



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: 20th Sep 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 19.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-सितंबर-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 Sep 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-Sep-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)	56749	45099	38283	22766	2917	165814
Peak Shortage (MW)	1662	0	0	100	90	1852
Energy Met (MU)	1245	1017	846	469	56	3633
Hydro Gen (MU)	296	124	154	140	24	738
Wind Gen (MU)	7	33	74	-----	-----	114
Solar Gen (MU)*	28.31	17.4	50.59	1.85	0.04	98
Energy Shortage (MU)	11.1	0.0	0.0	0.3	1.0	12.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56709 20:19	46787 19:13	39229 18:41	22993 20:00	2870 18:19	166237 19:25

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	0.027	0.22	0.61	2.43	3.26	81.76	14.98

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	9875	0	224.0	127.7	-1.4	96	0.0
	Haryana	9151	0	200.4	146.9	0.1	212	0.0
	Rajasthan	10827	0	240.5	72.4	-1.4	329	0.0
	Delhi	5526	0	113.9	92.2	-1.0	203	0.0
	UP	17849	0	350.6	155.3	1.5	560	1.8
	Uttarakhand	1915	0	40.2	14.7	0.4	130	0.0
	HP	1467	0	30.5	6.2	0.8	110	0.0
	J&K	2155	539	39.1	16.6	-0.5	223	9.3
WR	Chandigarh	259	0	5.4	6.4	-0.9	24	0.0
	Chhattisgarh	4232	0	95.8	45.8	0.0	244	0.0
	Gujarat	14427	0	320.2	79.5	2.9	499	0.0
	MP	8141	0	174.1	70.2	-3.6	539	0.0
	Maharashtra	17627	0	386.2	156.0	-1.9	509	0.0
	Goa	541	0	11.5	10.9	0.0	38	0.0
	DD	305	0	6.2	5.9	0.3	36	0.0
	DNH	783	0	18.4	18.4	0.0	42	0.0
SR	Essar steel	267	0	5.0	5.0	0.0	250	0.0
	Andhra Pradesh	7289	0	153.8	42.1	-0.6	953	0.0
	Telangana	7869	0	167.1	33.5	-2.3	578	0.0
	Karnataka	8714	0	171.9	56.0	-0.1	948	0.0
	Kerala	3419	0	68.6	46.3	1.7	183	0.0
	Tamil Nadu	13540	0	277.0	116.4	0.7	1029	0.0
	Pondy	352	0	7.4	7.6	-0.2	27	0.0
	ER	Bihar	5372	0	96.1	96.2	-2.5	125
DVC		2900	0	63.1	-21.8	0.7	195	0.0
Jharkhand		1302	0	26.2	16.8	0.2	110	0.0
Odisha		5136	0	109.6	31.9	7.6	473	0.3
West Bengal		8929	0	172.8	67.8	1.9	310	0.0
Sikkim		98	0	1.1	1.2	-0.1	20	0.0
NER	Arunachal Pradesh	128	2	2.3	2.0	0.3	88	0.0
	Assam	1917	75	36.1	29.2	2.2	143	1.0
	Manipur	149	1	2.4	2.2	0.2	21	0.0
	Meghalaya	302	0	5.5	0.6	0.0	33	0.0
	Mizoram	89	1	1.7	0.2	1.2	21	0.0
	Nagaland	132	2	2.4	2.4	-0.2	52	0.0
	Tripura	298	1	5.8	5.7	0.4	62	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	44.1	-3.0	-25.6
Day peak (MW)	1851.7	-264.1	-1116.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.4	-210.4	15.2	-63.6	-7.6	6.1
Actual(MU)	263.0	-200.4	15.1	-70.0	-2.8	4.8
O/D/U/D(MU)	-9.4	10.0	-0.2	-6.5	4.8	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3494	16225	8222	2050	56	30047
State Sector	6880	19579	8710	5640	11	40820
Total	10374	35803	16932	7690	67	70866

