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: 02nd 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 01.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-सितम्बर-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 01st 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:** **02-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)	58040	42270	37931	20920	2919	162080
Peak Shortage (MW)	340	0	0	0	9	349
Energy Met (MU)	1251	968	929	460	51	3659
Hydro Gen (MU)	357	99	86	137	18	696
Wind Gen (MU)	19	62	41	-	-	121
Solar Gen (MU)*	26.73	27.39	90.29	4.41	0.08	149
Energy Shortage (MU)	0.2	0.0	0.0	0.0	0.1	0.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58985	42686	44170	22582	2977	162837
Time Of Maximum Demand Met (From NLDC SCADA)	20:56	19:21	09:26	00:01	18:49	19:24

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	0.027	0.00	0.00	5.35	5.35	83.42	11.24

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	10224	0	226.3	142.7	-0.8	107	0.0
	Haryana	8413	0	185.2	165.0	1.8	231	0.0
	Rajasthan	8295	0	180.8	63.6	-3.2	283	0.0
	Delhi	4785	0	97.5	85.3	-0.9	42	0.0
	UP	22661	0	439.9	195.5	0.8	771	0.2
	Uttarakhand	1912	0	41.6	15.2	1.0	131	0.0
	HP	1375	0	30.8	-4.4	-1.7	0	0.0
	J&K(UT) & Ladakh(UT)	2301	0	43.2	25.7	0.1	229	0.0
	Chandigarh	270	0	5.5	5.5	0.0	19	0.0
WR	Chhattisgarh	3769	0	87.6	36.5	0.9	456	0.0
	Gujarat	11728	0	261.4	58.5	0.4	616	0.0
	MP	8491	0	188.6	117.5	-0.6	578	0.0
	Maharashtra	17527	0	382.3	150.3	0.3	816	0.0
	Goa	433	0	10.2	8.5	1.1	55	0.0
	DD	281	0	6.3	6.3	0.0	128	0.0
	DNH	708	0	16.3	16.3	0.0	176	0.0
	AMNSIL	749	0	14.8	1.4	0.1	242	0.0
SR	Andhra Pradesh	8420	0	178.5	86.4	0.1	788	0.0
	Telangana	10670	0	209.2	91.3	0.3	635	0.0
	Karnataka	9137	0	179.2	79.1	-0.6	435	0.0
	Kerala	3170	0	65.6	51.4	0.0	185	0.0
	Tamil Nadu	13318	0	289.0	157.2	-1.4	491	0.0
	Puducherry	351	0	7.7	8.2	-0.5	20	0.0
ER	Bihar	5984	0	120.1	119.4	0.3	449	0.0
	DVC	2995	0	64.1	-41.0	-0.5	203	0.0
	Jharkhand	1459	0	28.8	21.0	-1.6	139	0.0
	Odisha	4064	0	86.4	3.9	-1.5	303	0.0
	West Bengal	8518	0	159.6	41.6	0.4	500	0.0
	Sikkim	90	0	1.1	1.2	-0.1	15	0.0
NER	Arunachal Pradesh	118	1	2.2	2.0	0.2	50	0.0
	Assam	1925	20	32.5	30.0	0.8	180	0.0
	Manipur	179	1	2.5	2.4	0.1	34	0.0
	Meghalaya	303	0	5.2	0.5	-0.2	44	0.0
	Mizoram	97	2	1.7	1.1	0.4	25	0.1
	Nagaland	129	1	2.3	2.4	-0.3	10	0.0
	Tripura	273	2	4.7	5.6	0.0	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.1	-3.1	-26.8
Day Peak (MW)	2178.0	-330.8	-1152.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	287.8	-320.0	129.0	-101.5	4.7	0.0
Actual(MU)	275.8	-327.8	140.7	-100.5	6.4	-5.5
O/D/U/D(MU)	-12.0	-7.9	11.7	1.0	1.6	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6209	16903	7902	3305	546	34865
State Sector	11939	26048	12592	4305	11	54895
Total	18148	42951	20494	7610	557	89760

