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: 14th 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 13.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:** **14-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)	55092	39064	37380	21757	2950	156243
Peak Shortage (MW)	20	0	0	0	14	34
Energy Met (MU)	1221	908	861	460	55	3506
Hydro Gen (MU)	340	22	123	141	28	654
Wind Gen (MU)	37	173	179	-	-	390
Solar Gen (MU)*	35.91	9.40	46.69	4.36	0.06	96
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.1	0.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57685	39889	40877	22062	2929	156612
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:37	09:24	23:28	18:56	19:56

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	0.028	0.00	0.61	3.91	4.52	84.17	11.31

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	11331	0	257.7	144.7	-1.5	30	0.0
	Haryana	8483	0	168.6	161.1	0.6	313	0.0
	Rajasthan	10290	0	231.9	78.2	-2.8	475	0.0
	Delhi	5009	0	99.0	93.6	-0.6	346	0.0
	UP	19306	0	349.7	161.4	-1.9	731	0.0
	Uttarakhand	1717	0	38.9	20.9	0.5	189	0.0
	HP	1367	0	28.7	-2.8	-1.2	135	0.0
	J&K(UT) & Ladakh(UT)	2119	0	40.9	16.9	-0.7	287	0.0
	Chandigarh	257	0	5.4	5.6	-0.2	50	0.0
WR	Chhattisgarh	3915	0	93.5	28.2	1.5	462	0.0
	Gujarat	10462	0	231.2	57.5	0.9	592	0.0
	MP	8306	0	185.9	106.1	-2.4	878	0.0
	Maharashtra	16862	0	350.5	109.8	-5.3	805	0.0
	Goa	64	0	8.8	8.4	-0.2	59	0.0
	DD	267	0	5.7	5.4	0.3	57	0.0
	DNH	681	0	15.2	15.0	0.2	69	0.0
	AMNSIL	810	0	17.6	5.8	0.1	267	0.0
SR	Andhra Pradesh	7479	0	160.2	40.9	0.7	479	0.0
	Telangana	8818	0	185.3	79.7	-2.6	582	0.0
	Karnataka	8439	0	156.9	43.2	0.3	701	0.0
	Kerala	3116	0	63.5	35.9	0.0	166	0.0
	Tamil Nadu	13329	0	287.3	102.0	-2.0	454	0.0
	Puducherry	372	0	8.0	8.1	-0.2	61	0.0
ER	Bihar	5785	0	106.3	97.8	1.3	355	0.0
	DVC	2968	0	62.8	-43.1	-1.8	240	0.0
	Jharkhand	1444	0	27.5	24.3	-1.9	123	0.0
	Odisha	4094	0	86.6	11.1	0.3	369	0.0
	West Bengal	8651	0	176.1	56.8	2.3	496	0.0
	Sikkim	86	0	1.0	1.2	-0.2	19	0.0
NER	Arunachal Pradesh	112	1	2.1	1.9	0.2	30	0.0
	Assam	1934	8	36.0	31.6	0.5	131	0.0
	Manipur	193	2	2.6	2.5	0.1	60	0.0
	Meghalaya	310	0	5.3	0.0	-0.3	13	0.0
	Mizoram	94	2	1.6	1.2	0.3	20	0.0
	Nagaland	128	1	2.2	2.5	-0.5	11	0.0
	Tripura	303	1	5.5	6.5	0.5	77	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.9	-2.6	-25.8
Day Peak (MW)	2413.0	-284.7	-1113.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.7	-295.7	70.9	-74.3	1.4	0.0
Actual(MU)	273.1	-279.0	65.6	-63.6	2.7	-1.2
O/D/U/D(MU)	-24.7	16.7	-5.3	10.7	1.4	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5561	16382	12712	4265	610	39529
State Sector	11689	25416	14168	4292	47	55612
Total	17250	41798	26880	8557	656	95141

