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: 15th 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 14.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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:** **15-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)	57038	39629	36865	21699	2716	157947
Peak Shortage (MW)	0	0	0	0	251	251
Energy Met (MU)	1240	902	859	466	54	3520
Hydro Gen (MU)	346	27	115	145	27	660
Wind Gen (MU)	15	127	196	-	-	338
Solar Gen (MU)*	38.22	13.40	43.80	4.52	0.04	100
Energy Shortage (MU)	1.1	0.0	0.0	0.0	2.1	3.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58767	39435	42346	21761	2820	158364
Time Of Maximum Demand Met (From NLDC SCADA)	22:09	19:32	11:42	19:48	19:05	19:49

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	0.032	0.00	0.38	6.98	7.36	85.50	7.14

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	11134	0	249.2	139.7	-0.9	75	0.0
	Haryana	8463	0	177.0	170.2	1.4	335	0.0
	Rajasthan	9859	0	221.6	83.2	-3.1	295	0.0
	Delhi	4655	0	97.5	91.3	-1.8	131	0.0
	UP	20427	0	374.9	176.9	-0.5	494	1.1
	Uttarakhand	1824	0	39.3	19.8	0.3	140	0.0
	HP	1387	0	31.2	-3.1	-1.7	179	0.0
	J&K(UT) & Ladakh(UT)	2132	0	43.5	19.3	-1.7	141	0.0
	Chandigarh	282	0	5.6	5.9	-0.2	21	0.0
WR	Chhattisgarh	3853	0	90.5	25.9	-2.6	265	0.0
	Gujarat	11126	0	241.6	75.6	5.5	608	0.0
	MP	8210	0	184.0	104.1	-2.0	248	0.0
	Maharashtra	16112	0	339.2	98.5	-2.4	787	0.0
	Goa	409	0	8.7	8.2	-0.1	76	0.0
	DD	262	0	5.7	5.6	0.1	35	0.0
	DNH	669	0	15.2	15.2	0.0	51	0.0
	AMNSIL	773	0	16.7	2.2	0.2	266	0.0
SR	Andhra Pradesh	7511	0	157.8	36.8	-0.6	388	0.0
	Telangana	8550	0	176.1	62.6	-0.9	396	0.0
	Karnataka	8610	0	160.6	42.7	-1.9	409	0.0
	Kerala	3131	0	64.3	37.8	-0.6	164	0.0
	Tamil Nadu	12913	0	291.7	101.8	-2.7	360	0.0
	Puducherry	372	0	8.1	7.9	0.2	81	0.0
ER	Bihar	5581	0	113.6	102.4	3.0	460	0.0
	DVC	2936	0	65.9	-40.5	-0.1	330	0.0
	Jharkhand	1494	0	29.0	21.8	0.1	111	0.0
	Odisha	4008	0	83.1	7.0	-0.7	203	0.0
	West Bengal	8272	0	173.5	54.2	2.6	389	0.0
	Sikkim	81	0	1.0	1.2	-0.2	11	0.0
NER	Arunachal Pradesh	114	2	2.0	1.8	0.2	32	0.0
	Assam	1855	24	34.9	30.6	0.3	143	2.0
	Manipur	188	2	2.7	2.5	0.2	30	0.0
	Meghalaya	312	0	5.5	-0.1	-0.1	31	0.0
	Mizoram	90	2	1.6	1.2	0.2	19	0.0
	Nagaland	124	1	2.3	2.4	-0.4	15	0.0
	Tripura	270	4	5.0	6.4	-0.1	41	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.8	-3.8	-25.6
Day Peak (MW)	2410.0	-346.0	-1102.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.8	-291.3	62.5	-81.6	0.6	0.0
Actual(MU)	295.2	-299.9	61.6	-64.7	2.5	-5.4
O/D/U/D(MU)	-14.6	-8.6	-0.9	16.9	1.9	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5356	17277	13712	3465	661	40470
State Sector	11419	25738	13602	4192	47	54998
Total	16775	43015	27314	7657	707	95468

