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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 18th 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 17.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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:** **18-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)	60870	40490	35704	21449	2725	161238
Peak Shortage (MW)	408	0	0	0	11	419
Energy Met (MU)	1350	914	786	455	50	3555
Hydro Gen (MU)	348	36	125	139	27	675
Wind Gen (MU)	16	107	155	-	-	278
Solar Gen (MU)*	36.24	12.20	47.82	4.25	0.04	101
Energy Shortage (MU)	2.4	0.0	0.0	0.0	0.1	2.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63424	40720	39914	21815	2792	164407
Time Of Maximum Demand Met (From NLDC SCADA)	22:33	10:42	19:56	19:42	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	0.035	0.00	0.52	7.49	8.01	82.71	9.28

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	12120	0	274.4	148.5	-1.5	27	0.0
	Haryana	9029	438	198.1	190.4	2.2	313	2.0
	Rajasthan	10589	0	227.1	81.6	0.6	581	0.0
	Delhi	5168	0	108.5	97.6	-1.6	124	0.3
	UP	21685	0	422.5	211.3	0.0	376	0.0
	Uttarakhand	1857	0	41.0	19.8	0.9	138	0.0
	HP	1406	0	30.8	-4.8	-0.5	70	0.0
	J&K(UT) & Ladakh(UT)	2195	0	41.8	17.8	-1.1	222	0.0
	Chandigarh	300	0	6.1	6.0	0.1	33	0.0
WR	Chhattisgarh	3461	0	81.0	25.5	-0.9	205	0.0
	Gujarat	11785	0	252.3	71.3	-2.5	685	0.0
	MP	8456	0	191.7	127.8	-1.6	305	0.0
	Maharashtra	16335	0	341.4	123.4	-2.6	503	0.0
	Goa	396	0	8.3	7.8	0.0	54	0.0
	DD	273	0	5.8	5.6	0.2	29	0.0
	DNH	675	0	15.2	15.1	0.1	46	0.0
	AMNSIL	792	0	17.9	1.5	0.4	283	0.0
SR	Andhra Pradesh	7175	0	150.8	37.3	0.5	590	0.0
	Telangana	5991	0	122.6	46.9	-2.2	562	0.0
	Karnataka	7839	0	149.5	35.8	-1.7	1118	0.0
	Kerala	3230	0	64.5	43.5	-0.1	181	0.0
	Tamil Nadu	13853	0	290.8	99.1	-0.6	468	0.0
	Puducherry	387	0	7.9	7.9	0.0	112	0.0
ER	Bihar	5492	0	111.4	103.3	2.2	473	0.0
	DVC	2930	0	64.1	-45.4	0.8	335	0.0
	Jharkhand	1420	0	27.8	21.2	-1.5	162	0.0
	Odisha	4440	0	88.0	12.7	-0.6	361	0.0
	West Bengal	7800	0	163.1	54.9	-0.9	364	0.0
	Sikkim	90	0	1.0	1.2	-0.1	10	0.0
NER	Arunachal Pradesh	105	2	1.8	1.9	-0.1	23	0.0
	Assam	1787	35	32.4	27.9	0.1	98	0.0
	Manipur	183	1	2.5	2.5	0.0	26	0.0
	Meghalaya	317	0	5.5	0.0	-0.2	30	0.0
	Mizoram	90	1	1.5	1.1	0.1	11	0.0
	Nagaland	125	2	2.3	2.3	-0.2	13	0.0
	Tripura	257	2	4.1	5.6	-0.5	27	0.1

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.8	-3.1	-24.7
Day Peak (MW)	2429.0	-225.1	-1076.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	358.8	-315.6	50.0	-92.7	-0.6	0.0
Actual(MU)	355.7	-313.5	38.5	-81.8	-0.5	-1.6
O/D/U/D(MU)	-3.1	2.1	-11.5	10.8	0.1	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5773	15167	13322	3165	860	38286
State Sector	11904	26041	14712	4577	47	57281
Total	17677	41208	28034	7742	906	95567

