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: 05th 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 04.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	56976	45981	38490	22808	2911	167166
Peak Shortage (MW)	738	0	0	0	143	881
Energy Met (MU)	1269	1053	915	488	57	3781
Hydro Gen (MU)	348	109	103	139	19	717
Wind Gen (MU)	4	12	22	-	-	38
Solar Gen (MU)*	24.47	29.30	92.63	4.81	0.08	151
Energy Shortage (MU)	1.2	0.0	0.0	0.0	1.1	2.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58264	46171	43285	23464	2989	167271
Time Of Maximum Demand Met (From NLDC SCADA)	21:41	19:19	10:32	21:05	18:35	19:34

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	0.026	0.00	0.67	2.55	3.22	83.73	13.05

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	8800	0	201.3	133.6	-2.4	73	0.0
	Haryana	8881	0	196.4	155.5	-0.1	142	0.0
	Rajasthan	8539	0	185.8	74.1	-2.4	566	0.0
	Delhi	5294	0	110.7	97.0	0.3	248	0.0
	UP	22549	0	451.6	204.4	1.0	592	0.6
	Uttarakhand	1948	0	42.9	18.5	1.4	159	0.6
	HP	1418	33	31.4	-3.5	-0.3	58	0.0
	J&K(UT) & Ladakh(UT)	2218	0	43.2	26.4	-1.7	229	0.0
	Chandigarh	276	0	5.7	5.8	-0.1	24	0.0
WR	Chhattisgarh	3875	0	89.6	38.3	-0.7	222	0.0
	Gujarat	13241	0	294.7	77.3	0.1	953	0.0
	MP	8893	0	201.6	116.8	-0.3	537	0.0
	Maharashtra	18887	0	417.5	175.9	-3.0	475	0.0
	Goa	431	0	9.4	8.8	0.0	52	0.0
	DD	310	0	6.8	6.7	0.1	154	0.0
	DNH	747	0	17.1	17.1	0.0	38	0.0
	AMNSIL	717	0	15.8	2.0	0.0	247	0.0
SR	Andhra Pradesh	8266	0	177.8	75.0	0.7	463	0.0
	Telangana	11014	0	210.9	87.6	0.8	938	0.0
	Karnataka	8424	0	164.5	69.1	1.6	688	0.0
	Kerala	3348	0	69.5	51.9	0.2	183	0.0
	Tamil Nadu	13190	0	284.4	151.1	1.2	646	0.0
	Puducherry	372	0	8.0	8.2	-0.2	21	0.0
ER	Bihar	5721	0	121.5	115.4	0.6	261	0.0
	DVC	3069	0	65.7	-41.4	0.6	355	0.0
	Jharkhand	1609	0	28.7	21.6	-1.8	180	0.0
	Odisha	4516	0	94.8	16.2	-0.5	135	0.0
	West Bengal	8899	0	175.9	48.1	1.7	515	0.0
	Sikkim	91	0	1.2	1.4	-0.3	15	0.0
NER	Arunachal Pradesh	115	1	2.1	2.0	0.1	33	0.0
	Assam	1920	125	36.8	33.2	-0.1	110	1.0
	Manipur	199	1	2.8	2.5	0.3	33	0.0
	Meghalaya	302	0	5.5	0.6	-0.1	48	0.0
	Mizoram	96	1	1.6	1.1	0.2	13	0.0
	Nagaland	128	1	2.3	2.4	-0.2	20	0.0
	Tripura	317	0	5.5	4.9	0.5	26	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.7	-3.1	-25.1
Day Peak (MW)	2012.0	-328.8	-1103.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	310.9	-322.0	100.8	-99.8	10.1	0.0
Actual(MU)	305.8	-332.8	118.6	-111.3	12.5	-7.3
O/D/U/D(MU)	-5.0	-10.8	17.7	-11.5	2.4	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6209	14393	9152	2665	659	33079
State Sector	10579	22058	12504	4655	11	49807
Total	16788	36451	21656	7320	671	82886

