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: 07th 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 06.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th 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: 07-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)	55391	43710	34800	21600	2643	158144
Peak Shortage (MW)	153	0	0	0	137	290
Energy Met (MU)	1173	1058	882	469	49	3631
Hydro Gen (MU)	333	86	87	145	24	675
Wind Gen (MU)	7	31	68	-	-	106
Solar Gen (MU)*	34.92	27.18	96.91	4.48	0.07	164
Energy Shortage (MU)	0.4	0.0	0.0	0.0	2.1	2.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56390	44770	41120	22015	2687	158274
Time Of Maximum Demand Met (From NLDC SCADA)	20:29	11:21	09:55	22:52	18:57	19:44

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	1.04	1.04	79.02	19.94

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	8850	0	190.5	135.1	-2.0	53	0.0
	Haryana	7789	0	162.4	123.9	1.9	282	0.0
	Rajasthan	8334	0	173.1	73.2	-4.0	204	0.0
	Delhi	4932	0	96.3	83.3	0.0	114	0.0
	UP	22266	0	438.6	211.9	1.3	396	0.4
	Uttarakhand	1695	0	37.7	16.3	-0.6	132	0.0
	HP	1259	0	27.9	-4.1	-1.4	45	0.0
	J&K(UT) & Ladakh(UT)	2231	0	41.9	25.0	-1.4	191	0.0
	Chandigarh	245	0	4.9	5.1	-0.2	18	0.0
WR	Chhattisgarh	3825	0	90.5	40.9	-0.9	344	0.0
	Gujarat	12988	0	293.6	84.9	1.2	552	0.0
	MP	9284	0	210.0	118.8	-0.4	495	0.0
	Maharashtra	19043	0	415.0	187.8	-2.8	559	0.0
	Goa	406	0	8.8	8.3	-0.1	29	0.0
	DD	284	0	6.3	6.3	0.0	60	0.0
	DNH	723	0	16.9	16.9	0.0	41	0.0
	AMNSIL	772	0	17.1	2.9	-0.1	252	0.0
SR	Andhra Pradesh	8782	0	184.7	72.8	0.1	445	0.0
	Telangana	10621	0	217.2	88.1	-0.2	969	0.0
	Karnataka	7931	0	158.7	70.4	0.6	590	0.0
	Kerala	2658	0	58.5	45.6	-0.1	210	0.0
	Tamil Nadu	11343	0	255.4	131.5	-3.8	225	0.0
	Puducherry	352	0	7.6	7.7	-0.2	20	0.0
ER	Bihar	5643	0	122.0	116.9	-1.3	402	0.0
	DVC	3053	0	64.1	-29.3	0.5	249	0.0
	Jharkhand	1489	0	28.8	22.2	-0.9	114	0.0
	Odisha	4139	0	87.1	19.8	0.7	312	0.0
	West Bengal	8261	0	165.6	48.4	1.7	444	0.0
	Sikkim	79	0	1.0	1.1	-0.1	21	0.0
NER	Arunachal Pradesh	103	1	2.2	2.5	-0.4	0	0.0
	Assam	1710	8	30.1	25.7	0.8	183	2.0
	Manipur	190	2	2.5	2.6	-0.1	37	0.0
	Meghalaya	308	0	5.4	1.4	-0.4	65	0.0
	Mizoram	86	2	1.5	1.2	0.1	23	0.0
	Nagaland	124	1	2.3	2.5	-0.3	6	0.0
	Tripura	303	4	5.3	6.3	-0.1	53	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.2	-2.3	-26.2
Day Peak (MW)	2435.0	-191.7	-1133.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	275.9	-295.8	95.1	-75.3	0.1	0.0
Actual(MU)	257.8	-287.0	100.8	-78.2	-1.9	-8.5
O/D/U/D(MU)	-18.1	8.8	5.7	-3.0	-2.0	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5299	12053	9752	2665	675	30445
State Sector	10679	20752	12862	5425	11	49729
Total	15978	32805	22614	8090	686	80173