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	506	982	291	436	4	2219
Lignite	27	10	24	0	0	61
Hydro	348	36	125	139	27	675
Nuclear	21	32	47	0	0	100
Gas, Naptha & Diesel	40	64	14	0	26	143
RES (Wind, Solar, Biomass & Others)	72	136	259	4	0	471
Total	1014	1260	759	579	56	3669
Share of RES in total generation (%)	7.08	10.78	34.10	0.74	0.07	12.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.48	16.13	56.81	24.76	47.97	33.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.034

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: 18-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	904	0.0	22.1	-22.1
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.9	-4.9
3	765 kV	GAYA-VARANASI	2	0	643	0.0	8.2	-8.2
4	765 kV	SASARAM-FATEHPUR	1	307	53	2.4	0.0	2.4
5	765 kV	GAYA-BALIA	1	0	563	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	10	64	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	722	0.0	12.2	-12.2
9	400 kV	PATNA-BALIA	4	0	875	0.0	14.4	-14.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	335	0.0	3.9	-3.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	200	94	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	1	0	145	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	0.5	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	3.5	88.2	-84.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	723	400	3.7	0.0	3.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1511	0	26.3	0.0	26.3
3	765 kV	JHARSUGUDA-DURG	2	122	161	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	309	87	2.3	0.0	2.3
5	400 kV	RANCHI-SIPAT	2	568	0	9.3	0.0	9.3
6	220 kV	BUDHIPADAR-RAIGARH	1	28	107	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	163	0	2.4	0.0	2.4
					ER-WR	44.0	1.3	42.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	219	0.0	5.0	-5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1718	0.0	33.4	-33.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2089	0.0	33.4	-33.4
4	400 kV	TALCHER-I/C	2	1274	298	9.3	0.0	9.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	71.8	-71.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	422	0.0	5.0	-5.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	564	0.0	6.2	-6.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	1.9	-1.9
					ER-NER	0.0	13.1	-13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.0	-16.0
					NER-NR	0.0	16.0	-16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	59.9	-59.9
2	HVDC	VINDHYACHAL B/B	-	0	497	0.0	7.3	-7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2372	0.0	41.6	-41.6
4	765 kV	GWALIOR-AGRA	2	0	3078	0.0	54.5	-54.5
5	765 kV	PHAGI-GWALIOR	2	0	1588	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	1201	0.0	43.9	-43.9
7	765 kV	GWALIOR-ORAI	1	413	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	1	0	1640	0.0	33.2	-33.2
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1152	0.0	15.8	-15.8
10	400 kV	ZERDA-KANKROLI	1	46	180	0.0	1.7	-1.7
11	400 kV	ZERDA -BHINMAL	1	66	231	0.0	1.4	-1.4
12	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	592	0.0	8.5	-8.5
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.8	-1.8
15	220 kV	BHANPURA-MORAK	1	0	116	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	1	93	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	56	25	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	32.8	299.5	-266.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	258	0.0	6.1	-6.1
2	HVDC	RAIGARH-PUGALUR	2	843	1292	0.0	0.7	-0.7
3	765 kV	SOLAPUR-RAICHUR	2	834	1228	4.3	7.2	-2.9
4	765 kV	WARDHA-NIZAMABAD	2	0	1454	0.0	16.0	-16.0
5	400 kV	KOLHAPUR-KUDGI	2	984	0	14.1	0.0	14.1
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	93	1.6	0.0	1.6
					WR-SR	20.0	30.0	-10.0

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)	764	0	711	17.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1166	0	1031	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	367	0	310	7.4
	NER	132KV-GEYLEGPHU - SALAKATI	64	44	-50	-1.2
	NER	132kV Motanga-Rangia	67	42	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-44	0	-30	-0.7
	ER	132KV-BIHAR - NEPAL	55	4	15	0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-236	-42	-113	-2.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-932	0	-909	-21.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	72	0	-60	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	72	0	-60	-1.5