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: 08th 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 07.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th 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: 08-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)	58596	47040	38162	21316	2723	167837
Peak Shortage (MW)	288	0	0	0	136	424
Energy Met (MU)	1267	1072	915	460	50	3765
Hydro Gen (MU)	334	91	98	142	25	689
Wind Gen (MU)	10	41	100	-	-	151
Solar Gen (MU)*	40.64	29.74	91.01	4.48	0.06	166
Energy Shortage (MU)	0.9	0.0	0.0	0.0	3.1	4.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59746	47142	43845	21697	2820	169058
Time Of Maximum Demand Met (From NLDC SCADA)	19:41	19:18	09:51	23:10	18:09	19:38

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	0.019	0.00	0.00	2.21	2.21	86.97	10.82

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	9887	0	213.7	143.5	-1.1	109	0.0
	Haryana	8532	0	182.4	142.3	0.6	201	0.0
	Rajasthan	8938	0	193.0	69.7	-3.0	200	0.0
	Delhi	4877	0	104.2	93.6	-1.6	63	0.0
	UP	23023	0	457.2	220.1	1.7	371	0.9
	Uttarakhand	1948	0	41.3	18.5	0.9	239	0.0
	HP	1355	0	29.9	-3.3	-0.3	157	0.0
	J&K(UT) & Ladakh(UT)	1977	0	39.8	21.5	0.2	560	0.0
	Chandigarh	285	0	5.6	5.6	0.1	31	0.0
WR	Chhattisgarh	3889	0	94.0	40.5	-0.4	500	0.0
	Gujarat	14235	0	309.0	84.9	-4.6	613	0.0
	MP	9556	0	218.1	125.5	-0.2	451	0.0
	Maharashtra	18272	0	400.6	175.2	-2.8	657	0.0
	Goa	449	0	9.3	9.0	0.0	55	0.0
	DD	311	0	6.7	6.6	0.1	59	0.0
	DNH	760	0	17.3	17.2	0.1	42	0.0
	AMNSIL	780	0	16.8	1.8	0.6	272	0.0
SR	Andhra Pradesh	9523	0	191.5	86.0	2.2	1067	0.0
	Telangana	11176	0	221.3	92.3	2.1	822	0.0
	Karnataka	8430	0	165.6	74.0	2.0	608	0.0
	Kerala	3203	0	62.5	44.5	0.1	134	0.0
	Tamil Nadu	12852	0	266.5	113.8	-3.6	1165	0.0
	Puducherry	383	0	8.1	8.1	-0.1	27	0.0
ER	Bihar	5656	0	117.9	113.1	1.5	697	0.0
	DVC	2926	0	62.0	-39.8	0.4	477	0.0
	Jharkhand	1643	0	27.6	24.1	-1.3	228	0.0
	Odisha	4132	0	88.8	20.6	0.6	355	0.0
	West Bengal	8152	0	162.6	45.5	1.0	499	0.0
	Sikkim	102	0	1.2	1.2	0.0	21	0.0
NER	Arunachal Pradesh	109	1	2.1	1.9	0.1	45	0.0
	Assam	1733	105	30.8	26.3	0.2	133	3.0
	Manipur	196	2	2.6	2.6	0.1	32	0.0
	Meghalaya	308	0	5.3	0.9	-0.4	86	0.0
	Mizoram	92	1	1.7	1.2	0.1	17	0.0
	Nagaland	129	2	2.6	2.5	-0.2	7	0.0
	Tripura	320	3	5.1	6.4	0.0	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.3	-1.4	-26.8
Day Peak (MW)	2340.0	-184.7	-1130.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	300.4	-320.5	111.9	-90.5	-1.3	0.0
Actual(MU)	291.6	-318.5	113.4	-91.2	-1.5	-6.1
O/D/U/D(MU)	-8.8	2.0	1.6	-0.7	-0.1	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4384	11913	9452	2315	675	28740
State Sector	10729	20115	13442	6335	11	50632
Total	15113	32028	22894	8650	686	79371