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	459	1118	398	432	9	2415
Lignite	25	5	24	0	0	54
Hydro	333	86	87	145	24	675
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	29	75	16	0	25	146
RES (Wind, Solar, Biomass & Others)	61	59	196	4	0	320
Total	934	1363	791	581	57	3726
Share of RES in total generation (%)	6.56	4.31	24.76	0.76	0.12	8.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.10	12.09	44.55	25.68	41.39	29.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.055
Based on State Max Demands	1.087

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: 07-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	1000	0.0	24.4	-24.4
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.7	-4.7
3	765 kV	GAYA-VARANASI	2	8	414	0.0	5.3	-5.3
4	765 kV	SASARAM-FATEHPUR	1	252	5	3.2	0.0	3.2
5	765 kV	GAYA-BALIA	1	0	507	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	206	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	64	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	686	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	4	0	968	0.0	19.1	-19.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	382	0.0	6.8	-6.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	308	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	136	139	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	48	134	0.0	1.4	-1.4
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	1	0.0	0.0	0.0
					ER-NR	3.6	93.2	-89.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1368	0	24.1	0.0	24.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1577	0	25.2	0.0	25.2
3	765 kV	JHARSUGUDA-DURG	2	259	16	2.8	0.0	2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	220	106	0.9	0.0	0.9
5	400 kV	RANCHI-SIPAT	2	538	0	8.6	0.0	8.6
6	220 kV	BUDHIPADAR-RAIGARH	1	43	48	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	177	0	3.3	0.0	3.3
					ER-WR	64.9	0.1	64.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	37.6	-37.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2360	0.0	40.9	-40.9
4	400 kV	TALCHER-I/C	2	615	609	3.5	0.0	3.5
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	338	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	73	411	0.0	4.0	-4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	1.7	-1.7
					ER-NER	0.0	9.7	-9.7
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	1001	0.0	28.2	-28.2
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1456	0.0	28.8	-28.8
4	765 kV	GWALIOR-AGRA	2	0	2735	0.0	45.4	-45.4
5	765 kV	PHAGI-GWALIOR	2	0	1056	0.0	19.5	-19.5
6	765 kV	JABALPUR-ORAI	2	0	1037	0.0	35.7	-35.7
7	765 kV	GWALIOR-ORAI	1	372	0	7.0	0.0	7.0
8	765 kV	SATNA-ORAI	1	0	1543	0.0	31.7	-31.7
9	765 kV	CHITORGARH-BANASKANTHA	2	68	1100	0.0	10.0	-10.0
10	400 kV	ZERDA-KANKROLI	1	95	177	0.0	0.3	-0.3
11	400 kV	ZERDA -BHINMAL	1	203	150	1.4	0.0	1.4
12	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	386	0.0	4.5	-4.5
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	112	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	87	10	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	51	42	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	44.5	208.3	-163.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	938	0.0	16.2	-16.2
2	HVDC	RAIGARH-PUGALUR	2	0	1490	0.0	17.9	-17.9
3	765 kV	SOLAPUR-RAICHUR	2	1205	1648	0.0	6.7	-6.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2265	0.0	31.2	-31.2
5	400 kV	KOLHAPUR-KUDGI	2	848	0	13.5	0.0	13.5
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	86	1.6	0.0	1.6
					WR-SR	15.1	72.0	-56.9

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)	827	0	775	18.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1084	1022	1036	24.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	408	0	348	8.4
	NER	132KV-GEYLEGPHU - SALAKATI	54	41	-47	-1.1
	NER	132kV Motanga-Rangia	63	34	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-39	0	-16	-0.4
	ER	132KV-BIHAR - NEPAL	-35	0	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	188	2	-76	-1.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-949	-920	-932	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	92	0	-80	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	92	0	-80	-1.9