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	490	1017	446	463	7	2424
Lignite	25	7	25	0	0	57
Hydro	356	99	86	137	18	696
Nuclear	27	33	69	0	0	128
Gas, Naptha & Diesel	31	73	16	0	26	146
RES (Wind, Solar, Biomass & Others)	66	90	161	4	0	322
Total	995	1319	802	604	51	3772
Share of RES in total generation (%)	6.65	6.83	20.08	0.74	0.16	8.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.16	16.82	39.33	23.33	35.30	30.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.075

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: 02-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	1099	0.0	25.9	-25.9
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.9	-4.9
3	765 kV	GAYA-VARANASI	2	42	590	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	1	274	43	2.2	0.0	2.2
5	765 kV	GAYA-BALIA	1	0	521	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	30	49	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	704	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	4	0	850	0.0	14.0	-14.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	339	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	342	0.0	5.9	-5.9
12	400 kV	BIHARSHARIFF-VARANASI	2	191	103	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	1	21	92	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	0	0.0	0.0	0.0
					ER-NR	3.3	85.8	-82.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1349	0	23.0	0.0	23.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1157	0	15.5	0.0	15.5
3	765 kV	JHARSUGUDA-DURG	2	328	69	3.0	0.0	3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	266	112	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	2	441	0	5.8	0.0	5.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	95	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	152	0	1.9	0.0	1.9
					ER-WR	50.3	1.4	48.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	377	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2542	0.0	45.0	-45.0
4	400 kV	TALCHER-I/C	2	568	304	2.0	0.0	2.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	93.3	-93.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	545	0.0	8.3	-8.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	648	0.0	7.7	-7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	163	0.0	2.4	-2.4
					ER-NER	0.0	18.3	-18.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.3	-14.3
					NER-NR	0.0	14.3	-14.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2500	0.0	37.9	-37.9
2	HVDC	VINDHYACHAL B/B	-	183	206	0.6	2.3	-1.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	20.1	-20.1
4	765 kV	GWALIOR-AGRA	2	0	2444	0.0	45.3	-45.3
5	765 kV	PHAGI-GWALIOR	2	0	1369	0.0	24.5	-24.5
6	765 kV	JABALPUR-ORAI	2	0	1831	0.0	34.5	-34.5
7	765 kV	GWALIOR-ORAI	1	415	0	8.5	0.0	8.5
8	765 kV	SATNA-ORAI	1	0	1503	0.0	32.1	-32.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1156	0.0	18.1	-18.1
10	400 kV	ZERDA-KANKROLI	1	38	170	0.1	1.9	-1.8
11	400 kV	ZERDA -BHINMAL	1	252	133	1.3	0.8	0.5
12	400 kV	VINDHYACHAL -RIHAND	1	994	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	133	340	0.2	4.1	-3.9
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	0.9	-0.9
15	220 kV	BHANPURA-MORAK	1	0	104	0.0	1.1	-1.1
16	220 kV	MEHGAON-AURAIYA	1	99	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	64	16	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	34.8	223.6	-188.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	935	0.0	14.2	-14.2
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	20.5	-20.5
3	765 kV	SOLAPUR-RAICHUR	2	265	2163	0.2	25.3	-25.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2541	0.0	39.2	-39.2
5	400 kV	KOLHAPUR-KUDGI	2	661	0	8.0	0.0	8.0
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	9.8	99.2	-89.4

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)	653	389	427	10.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1023	0	963	23.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	379	0	323	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	54	0	-24	-0.6
	NER	132kV Motanga-Rangia	70	9	-57	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-60	0	-38	-0.9
	ER	132KV-BIHAR - NEPAL	-85	-1	-26	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-186	-4	-65	-1.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-979	-933	-973	-23.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-73	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	87	0	-73	-1.8