



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 20thAug 2019

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. मुख्य महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Chief General Manager, 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 19.08.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अगस्त-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध 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 19th August 2019, 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

20-Aug-19

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)	50195	44964	38953	21141	2758	158011
Peak Shortage (MW)	1601	0	0	54	251	1906
Energy Met (MU)	1083	1032	896	430	53	3494
Hydro Gen (MU)	295	95	154	124	22	690
Wind Gen (MU)	17	51	61	-----	-----	129
Solar Gen (MU)*	0.00	20.3	77.41	1.80	0.03	100
Energy Shortage (MU)	18.7	0.0	0.0	0.2	2.0	20.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	52421 22:15	46101 19:33	39052 07:21	22040 21:20	2944 18:58	160332 19:52

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	0.052	0.32	1.04	10.90	12.27	69.11	18.62

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	8008	0	163.9	124.2	-2.1	113	0.0
	Haryana	7561	578	157.5	151.1	0.9	256	2.6
	Rajasthan	8494	0	180.9	61.7	-0.7	418	0.0
	Delhi	5175	0	103.8	87.0	-0.3	91	0.0
	UP	18909	0	379.4	176.8	-0.2	598	4.2
	Uttarakhand	1683	0	33.9	20.8	1.3	241	3.7
	HP	1184	0	24.2	-0.6	0.5	166	0.0
	J&K	1964	491	34.8	13.5	1.8	418	8.2
WR	Chandigarh	244	0	4.8	5.5	-0.8	15	0.0
	Chhattisgarh	3972	0	94.5	34.5	-0.5	286	0.0
	Gujarat	13627	0	300.2	62.3	3.3	452	0.0
	MP	7927	0	172.3	78.3	-2.8	392	0.0
	Maharashtra	19022	0	424.5	145.6	-0.8	589	0.0
	Goa	541	0	11.7	10.9	0.2	46	0.0
	DD	332	0	7.4	7.0	0.4	46	0.0
	DNH	810	0	18.9	19.0	-0.1	118	0.0
SR	Essar steel	305	0	2.8	2.7	0.1	322	0.0
	Andhra Pradesh	7595	0	164.3	34.3	1.7	869	0.0
	Telangana	10292	0	217.8	70.7	0.2	1254	0.0
	Karnataka	8286	0	158.5	25.1	2.5	1052	0.0
	Kerala	3397	0	65.6	47.2	1.4	209	0.0
	Tamil Nadu	13276	0	282.0	133.8	-0.5	542	0.0
	Pondy	389	0	7.5	7.7	-0.2	33	0.0
	ER	Bihar	5410	0	104.7	100.5	0.2	100
DVC		2883	0	61.1	-29.2	-1.2	200	0.0
Jharkhand		1057	0	22.1	13.6	-0.7	90	0.2
Odisha		4487	0	89.8	29.2	2.4	400	0.0
West Bengal		8233	0	151.8	79.7	2.6	500	0.0
Sikkim		91	0	0.9	1.3	-0.4	5	0.0
NER	Arunachal Pradesh	128	1	2.3	2.4	-0.1	57	0.0
	Assam	1854	142	34.2	28.9	1.0	149	2.0
	Manipur	174	2	2.4	2.3	0.1	27	0.0
	Meghalaya	313	0	5.2	0.6	-0.3	31	0.0
	Mizoram	96	1	1.6	0.7	0.0	7	0.0
	Nagaland	126	3	2.4	2.2	-0.2	23	0.0
	Tripura	323	1	4.9	3.8	0.7	153	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	46.6	-7.2	-26.3
Day peak (MW)	2063.1	-393.0	-1133.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.1	-245.7	20.5	-31.6	5.4	0.7
Actual(MU)	243.4	-269.2	49.8	-39.2	7.2	-8.0
O/D/U/D(MU)	-8.7	-23.4	29.2	-7.6	1.8	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6108	17268	8182	2395	728	34681
State Sector	12550	18022	9190	7280	50	47091
Total	18658	35289	17372	9675	778	81772

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	406	1027	439	366	8	2246
Lignite	23	9	46	0	0	77
Hydro	295	95	154	124	22	690
Nuclear	27	32	55	0	0	114
Gas, Naptha & Diesel	38	45	15	0	22	121
RES (Wind, Solar, Biomass & Others)	58	77	168	2	0	305
Total	847	1285	877	492	52	3553

