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: 20th Aug 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 19.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अगस्त-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 19th August 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:** **20-Aug-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)	53128	40781	37207	21346	2880	155342
Peak Shortage (MW)	100	0	0	0	117	217
Energy Met (MU)	1201	914	855	456	54	3479
Hydro Gen (MU)	330	36	136	142	25	670
Wind Gen (MU)	42	124	143	-	-	309
Solar Gen (MU)*	36.15	13.48	59.02	4.48	0.08	113
Energy Shortage (MU)	0.3	0.0	0.0	0.0	4.2	4.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58067	40537	40352	20981	2855	155565
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:37	09:40	23:41	19:03	19:47

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	0.01	5.27	5.28	82.96	11.76

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	11089	0	238.6	141.0	-1.4	136	0.0
	Haryana	8475	0	164.7	158.4	-3.1	170	0.0
	Rajasthan	9975	0	216.7	67.2	-6.2	482	0.0
	Delhi	4829	0	95.5	85.2	-2.5	120	0.0
	UP	20354	0	369.5	179.1	-0.8	530	0.3
	Uttarakhand	1702	0	38.1	20.1	0.8	266	0.0
	HP	1411	0	30.1	-4.1	-0.4	46	0.0
	J&K(UT) & Ladakh(UT)	2156	0	42.5	16.7	0.1	302	0.0
	Chandigarh	278	0	5.4	5.7	-0.3	23	0.0
WR	Chhattisgarh	3479	0	83.6	25.6	-0.4	321	0.0
	Gujarat	11578	0	251.3	72.5	-2.6	552	0.0
	MP	8193	0	183.7	117.3	-2.5	279	0.0
	Maharashtra	16622	0	348.1	130.6	-0.8	562	0.0
	Goa	412	0	8.9	8.4	-0.2	47	0.0
	DD	281	0	6.1	5.9	0.2	30	0.0
	DNH	670	0	15.1	15.3	-0.2	61	0.0
	AMNSIL	760	0	17.5	1.5	0.1	238	0.0
SR	Andhra Pradesh	7945	0	164.2	37.5	1.1	736	0.0
	Telangana	7527	0	152.2	73.8	-0.8	548	0.0
	Karnataka	8025	0	154.2	41.5	0.1	691	0.0
	Kerala	3234	0	65.8	44.6	0.4	155	0.0
	Tamil Nadu	13708	0	310.3	121.6	-3.5	324	0.0
	Puducherry	385	0	7.9	8.0	-0.1	61	0.0
ER	Bihar	5835	0	117.2	111.2	-0.6	260	0.0
	DVC	2890	0	64.5	-35.6	0.1	243	0.0
	Jharkhand	1407	0	28.7	21.4	-1.2	135	0.0
	Odisha	4433	0	89.7	9.1	-0.3	219	0.0
	West Bengal	7294	0	155.4	51.3	1.1	341	0.0
	Sikkim	64	0	0.7	1.0	-0.4	10	0.0
NER	Arunachal Pradesh	117	1	1.9	1.6	0.3	35	0.0
	Assam	1879	96	34.7	30.9	0.3	158	4.1
	Manipur	188	1	2.8	2.5	0.4	25	0.0
	Meghalaya	314	0	5.4	0.0	0.0	52	0.0
	Mizoram	89	1	1.7	1.3	0.1	36	0.0
	Nagaland	127	1	2.4	2.5	-0.2	12	0.0
	Tripura	275	2	4.7	6.0	-0.1	25	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.8	-3.7	-26.0
Day Peak (MW)	2275.0	-193.4	-1086.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	291.6	-282.1	75.9	-86.2	0.8	0.0
Actual(MU)	269.3	-283.7	79.7	-72.9	3.0	-4.6
O/D/U/D(MU)	-22.3	-1.7	3.9	13.3	2.2	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5839	15008	10662	3265	610	35384
State Sector	13424	26003	14892	4927	47	59293
Total	19263	41011	25554	8192	656	94676

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	448	933	318	419	7	2126
Lignite	23	12	22	0	0	57
Hydro	330	36	136	142	25	670
Nuclear	21	32	47	0	0	100
Gas, Naptha & Diesel	39	65	13	0	24	141
RES (Wind, Solar, Biomass & Others)	99	141	249	5	0	493
Total	959	1219	786	566	56	3587
Share of RES in total generation (%)	10.29	11.53	31.66	0.80	0.14	13.74
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.88	17.12	55.01	25.94	44.58	35.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.080

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: 20-Aug-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	901	0.0	19.6	-19.6
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.9	-4.9
3	765 kV	GAYA-VARANASI	2	0	451	0.0	5.9	-5.9
4	765 kV	SASARAM-FATEHPUR	1	265	0	4.6	0.0	4.6
5	765 kV	GAYA-BALIA	1	0	456	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	64	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	596	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	4	0	733	0.0	10.5	-10.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	272	0.0	3.4	-3.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	4.7	-4.7
12	400 kV	BIHARSHARIFF-VARANASI	2	172	64	1.5	0.0	1.5
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.6	-2.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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	6.5	73.8	-67.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1172	0	14.1	0.0	14.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1363	0	24.2	0.0	24.2
3	765 kV	JHARSUGUDA-DURG	2	97	127	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	237	139	2.5	0.0	2.5
5	400 kV	RANCHI-SIPAT	2	491	0	8.2	0.0	8.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	114	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	124	0	1.9	0.0	1.9
					ER-WR	51.2	1.7	49.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	227	0.0	5.0	-5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1727	0.0	34.0	-34.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2431	0.0	41.2	-41.2
4	400 kV	TALCHER-I/C	2	672	645	3.3	0.0	3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	80.3	-80.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	404	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	610	0.0	6.1	-6.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	139	0.0	2.2	-2.2
					ER-NER	0.0	14.5	-14.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.4	-14.4
					NER-NR	0.0	14.4	-14.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1249	0.0	36.9	-36.9
2	HVDC	VINDHYACHAL B/B	-	93	105	0.2	1.4	-1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	33.5	-33.5
4	765 kV	GWALIOR-AGRA	2	0	2716	0.0	46.8	-46.8
5	765 kV	PHAGI-GWALIOR	2	0	1321	0.0	23.1	-23.1
6	765 kV	JABALPUR-ORAI	2	0	1046	0.0	37.2	-37.2
7	765 kV	GWALIOR-ORAI	1	441	0	8.1	0.0	8.1
8	765 kV	SATNA-ORAI	1	0	1482	0.0	30.1	-30.1
9	765 kV	CHITORGARH-BANASKANTHA	2	41	956	0.0	11.6	-11.6
10	400 kV	ZERDA-KANKROLI	1	126	101	0.0	0.3	-0.3
11	400 kV	ZERDA -BHINMAL	1	301	81	2.2	0.0	2.2
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	468	0.0	5.8	-5.8
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	99	0.0	1.5	-1.5
16	220 kV	MEHGAON-AURAIYA	1	103	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	66	23	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	34.1	229.6	-195.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	258	0.0	6.1	-6.1
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	491	1685	0.0	13.1	-13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2043	0.0	31.2	-31.2
5	400 kV	KOLHAPUR-KUDGI	2	936	0	0.0	10.9	-10.9
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	87	1.6	0.0	1.6
					WR-SR	1.6	61.3	-59.7

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)	779	0	725	17.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1033	1015	1033	26.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	364	0	323	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	-64	-37	-53	-1.3
	NER	132kV Motanga-Rangia	-67	-44	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-56	0	-41	-1.0
	ER	132KV-BIHAR - NEPAL	-71	56	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	208	24	-109	-2.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	940	938	940	-22.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-65	-1.6