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	496	1123	461	483	12	2575
Lignite	28	6	24	0	0	58
Hydro	348	109	103	139	19	717
Nuclear	26	33	61	0	0	120
Gas, Naptha & Diesel	34	86	15	0	20	154
RES (Wind, Solar, Biomass & Others)	49	42	146	5	0	242
Total	981	1397	810	627	50	3866
Share of RES in total generation (%)	5.02	3.00	17.98	0.77	0.16	6.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.15	13.10	38.23	22.99	37.01	27.91

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.068

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: 05-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	1098	0.0	25.5	-25.5
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.8	-4.8
3	765 kV	GAYA-VARANASI	2	0	561	0.0	8.8	-8.8
4	765 kV	SASARAM-FATEHPUR	1	157	87	0.6	0.0	0.6
5	765 kV	GAYA-BALIA	1	0	517	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	192	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	58	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	719	0.0	12.0	-12.0
9	400 kV	PATNA-BALIA	4	0	805	0.0	16.4	-16.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	354	0.0	5.3	-5.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	355	0.0	6.5	-6.5
12	400 kV	BIHARSHARIFF-VARANASI	2	61	139	0.0	0.6	-0.6
13	220 kV	PUSAULI-SAHUPURI	1	14	85	0.0	0.9	-0.9
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	0.9	94.1	-93.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1265	0	18.8	0.0	18.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1265	0	19.3	0.0	19.3
3	765 kV	JHARSUGUDA-DURG	2	321	0	2.8	0.0	2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	249	157	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	515	0	6.6	0.0	6.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	86	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	147	0	2.2	0.0	2.2
					ER-WR	50.6	1.2	49.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	529	0.0	10.3	-10.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	39.3	-39.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2286	0.0	37.8	-37.8
4	400 kV	TALCHER-I/C	2	305	394	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	87.4	-87.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	633	0.0	10.6	-10.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	650	0.0	10.2	-10.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	161	0.0	2.9	-2.9
					ER-NER	0.0	23.6	-23.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	554	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	1251	0.0	33.2	-33.2
2	HVDC	VINDHYACHAL B/B	-	0	401	0.0	7.4	-7.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	27.4	-27.4
4	765 kV	GWALIOR-AGRA	2	0	2857	0.0	48.4	-48.4
5	765 kV	PHAGI-GWALIOR	2	0	1326	0.0	24.3	-24.3
6	765 kV	JABALPUR-ORAI	2	0	1111	0.0	39.1	-39.1
7	765 kV	GWALIOR-ORAI	1	408	0	8.3	0.0	8.3
8	765 kV	SATNA-ORAI	1	0	1431	0.0	28.9	-28.9
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1175	0.0	17.7	-17.7
10	400 kV	ZERDA-KANKROLI	1	11	202	0.0	2.1	-2.1
11	400 kV	ZERDA -BHINMAL	1	95	212	0.0	1.4	-1.4
12	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	402	0.0	6.1	-6.1
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	0	130	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	91	0	0.4	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	54	17	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	32.4	239.5	-207.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	924	0.0	17.2	-17.2
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	30.3	-30.3
3	765 kV	SOLAPUR-RAICHUR	2	728	1674	0.0	11.5	-11.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2355	0.0	31.2	-31.2
5	400 kV	KOLHAPUR-KUDGI	2	786	0	13.0	0.0	13.0
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	88	1.6	0.0	1.6
					WR-SR	14.6	90.2	-75.7

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)	709	592	609	14.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1072	0	942	22.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	349	0	331	8.0
	NER	132KV-GEYLEGPHU - SALAKATI	-54	0	-49	-1.2
	NER	132kV Motanga-Rangia	-64	-30	-57	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-42	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-97	-1	-53	-1.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-190	-4	-59	-1.4
	ER	BHERAMARA HVDC(BANGLADESH)	-930	0	-897	-21.5

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	87	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-75	-1.8