	88	0	-75	-1.8