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: 06th 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 05.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	55027	46364	39091	22282	2719	165483
Peak Shortage (MW)	368	0	0	0	254	622
Energy Met (MU)	1249	1079	923	486	54	3791
Hydro Gen (MU)	332	116	104	136	19	706
Wind Gen (MU)	2	17	25	-	-	44
Solar Gen (MU)*	24.76	28.69	96.12	4.55	0.05	154
Energy Shortage (MU)	0.0	0.0	0.0	0.0	1.1	1.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56317	46427	42446	22623	2714	165564
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:50	11:46	00:00	18:54	19:40

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	1.19	1.19	81.63	17.17

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	8948	0	194.7	133.8	-2.7	33	0.0
	Haryana	9231	0	185.7	150.3	-0.9	285	0.0
	Rajasthan	8406	0	185.8	75.3	-2.4	598	0.0
	Delhi	5151	0	104.4	92.2	-1.1	195	0.0
	UP	22163	0	455.9	214.4	-1.4	522	0.0
	Uttarakhand	1895	0	42.3	18.8	0.2	131	0.0
	HP	1405	33	31.3	-2.8	-0.3	122	0.0
	J&K(UT) & Ladakh(UT)	2330	0	43.5	24.5	0.7	248	0.0
	Chandigarh	268	0	5.6	5.4	0.2	28	0.0
WR	Chhattisgarh	3775	0	89.9	42.8	-1.0	254	0.0
	Gujarat	13789	0	305.3	76.5	0.2	477	0.0
	MP	9149	0	208.5	121.6	-2.0	575	0.0
	Maharashtra	19326	0	425.1	178.9	-1.6	501	0.0
	Goa	442	0	9.5	9.0	-0.1	67	0.0
	DD	312	0	6.9	6.7	0.2	45	0.0
	DNH	746	0	17.2	17.1	0.1	45	0.0
	AMNSIL	760	0	16.7	2.1	0.1	261	0.0
SR	Andhra Pradesh	8600	0	182.6	72.3	0.7	1119	0.0
	Telangana	10858	0	217.4	92.5	-0.4	655	0.0
	Karnataka	8226	0	167.5	72.4	0.1	583	0.0
	Kerala	3340	0	68.9	54.2	0.1	179	0.0
	Tamil Nadu	13415	0	278.4	161.7	-1.0	486	0.0
	Puducherry	375	0	8.0	8.4	-0.4	41	0.0
ER	Bihar	5704	0	124.7	117.0	1.2	270	0.0
	DVC	2982	0	64.4	-40.4	-0.4	395	0.0
	Jharkhand	1582	0	29.0	21.2	-1.4	180	0.0
	Odisha	4272	0	87.8	16.6	-0.3	285	0.0
	West Bengal	8602	0	178.5	52.4	1.5	345	0.0
	Sikkim	93	0	1.1	1.2	-0.1	30	0.0
NER	Arunachal Pradesh	104	1	2.1	1.9	0.2	48	0.0
	Assam	1728	0	34.5	30.1	0.9	139	1.0
	Manipur	198	0	2.5	2.7	-0.1	27	0.0
	Meghalaya	312	0	5.5	0.5	0.0	71	0.0
	Mizoram	88	3	1.6	1.1	0.3	21	0.0
	Nagaland	127	2	2.3	2.5	-0.4	13	0.0
	Tripura	295	2	5.7	5.4	0.5	85	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.9	-2.3	-25.9
Day Peak (MW)	2224.0	-285.1	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	316.6	-326.4	106.4	-102.8	6.3	0.0
Actual(MU)	309.2	-332.4	119.5	-107.0	10.8	0.2
O/D/U/D(MU)	-7.3	-6.0	13.1	-4.1	4.5	0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5509	11853	9152	2665	275	29455
State Sector	11089	21358	12442	4825	11	49725
Total	16598	33211	21594	7490	286	79179