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	476	934	300	414	7	2130
Lignite	27	11	26	0	0	64
Hydro	346	27	115	145	27	660
Nuclear	22	31	47	0	0	101
Gas, Naptha & Diesel	24	68	15	0	24	131
RES (Wind, Solar, Biomass & Others)	74	152	303	5	0	533
Total	969	1222	806	563	57	3619
Share of RES in total generation (%)	7.65	12.43	37.52	0.80	0.07	14.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.61	17.18	57.70	26.50	46.98	35.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.061

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: 15-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	1102	0.0	25.7	-25.7
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.5	-9.5
3	765 kV	GAYA-VARANASI	2	57	563	0.0	7.0	-7.0
4	765 kV	SASARAM-FATEHPUR	1	469	0	5.6	0.0	5.6
5	765 kV	GAYA-BALIA	1	0	533	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	326	0.0	6.7	-6.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	148	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	577	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	4	0	588	0.0	8.8	-8.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	207	0.0	2.4	-2.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	282	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	2	310	0	3.4	0.0	3.4
13	220 kV	PUSAULI-SAHUPURI	1	0	147	0.0	2.4	-2.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.5	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	9.4	86.2	-76.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	975	300	11.2	0.0	11.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1614	0	22.5	0.0	22.5
3	765 kV	JHARSUGUDA-DURG	2	260	102	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	464	122	2.8	0.0	2.8
5	400 kV	RANCHI-SIPAT	2	621	0	9.0	0.0	9.0
6	220 kV	BUDHIPADAR-RAIGARH	1	29	122	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	240	0	2.8	0.0	2.8
					ER-WR	49.8	1.2	48.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	400	223	5.8	0.0	5.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1741	0.0	28.0	-28.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2145	0.0	36.3	-36.3
4	400 kV	TALCHER-I/C	2	1168	900	4.1	0.0	4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	5.8	64.3	-58.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	465	0.0	7.1	-7.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	562	0.0	7.8	-7.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	139	0.0	2.2	-2.2
					ER-NER	0.0	17.2	-17.2
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	1504	0.0	44.1	-44.1
2	HVDC	VINDHYACHAL B/B	-	448	498	10.1	0.0	10.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	27.0	-27.0
4	765 kV	GWALIOR-AGRA	2	0	2780	0.0	51.1	-51.1
5	765 kV	PHAGI-GWALIOR	2	0	1451	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	2	0	1089	0.0	40.1	-40.1
7	765 kV	GWALIOR-ORAI	1	384	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1548	0.0	31.8	-31.8
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1056	0.0	14.1	-14.1
10	400 kV	ZERDA-KANKROLI	1	45	177	0.0	1.8	-1.8
11	400 kV	ZERDA -BHINMAL	1	38	202	0.0	2.7	-2.7
12	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	622	0.0	9.6	-9.6
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	136	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	58	28	0.1	0.6	-0.5
17	220 kV	MALANPUR-AURAIYA	1	32	55	0.3	0.2	0.1
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	40.7	254.0	-213.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	305	0.0	6.6	-6.6
2	HVDC	RAIGARH-PUGALUR	2	0	1509	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	639	1101	1.4	6.6	-5.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1781	0.0	25.1	-25.1
5	400 kV	KOLHAPUR-KUDGI	2	915	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	77	1.4	0.0	1.4
					WR-SR	15.9	52.8	-37.0

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)	765	0	730	17.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1161	0	1066	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	368	0	340	8.2
	NER	132KV-GEYLEGPHU - SALAKATI	68	63	-63	-1.5
	NER	132kV Motanga-Rangia	47	38	-42	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-35	-0.8
	ER	132KV-BIHAR - NEPAL	-88	-1	-23	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-206	-40	-100	-2.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-936	-924	-930	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-69	-1.7