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	516	1148	391	433	7	2494
Lignite	23	6	20	0	0	49
Hydro	334	91	98	142	25	689
Nuclear	27	21	69	0	0	116
Gas, Naptha & Diesel	32	76	16	0	26	150
RES (Wind, Solar, Biomass & Others)	68	71	224	5	0	368
Total	999	1412	818	579	57	3867
Share of RES in total generation (%)	6.85	5.04	27.36	0.78	0.10	9.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.89	12.96	47.79	25.24	43.04	30.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.066

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: 08-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	23.7	-23.7
2	HVDC	PUSAULI B/B	-	1	199	0.0	4.8	-4.8
3	765 kV	GAYA-VARANASI	2	0	572	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	267	128	2.3	0.0	2.3
5	765 kV	GAYA-BALIA	1	0	527	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	197	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	41	74	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	13.6	-13.6
9	400 kV	PATNA-BALIA	4	0	919	0.0	16.3	-16.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	431	0.0	6.6	-6.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	88	177	0.0	0.3	-0.3
13	220 kV	PUSAULI-SAHUPURI	1	0	138	0.0	2.4	-2.4
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	0	0.0	0.0	0.0
					ER-NR	2.6	94.5	-91.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1395	0	23.9	0.0	23.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1420	0	23.1	0.0	23.1
3	765 kV	JHARSUGUDA-DURG	2	260	27	2.7	0.0	2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	201	213	0.6	0.0	0.6
5	400 kV	RANCHI-SIPAT	2	478	0	7.8	0.0	7.8
6	220 kV	BUDHIPADAR-RAIGARH	1	28	63	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	171	0	2.5	0.0	2.5
					ER-WR	60.7	0.3	60.4
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	1984	0.0	35.3	-35.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2437	0.0	44.5	-44.5
4	400 kV	TALCHER-I/C	2	564	942	0.7	0.0	0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	88.6	-88.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	356	0.0	3.9	-3.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	442	0.0	4.0	-4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	121	0.0	1.6	-1.6
					ER-NER	0.0	9.5	-9.5
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	1009	0.0	41.3	-41.3
2	HVDC	VINDHYACHAL B/B	-	449	155	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	37.7	-37.7
4	765 kV	GWALIOR-AGRA	2	0	2547	0.0	47.1	-47.1
5	765 kV	PHAGI-GWALIOR	2	0	1260	0.0	22.2	-22.2
6	765 kV	JABALPUR-ORAI	2	0	1013	0.0	36.9	-36.9
7	765 kV	GWALIOR-ORAI	1	390	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	1509	0.0	33.2	-33.2
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1041	0.0	11.5	-11.5
10	400 kV	ZERDA-KANKROLI	1	88	228	0.0	0.5	-0.5
11	400 kV	ZERDA -BHINMAL	1	1	168	0.0	0.4	-0.4
12	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	29	396	0.0	4.3	-4.3
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	0	97	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	91	0	0.4	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	51	12	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	43.8	238.2	-194.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	935	0.0	16.4	-16.4
2	HVDC	RAIGARH-PUGALUR	2	0	996	0.0	5.8	-5.8
3	765 kV	SOLAPUR-RAICHUR	2	517	2008	0.0	20.6	-20.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2495	0.0	35.7	-35.7
5	400 kV	KOLHAPUR-KUDGI	2	899	0	14.8	0.0	14.8
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	88	1.6	0.0	1.6
					WR-SR	16.4	78.5	-62.1

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	731	17.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1091	0	1061	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	351	0	328	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	60	46	-53	-1.3
	NER	132kV Motanga-Rangia	59	26	-48	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	-36	0	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-88	2	-33	-0.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-946	-936	-946	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	92	0	-82	-2.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	92	0	-82	-2.0