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: 17th 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 16.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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:** **17-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)	66464	46610	36045	22236	2769	174124
Peak Shortage (MW)	305	0	0	0	157	462
Energy Met (MU)	1486	1092	801	473	50	3902
Hydro Gen (MU)	323	86	119	134	21	684
Wind Gen (MU)	6	37	145	-	-	189
Solar Gen (MU)*	36.63	23.81	71.74	1.58	0.06	134
Energy Shortage (MU)	1.1	0.0	0.0	0.0	3.1	4.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67797	47465	37680	22484	2797	174456
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	10:50	18:50	22:49	18:53	19:21

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	2.23	2.23	87.28	10.49

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	11757	0	268.0	152.6	-2.4	43	0.0
	Haryana	9797	0	220.8	150.8	1.0	209	0.0
	Rajasthan	12434	0	270.5	93.6	0.0	358	0.0
	Delhi	6030	0	123.9	107.4	0.4	244	0.0
	UP	23867	0	472.7	227.5	1.5	853	1.1
	Uttarakhand	1965	0	42.8	21.5	0.5	138	0.0
	HP	1509	43	33.2	4.9	0.0	69	0.0
	J&K(UT) & Ladakh(UT)	2202	0	47.7	26.7	-0.6	124	0.0
	Chandigarh	310	0	6.4	6.2	0.2	37	0.0
WR	Chhattisgarh	4335	0	103.5	44.3	-0.6	205	0.0
	Gujarat	13792	0	305.7	89.9	-0.1	506	0.0
	MP	9836	0	226.5	107.0	-3.7	526	0.0
	Maharashtra	18729	0	404.8	150.9	-1.6	422	0.0
	Goa	443	0	9.1	8.7	-0.2	43	0.0
	DD	329	0	7.3	7.2	0.1	34	0.0
	DNH	769	0	17.9	17.9	0.0	27	0.0
	AMNSIL	768	0	17.2	2.6	0.4	316	0.0
SR	Andhra Pradesh	7228	0	152.9	44.5	-1.6	815	0.0
	Telangana	6671	0	142.0	55.6	-2.1	509	0.0
	Karnataka	7614	0	150.6	57.8	0.2	569	0.0
	Kerala	3163	0	64.5	42.8	0.0	192	0.0
	Tamil Nadu	13119	0	283.1	132.8	-2.6	554	0.0
	Puducherry	356	0	7.5	7.9	-0.4	19	0.0
ER	Bihar	5704	0	111.4	104.8	1.2	595	0.0
	DVC	3082	0	66.8	-46.3	-0.1	251	0.0
	Jharkhand	1518	0	29.8	25.3	-1.3	151	0.0
	Odisha	4425	0	95.5	21.0	-0.5	488	0.0
	West Bengal	8089	0	168.6	53.3	2.0	560	0.0
	Sikkim	74	0	1.1	1.1	0.0	56	0.0
NER	Arunachal Pradesh	105	1	2.2	1.9	0.3	32	0.0
	Assam	1743	145	30.4	27.3	-0.8	113	3.0
	Manipur	185	1	2.5	2.6	0.0	18	0.0
	Meghalaya	322	0	5.9	1.6	-0.1	102	0.0
	Mizoram	88	2	1.7	1.0	0.3	8	0.0
	Nagaland	130	1	2.5	2.5	-0.2	6	0.0
	Tripura	284	1	5.0	5.6	0.1	97	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.2	-1.2	-25.9
Day Peak (MW)	2395.0	-156.1	-1120.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	360.1	-331.2	66.0	-95.3	0.4	0.0
Actual(MU)	369.6	-336.3	48.8	-90.2	0.2	-7.9
O/D/U/D(MU)	9.5	-5.2	-17.2	5.1	-0.2	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3101	13288	11602	2445	525	30962
State Sector	6359	18506	17012	5415	95	47387
Total	9460	31794	28614	7860	620	78349

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	669	1154	293	461	7	2584
Lignite	31	12	24	0	0	67
Hydro	323	86	119	134	21	684
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	77	16	0	28	154
RES (Wind, Solar, Biomass & Others)	59	61	243	2	0	365
Total	1141	1412	764	597	56	3970
Share of RES in total generation (%)	5.15	4.35	31.86	0.26	0.11	9.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.80	11.92	56.39	22.79	37.63	29.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.048

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: 17-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	1003	0.0	25.6	-25.6
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	479	0.0	7.6	-7.6
4	765 kV	SASARAM-FATEHPUR	1	243	31	3.0	0.0	3.0
5	765 kV	GAYA-BALIA	1	0	609	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	258	0.0	5.5	-5.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	109	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	12.5	-12.5
9	400 kV	PATNA-BALIA	4	0	1050	0.0	17.5	-17.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	520	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	2	983	316	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	112	106	0.6	0.0	0.6
13	220 kV	PUSAULI-SAHUPURI	1	1	7	0.0	0.0	0.0
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	3.8	101.0	-97.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	733	0	11.6	0.0	11.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1568	0	24.1	0.0	24.1
3	765 kV	JHARSUGUDA-DURG	2	186	10	2.1	0.0	2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	204	138	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	2	480	0	10.3	0.0	10.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	151	0	2.7	0.0	2.7
					ER-WR	52.0	2.0	50.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	39.3	-39.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2054	0.0	29.4	-29.4
4	400 kV	TALCHER-I/C	2	391	504	1.8	0.0	1.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	77.3	-77.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	392	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	430	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.7	-1.7
					ER-NER	0.0	11.5	-11.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4
					NER-NR	0.0	13.4	-13.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1756	0.0	60.3	-60.3
2	HVDC	VINDHYACHAL B/B	-	94	105	0.1	0.0	0.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	40.5	-40.5
4	765 kV	GWALIOR-AGRA	2	0	2966	0.0	58.9	-58.9
5	765 kV	PHAGI-GWALIOR	2	0	1257	0.0	25.2	-25.2
6	765 kV	JABALPUR-ORAI	2	0	1172	0.0	48.1	-48.1
7	765 kV	GWALIOR-ORAI	1	493	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1572	0.0	34.0	-34.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1074	0.0	18.0	-18.0
10	400 kV	ZERDA-KANKROLI	1	0	179	0.0	2.4	-2.4
11	400 kV	ZERDA -BHINMAL	1	0	292	0.0	4.3	-4.3
12	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	513	0.0	9.2	-9.2
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	0	121	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	31	0	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	35	36	0.9	0.0	0.9
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	33.2	305.1	-271.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	823	0.0	13.8	-13.8
2	HVDC	RAIGARH-PUGALUR	2	0	648	0.0	11.6	-11.6
3	765 kV	SOLAPUR-RAICHUR	2	1708	1468	8.4	0.0	8.4
4	765 kV	WARDHA-NIZAMABAD	2	240	1632	0.0	12.9	-12.9
5	400 kV	KOLHAPUR-KUDGI	2	849	0	14.9	0.0	14.9
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	76	1.5	0.0	1.5
					WR-SR	24.8	38.3	-13.6

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)	773	0	680	16.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1150	1060	1064	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	352	0	327	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	56	45	-52	-1.2
	NER	132kV Motanga-Rangia	63	29	-54	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-0.2
	ER	132KV-BIHAR - NEPAL	-11	0	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-100	-2	-37	-0.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-946	-923	-928	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	87	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	87	0	-75	-1.8