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	493	1163	450	485	10	2601
Lignite	26	5	25	0	0	56
Hydro	332	116	104	136	19	706
Nuclear	26	24	69	0	0	119
Gas, Naptha & Diesel	32	83	16	0	21	152
RES (Wind, Solar, Biomass & Others)	51	46	153	5	0	254
Total	961	1437	816	625	50	3888
Share of RES in total generation (%)	5.30	3.22	18.70	0.73	0.10	6.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.66	12.90	39.86	22.43	37.66	27.76

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.081

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: 06-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	999	0.0	24.3	-24.3
2	HVDC	PUSAULI B/B	-	0	198	0.0	5.0	-5.0
3	765 kV	GAYA-VARANASI	2	0	628	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	203	95	1.5	0.0	1.5
5	765 kV	GAYA-BALIA	1	0	526	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	75	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	11.8	-11.8
9	400 kV	PATNA-BALIA	4	0	927	0.0	17.6	-17.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	400	0.0	5.3	-5.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	310	0.0	6.7	-6.7
12	400 kV	BIHARSHARIFF-VARANASI	2	119	162	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	12	97	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.2	0.0	0.2
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	1.7	94.7	-93.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1227	0	14.6	0.0	14.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1339	0	22.6	0.0	22.6
3	765 kV	JHARSUGUDA-DURG	2	300	31	2.5	0.0	2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	226	270	0.0	0.7	-0.7
5	400 kV	RANCHI-SIPAT	2	526	0	7.2	0.0	7.2
6	220 kV	BUDHIPADAR-RAIGARH	1	37	57	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	171	0	2.7	0.0	2.7
					ER-WR	49.6	1.1	48.5
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	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2198	0.0	37.9	-37.9
4	400 kV	TALCHER-I/C	2	176	0	2.4	0.0	2.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	86.2	-86.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	513	0.0	8.9	-8.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	632	0.0	9.7	-9.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	154	0.0	2.5	-2.5
					ER-NER	0.0	21.1	-21.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	555	0.0	13.3	-13.3
					NER-NR	0.0	13.3	-13.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	34.8	-34.8
2	HVDC	VINDHYACHAL B/B	-	450	400	8.3	2.9	5.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	29.3	-29.3
4	765 kV	GWALIOR-AGRA	2	0	2641	0.0	50.5	-50.5
5	765 kV	PHAGI-GWALIOR	2	0	1363	0.0	24.5	-24.5
6	765 kV	JABALPUR-ORAI	2	0	1013	0.0	41.8	-41.8
7	765 kV	GWALIOR-ORAI	1	399	0	7.9	0.0	7.9
8	765 kV	SATNA-ORAI	1	0	1526	0.0	32.0	-32.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1208	0.0	18.2	-18.2
10	400 kV	ZERDA-KANKROLI	1	0	202	0.0	2.4	-2.4
11	400 kV	ZERDA -BHINMAL	1	82	204	0.0	1.9	-1.9
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	397	0.0	6.5	-6.5
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	0	138	0.0	2.2	-2.2
16	220 kV	MEHGAON-AURAIYA	1	91	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	54	19	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	40.0	249.1	-209.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	945	0.0	19.9	-19.9
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	32.5	-32.5
3	765 kV	SOLAPUR-RAICHUR	2	1126	1797	0.0	9.2	-9.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1938	0.0	27.9	-27.9
5	400 kV	KOLHAPUR-KUDGI	2	792	0	13.6	0.0	13.6
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	1	88	1.5	0.0	1.5
					WR-SR	15.1	89.5	-74.4

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)	865	627	701	16.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1079	920	943	22.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	408	0	301	7.2
	NER	132KV-GEYLEGPHU - SALAKATI	-59	-5	-41	-1.0
	NER	132kV Motanga-Rangia	-69	-28	-52	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-42	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	-61	-1	-12	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-8	-64	-1.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-927	-920	-927	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	91	0	-81	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	91	0	-71	-1.7