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	470	911	302	403	6	2094
Lignite	23	10	26	0	0	59
Hydro	340	22	123	141	28	654
Nuclear	22	32	47	0	0	101
Gas, Naptha & Diesel	24	39	16	0	24	103
RES (Wind, Solar, Biomass & Others)	93	209	279	4	0	585
Total	972	1223	793	549	59	3596
Share of RES in total generation (%)	9.59	17.07	35.16	0.81	0.10	16.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.79	21.46	56.62	26.52	48.10	37.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.085

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: 14-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	1301	0.0	32.0	-32.0
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	2	0	447	0.0	4.7	-4.7
4	765 kV	SASARAM-FATEHPUR	1	428	0	5.6	0.0	5.6
5	765 kV	GAYA-BALIA	1	0	472	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	1	0	316	0.0	7.1	-7.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	147	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	387	0.0	6.8	-6.8
9	400 kV	PATNA-BALIA	4	0	554	0.0	7.9	-7.9
10	400 kV	BIHARSHARIFF-BALIA	2	16	151	0.0	1.3	-1.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	278	0.0	4.0	-4.0
12	400 kV	BIHARSHARIFF-VARANASI	2	241	0	3.6	0.0	3.6
13	220 kV	PUSAULI-SAHUPURI	1	0	123	0.0	2.2	-2.2
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	9.5	85.2	-75.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1515	0	22.7	0.0	22.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1533	0	25.6	0.0	25.6
3	765 kV	JHARSUGUDA-DURG	2	240	0	3.9	0.0	3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	298	41	3.2	0.0	3.2
5	400 kV	RANCHI-SIPAT	2	570	0	9.0	0.0	9.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	190	8	3.5	0.0	3.5
					ER-WR	67.9	1.0	66.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	198	222	1.6	0.0	1.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1737	0.0	34.4	-34.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2305	0.0	36.8	-36.8
4	400 kV	TALCHER-I/C	2	210	911	0.0	8.7	-8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	1.6	71.2	-69.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	538	0.0	7.5	-7.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	655	0.0	8.1	-8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	155	0.0	2.5	-2.5
					ER-NER	0.0	18.2	-18.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.3	-17.3
					NER-NR	0.0	17.3	-17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	34.6	-34.6
2	HVDC	VINDHYACHAL B/B	-	449	106	9.8	0.4	9.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	19.3	-19.3
4	765 kV	GWALIOR-AGRA	2	0	2909	0.0	47.7	-47.7
5	765 kV	PHAGI-GWALIOR	2	0	1339	0.0	24.3	-24.3
6	765 kV	JABALPUR-ORAI	2	0	1093	0.0	37.2	-37.2
7	765 kV	GWALIOR-ORAI	1	370	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1579	0.0	31.5	-31.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1517	0.0	23.2	-23.2
10	400 kV	ZERDA-KANKROLI	1	11	185	0.0	1.0	-1.0
11	400 kV	ZERDA -BHINMAL	1	99	396	0.0	2.6	-2.6
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	142	608	0.0	6.9	-6.9
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	116	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	82	32	0.2	0.4	-0.2
17	220 kV	MALANPUR-AURAIYA	1	50	59	0.6	0.1	0.5
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	40.6	233.5	-192.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	5.6	-5.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	614	1662	1.7	10.3	-8.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2630	0.0	33.8	-33.8
5	400 kV	KOLHAPUR-KUDGI	2	805	0	9.9	0.0	9.9
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	78	1.4	0.0	1.4
					WR-SR	13.0	49.8	-36.8

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)	766	764	766	18.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1157	0	1053	25.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	376	0	343	8.2
	NER	132KV-GEYLEGPHU - SALAKATI	66	57	-63	-1.5
	NER	132kV Motanga-Rangia	48	32	-41	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-81	0	-11	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-204	-34	-98	-2.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-936	0	-922	-22.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-77	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	89	0	-77	-1.8