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: 19th 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 18.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	58685	40088	36581	21574	2832	159760
Peak Shortage (MW)	0	0	0	0	102	102
Energy Met (MU)	1352	925	827	469	52	3625
Hydro Gen (MU)	345	35	121	139	28	668
Wind Gen (MU)	24	98	165	-	-	287
Solar Gen (MU)*	35.07	12.19	64.43	4.61	0.05	116
Energy Shortage (MU)	0.7	0.0	0.0	0.0	1.6	2.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60517	41224	37750	21918	2906	159801
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:49	19:18	21:39	19:21	19:37

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	0.029	0.00	0.10	5.59	5.69	77.51	16.79

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	11938	0	269.6	145.0	-1.5	94	0.0
	Haryana	8839	0	195.7	188.7	1.5	285	0.0
	Rajasthan	10500	0	234.4	83.2	-3.4	281	0.0
	Delhi	5025	0	108.0	97.6	-3.0	82	0.0
	UP	20784	0	425.1	213.2	-0.4	787	0.7
	Uttarakhand	1854	0	41.6	19.8	0.7	113	0.0
	HP	1421	0	29.8	-3.4	-0.7	99	0.0
	J&K(UT) & Ladakh(UT)	2263	0	41.5	17.1	-0.6	226	0.0
	Chandigarh	328	0	6.3	6.1	0.2	34	0.0
WR	Chhattisgarh	3465	0	81.9	20.5	-0.5	292	0.0
	Gujarat	11820	0	257.9	67.6	1.4	755	0.0
	MP	8357	0	186.8	118.8	-1.5	580	0.0
	Maharashtra	16852	0	350.6	128.6	-0.7	643	0.0
	Goa	402	0	8.7	8.3	-0.1	39	0.0
	DD	277	0	6.0	5.7	0.2	29	0.0
	DNH	687	0	15.4	15.5	-0.1	43	0.0
	AMNSIL	767	0	17.4	1.5	0.4	297	0.0
SR	Andhra Pradesh	7800	0	160.7	40.2	-0.6	451	0.0
	Telangana	6827	0	140.4	56.9	0.3	604	0.0
	Karnataka	7745	0	147.6	33.6	-0.8	481	0.0
	Kerala	3207	0	65.4	42.6	0.4	122	0.0
	Tamil Nadu	13866	0	305.6	112.6	-1.1	598	0.0
	Puducherry	349	0	7.0	7.4	-0.4	45	0.0
ER	Bihar	5852	0	116.1	108.6	0.7	341	0.0
	DVC	2960	0	64.7	-45.0	0.2	287	0.0
	Jharkhand	1463	0	28.5	21.6	-1.3	125	0.0
	Odisha	4511	0	93.1	14.9	-0.3	395	0.0
	West Bengal	7708	0	166.0	54.7	0.7	456	0.0
	Sikkim	85	0	1.0	1.2	-0.1	14	0.0
NER	Arunachal Pradesh	108	1	1.7	1.8	-0.1	32	0.0
	Assam	1888	90	33.6	29.5	1.4	185	1.5
	Manipur	173	1	3.0	2.5	0.5	20	0.0
	Meghalaya	307	0	5.5	0.1	-0.3	27	0.0
	Mizoram	85	1	1.6	1.1	0.3	38	0.0
	Nagaland	129	1	2.3	2.5	-0.5	9	0.0
	Tripura	276	0	4.5	5.8	-0.1	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.5	-3.2	-25.6
Day Peak (MW)	2329.0	-218.5	-1097.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	360.6	-311.9	48.5	-98.4	1.2	0.0
Actual(MU)	359.3	-316.1	38.0	-86.0	1.9	-3.0
O/D/U/D(MU)	-1.3	-4.2	-10.5	12.4	0.7	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5178	15668	11162	2665	760	35432
State Sector	10754	25561	14682	4577	47	55621
Total	15932	41229	25844	7242	806	91053

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	507	983	286	453	3	2233
Lignite	27	11	22	0	0	60
Hydro	345	35	121	139	28	668
Nuclear	21	32	47	0	0	100
Gas, Naptha & Diesel	41	70	12	0	23	146
RES (Wind, Solar, Biomass & Others)	79	126	285	5	0	495
Total	1019	1258	774	597	55	3702

Share of RES in total generation (%)	7.74	10.05	36.90	0.77	0.09	13.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.64	15.39	58.63	24.06	51.07	34.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.070

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: 19-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	22.5	-22.5
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.8	-4.8
3	765 kV	GAYA-VARANASI	2	0	535	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	209	85	1.8	0.0	1.8
5	765 kV	GAYA-BALIA	1	0	511	0.0	9.3	-9.3
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	1	75	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	638	0.0	12.3	-12.3
9	400 kV	PATNA-BALIA	4	0	769	0.0	14.0	-14.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	295	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	339	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	104	148	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	1	18	170	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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	2.2	89.6	-87.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	593	264	3.1	0.0	3.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1455	0	24.5	0.0	24.5
3	765 kV	JHARSUGUDA-DURG	2	127	99	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	308	18	3.1	0.0	3.1
5	400 kV	RANCHI-SIPAT	2	515	0	9.0	0.0	9.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	108	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	152	0	2.5	0.0	2.5
					ER-WR	42.2	1.5	40.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	220	0.0	5.0	-5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1705	0.0	29.4	-29.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2228	0.0	35.3	-35.3
4	400 kV	TALCHER-I/C	2	891	0	14.5	0.0	14.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	69.7	-69.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	596	0.0	6.3	-6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	689	0.0	8.4	-8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	197	0.0	2.4	-2.4
					ER-NER	0.0	17.0	-17.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1756	0.0	58.0	-58.0
2	HVDC	VINDHYACHAL B/B	-	0	497	0.0	5.0	-5.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	45.3	-45.3
4	765 kV	GWALIOR-AGRA	2	0	2890	0.0	54.4	-54.4
5	765 kV	PHAGI-GWALIOR	2	0	1373	0.0	26.0	-26.0
6	765 kV	JABALPUR-ORAI	2	0	1131	0.0	42.3	-42.3
7	765 kV	GWALIOR-ORAI	1	404	0	8.1	0.0	8.1
8	765 kV	SATNA-ORAI	1	0	1571	0.0	32.8	-32.8
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1123	0.0	15.6	-15.6
10	400 kV	ZERDA-KANKROLI	1	9	189	0.0	1.7	-1.7
11	400 kV	ZERDA -BHINMAL	1	158	255	0.0	0.9	-0.9
12	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	0	597	0.0	8.8	-8.8
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	116	0.0	2.0	-2.0
16	220 kV	MEHGAON-AURAIYA	1	94	0	0.2	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	55	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	31.5	294.7	-263.2
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	451	0.0	2.6	-2.6
3	765 kV	SOLAPUR-RAICHUR	2	1154	1291	0.0	1.3	-1.3
4	765 kV	WARDHA-NIZAMABAD	2	0	1653	0.0	17.8	-17.8
5	400 kV	KOLHAPUR-KUDGI	2	1151	0	14.0	0.0	14.0
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	91	1.7	0.0	1.7
					WR-SR	15.6	27.9	-12.3

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)	777	760	777	18.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1066	0	1020	24.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	365	0	323	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	71	52	-61	-1.5
	NER	132kV Motanga-Rangia	50	30	-40	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-48	0	-29	-0.7
	ER	132KV-BIHAR - NEPAL	46	4	7	0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-216	-36	-113	-2.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-934	-932	-933	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-66	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-66	-1.6