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: 16th 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 15.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	55426	35135	32324	20521	2611	146017
Peak Shortage (MW)	0	0	0	0	182	182
Energy Met (MU)	1248	848	785	437	49	3367
Hydro Gen (MU)	354	30	107	136	26	653
Wind Gen (MU)	12	118	179	-	-	309
Solar Gen (MU)*	32.50	12.40	38.45	4.51	0.05	88
Energy Shortage (MU)	10.1	0.0	0.0	0.0	4.3	14.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58716	37071	37077	21087	2635	147473
Time Of Maximum Demand Met (From NLDC SCADA)	22:21	07:02	08:54	00:00	18:48	19:54

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	0.023	0.00	0.00	3.14	3.14	84.47	12.39

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	11240	0	255.2	139.4	-1.2	86	0.0
	Haryana	8470	0	177.4	169.8	1.8	260	0.0
	Rajasthan	9189	0	207.8	78.3	-2.0	459	0.0
	Delhi	4713	0	89.4	77.8	-1.1	191	0.1
	UP	20388	0	408.0	196.5	-1.6	252	0.0
	Uttarakhand	1608	0	34.3	12.2	1.0	205	0.0
	HP	1129	0	26.5	-8.7	-1.1	5	0.0
	J&K(UT) & Ladakh(UT)	2174	0	44.5	19.1	-0.3	104	10.0
	Chandigarh	282	0	5.4	5.6	-0.2	36	0.0
WR	Chhattisgarh	3828	0	90.3	25.4	-0.5	176	0.0
	Gujarat	10423	0	229.2	73.1	0.5	629	0.0
	MP	8245	0	183.1	116.1	-1.6	552	0.0
	Maharashtra	14415	0	303.7	93.7	-2.0	717	0.0
	Goa	323	0	7.2	6.9	-0.4	51	0.0
	DD	231	0	3.9	3.8	0.1	23	0.0
	DNH	613	0	12.8	12.6	0.2	57	0.0
	AMNSIL	800	0	17.8	1.5	0.5	263	0.0
SR	Andhra Pradesh	7189	0	144.6	36.6	-0.7	290	0.0
	Telangana	7701	0	146.4	56.3	-1.1	729	0.0
	Karnataka	7846	0	150.2	44.2	-2.2	387	0.0
	Kerala	3012	0	61.2	35.9	0.1	157	0.0
	Tamil Nadu	11845	0	275.3	93.1	-3.3	440	0.0
	Puducherry	336	0	6.9	7.1	-0.2	47	0.0
ER	Bihar	5537	0	115.8	106.2	2.2	470	0.0
	DVC	2908	0	64.0	-39.9	0.2	229	0.0
	Jharkhand	1445	0	28.2	20.7	-1.4	114	0.0
	Odisha	4006	0	75.4	16.9	-1.9	353	0.0
	West Bengal	8047	0	152.9	48.5	0.4	536	0.0
	Sikkim	74	0	0.9	1.1	-0.2	16	0.0
NER	Arunachal Pradesh	110	2	1.9	2.1	-0.2	43	0.0
	Assam	1789	26	30.6	26.8	-0.4	153	4.2
	Manipur	156	1	2.6	2.5	0.1	26	0.0
	Meghalaya	310	0	5.5	0.2	-0.4	53	0.0
	Mizoram	91	2	1.5	1.2	0.1	17	0.0
	Nagaland	120	2	2.3	2.3	-0.3	9	0.0
	Tripura	262	8	4.4	5.5	-0.4	42	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.5	-2.4	-25.6
Day Peak (MW)	2417.0	-269.8	-1108.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.1	-285.8	66.3	-80.0	2.4	0.0
Actual(MU)	293.6	-291.0	59.6	-66.9	0.4	-4.4
O/D/U/D(MU)	-3.6	-5.2	-6.7	13.1	-2.0	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6133	15767	13212	3455	860	39426
State Sector	12364	27641	14052	5252	47	59356
Total	18497	43408	27264	8707	906	98782