Share of RES in total generation (%)	6.89	5.98	19.18	0.37	0.06	8.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	44.89	15.82	43.01	25.66	42.28	31.22

H. Diversity Factor

All India Demand Diversity Factor	1.014
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Diversity factor = Sum of regional maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES								
								Date of Reporting : 20-Aug-19
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	155	132	0.0	0.3	-0.3
2		SASARAM-FATEHPUR	S/C	218	39	2.1	0.0	2.1
3		GAYA-BALIA	S/C	0	303	0.0	5.4	-5.4
4	HVDC	ALIPURDUAR-AGRA	-	0	1352	0.0	30.1	-30.1
5		PUSAULI B/B	S/C	0	198	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.7	-4.7
7		PUSAULI -ALLAHABAD	S/C	12	38	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	58	602	0.0	5.5	-5.5
9		PATNA-BALIA	Q/C	0	556	0.0	11.5	-11.5
10		BIHARSHARIFF-BALIA	D/C	0	210	0.0	2.6	-2.6
11		MOTIHARI-GORAKHPUR	D/C	0	0	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	215	6	3.1	0.0	3.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	166	0.0	3.1	-3.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.2	0.0	0.2
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
ER-NR						5.4	68.0	-62.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1591	0	30.1	0.0	30.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	1184	0	17.4	0.0	17.4
20		JHARSUGUDA-DURG	D/C	279	0	4.1	0.0	4.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	554	0	8.5	0.0	8.5
22		RANCHI-SIPAT	D/C	437	0	6.6	0.0	6.6
23	220 kV	BUDHIPADAR-RAIGARH	S/C	28	44	0.0	0.1	-0.1
24		BUDHIPADAR-KORBA	D/C	165	0	3.1	0.0	3.1
ER-WR						69.8	0.1	69.6
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1367.0	0.0	17.7	-17.7
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	428.0	0.0	9.2	-9.2
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	990.0	0.0	22.8	-22.8
28	400 kV	TALCHER-I/C	D/C	241.0	130.0	0.0	1.2	-1.2
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	49.6	-49.6
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	693	0.0	12.4	-12
31		ALIPURDUAR-BONGAIGAON	D/C	59	518	0.0	5.5	-6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	176	0.0	3.0	-3
ER-NER						0.0	20.9	-20.9
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	806	0.0	15.8	-15.8
NER-NR						0.0	15.8	-15.8
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2006	0.0	47.5	-47.5
35		V'CHAL B/B	D/C	274	0	7.4	0.0	7.4
36		APL -MHG	D/C	0	1266	0.0	21.1	-21.1
37	765 kV	GWALIOR-AGRA	D/C	0	2552	0.0	43.8	-43.8
38		PHAGI-GWALIOR	D/C	0	1187	0.0	23.3	-23.3
39		JABALPUR-ORAI	D/C	779	891	0.0	32.5	-32.5
40		GWALIOR-ORAI	S/C	417	0	7.8	0.0	7.8
41		SATNA-ORAI	S/C	0	1375	0.0	27.8	-27.8
42		CHITTORGARH-BANASKANTHA	D/C	0	962	0.0	11.3	11.3
43		ZERDA-KANKROLI	S/C	61	160	0.1	1.2	-1.0
44	400 kV	ZERDA -BHINMAL	S/C	188	133	0.9	0.6	0.3
45		V'CHAL -RIHAND	S/C	964	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	0	386	0	3	-3
47	220 kV	BHANPURA-RANPUR	S/C	23	70	0.0	0.7	-0.7
48		BHANPURA-MORAK	S/C	0	110	0.0	1.8	-1.8
49		MEHGAON-AURAIYA	S/C	88	0	0.8	0.0	0.8
50		MALANPUR-AURAIYA	S/C	52	23	0.2	0.1	0.0
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						39.5	214.3	-152.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	1606	667	0.0	13.9	-13.9
55		WARDHA-NIZAMABAD	D/C	1157	1909	0.0	20.4	-20.4
56	400 kV	KOLHAPUR-KUDGI	D/C	1097	0	18.8	0.0	18.8
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	68	0.0	1.0	-1.0
59		XELDEM-AMBEWADI	S/C	0	39	0.6	0.0	0.6
WR-SR						19.4	42.5	-23.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						46.6
61		NEPAL						-7.2
62		BANGLADESH						-26.3