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	482	900	274	401	4	2060
Lignite	27	10	25	0	0	63
Hydro	354	30	108	136	26	653
Nuclear	22	32	41	0	0	94
Gas, Naptha & Diesel	29	60	15	0	23	127
RES (Wind, Solar, Biomass & Others)	66	140	272	5	0	483
Total	980	1171	734	541	53	3479
Share of RES in total generation (%)	6.72	11.99	37.04	0.83	0.09	13.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.06	17.21	57.24	25.93	48.99	35.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.091

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: 16-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	22.6	-22.6
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.1	-9.1
3	765 kV	GAYA-VARANASI	2	19	482	0.0	5.4	-5.4
4	765 kV	SASARAM-FATEHPUR	1	415	0	7.5	0.0	7.5
5	765 kV	GAYA-BALIA	1	0	570	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	326	0.0	7.1	-7.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	134	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	565	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	4	0	562	0.0	8.9	-8.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	309	0.0	2.2	-2.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	224	0.0	4.0	-4.0
12	400 kV	BIHARSHARIFF-VARANASI	2	250	0	3.9	0.0	3.9
13	220 kV	PUSAULI-SAHUPURI	1	0	152	0.0	3.1	-3.1
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	11.9	81.7	-69.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	994	441	7.4	0.0	7.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1298	0	20.5	0.0	20.5
3	765 kV	JHARSUGUDA-DURG	2	133	88	0.4	0.0	0.4
4	400 kV	JHARSUGUDA-RAIGARH	4	207	136	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	484	0	7.4	0.0	7.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	110	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	171	0	2.8	0.0	2.8
					ER-WR	39.6	1.4	38.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	399	0	5.6	0.0	5.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1720	0.0	31.4	-31.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2263	0.0	38.6	-38.6
4	400 kV	TALCHER-I/C	2	900	226	6.2	0.0	6.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	5.6	70.0	-64.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	417	0.0	5.4	-5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	564	0.0	7.7	-7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	144	0.0	2.2	-2.2
					ER-NER	0.0	15.2	-15.2
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	1503	0.0	53.6	-53.6
2	HVDC	VINDHYACHAL B/B	-	0	502	0.0	11.8	-11.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	35.5	-35.5
4	765 kV	GWALIOR-AGRA	2	0	2830	0.0	44.4	-44.4
5	765 kV	PHAGI-GWALIOR	2	0	1332	0.0	22.5	-22.5
6	765 kV	JABALPUR-ORAI	2	0	1004	0.0	35.9	-35.9
7	765 kV	GWALIOR-ORAI	1	435	0	8.6	0.0	8.6
8	765 kV	SATNA-ORAI	1	0	1484	0.0	28.4	-28.4
9	765 kV	CHITORGARH-BANASKANTHA	2	159	1060	0.2	7.4	-7.2
10	400 kV	ZERDA-KANKROLI	1	80	172	0.0	0.3	-0.3
11	400 kV	ZERDA -BHINMAL	1	102	189	0.0	0.3	-0.3
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	555	0.0	7.2	-7.2
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	121	0.0	2.0	-2.0
16	220 kV	MEHGAON-AURAIYA	1	63	25	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	31	56	0.6	0.1	0.6
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	31.8	251.5	-219.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	255	0.0	5.6	-5.6
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	291	1446	0.3	12.2	-11.8
4	765 kV	WARDHA-NIZAMABAD	2	0	1891	0.0	26.0	-26.0
5	400 kV	KOLHAPUR-KUDGI	2	615	0	9.8	0.0	9.8
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	80	1.4	0.0	1.4
					WR-SR	11.5	43.8	-32.3

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)	766	0	760	18.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1170	0	1075	25.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	366	0	334	8.0
	NER	132KV-GEYLEGPHU - SALAKATI	67	55	-62	-1.5
	NER	132kV Motanga-Rangia	47	32	-40	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-0.8
	ER	132KV-BIHAR - NEPAL	-56	17	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-156	-8	-60	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-956	-931	-949	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	76	0	-59	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	76	0	-59	-1.4