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	564	964	413	417	12	2370
Lignite	21	13	39	0	0	73
Hydro	296	124	154	140	24	738
Nuclear	28	15	60	0	0	104
Gas, Naptha & Diesel	44	65	16	0	28	153
RES (Wind, Solar, Biomass & Others)	48	56	156	2	0	262
Total	1002	1237	838	560	64	3700

Share of RES in total generation (%)	4.78	4.55	18.65	0.34	0.06	7.09
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.16	15.79	44.25	25.41	37.04	29.84

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-Sep-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	515	0.0	7.9	-7.9	
2		SASARAM-FATEHPUR	S/C	124	224	0.0	1.6	-1.6	
3		GAYA-BALIA	S/C	0	315	0.0	4.8	-4.8	
4	HVDC	ALIPURDUAR-AGRA	-	0	1002	0.0	23.9	-23.9	
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	166	0.0	3.0	-3.0	
7		PUSAULI -ALLAHABAD	S/C	0	117	0.0	1.7	-1.7	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1010	0.0	14.7	-14.7	
9		PATNA-BALIA	Q/C	0	1017	0.0	19.7	-19.7	
10		BIHARSHARIFF-BALIA	D/C	0	266	0.0	3.7	-3.7	
11		MOTIHARI-GORAKHPUR	D/C	0	7	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	111	250	0.0	1.7	-1.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	174	0.0	2.9	-2.9	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4	
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						0.4	90.3	-89.9	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1127	0	19.3	0.0	19.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	670	234	7.0	0.0	7.0	
20		JHARSUGUDA-DURG	D/C	221	30	2.3	0.0	2.3	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	192	208	0.6	0.0	0.6	
22		RANCHI-SIPAT	D/C	228	117	1.9	0.0	1.9	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	117	0.0	2.0	-2.0	
24		BUDHIPADAR-KORBA	D/C	49	22	0.5	0.0	0.5	
ER-WR						31.6	2.0	29.7	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1427.0	0.0	22.2	-22.2	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	310.0	0.0	7.4	0.0	7.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	696.0	0.0	16.1	-16.1	
28	400 kV	TALCHER-I/C	D/C	669.0	0.0	5.0	0.0	5.0	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						7.4	38.2	-30.9	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	538	0.0	5.9	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	148	324	0.0	0.8	-1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	129	0.0	1.4	-1	
ER-NER						0.0	8.1	-8.1	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	12.6	-12.6	
NER-NR						0.0	12.6	-12.6	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1504	0.0	27.9	-27.9	
35		V'CHAL B/B	D/C	453	0	10.3	0.0	10.3	
36		APL -MHG	D/C	0	1740	0.0	37.8	-37.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2038	0.0	38.3	-38.3	
38		PHAGI-GWALIOR	D/C	0	1167	0.0	21.4	-21.4	
39		JABALPUR-ORAI	D/C	0	773	0.0	28.8	-28.8	
40		GWALIOR-ORAI	S/C	285	0	5.5	0.0	5.5	
41		SATNA-ORAI	S/C	0	1360	0.0	29.5	-29.5	
42		CHITTORGARH-BANASKANTHA	D/C	0	923	0.0	8.9	-8.9	
43		ZERDA-KANKROLI	S/C	66	133	0.2	1.1	-0.9	
44	400 kV	ZERDA -BHINMAL	S/C	7	278	0.0	3.3	-3.3	
45		V'CHAL -RIHAND	S/C	978	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	0	308	0	2	-2	
47		BHANPURA-RANPUR	S/C	14	61	0.0	0.6	-0.6	
48		BHANPURA-MORAK	S/C	0	106	0.0	1.6	-1.6	
49		MEHGAON-AURAIYA	S/C	86	0	1.0	0.0	1.0	
50	132kV	MALANPUR-AURAIYA	S/C	44	15	0.2	0.1	0.1	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						39.8	201.4	-161.6	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	189	211	0.2	4.6	-4.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	914	733	2.6	0.0	2.6	
55		WARDHA-NIZAMABAD	D/C	0	1241	0.0	18.4	-18.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	790	0	14.1	0.0	14.1	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	1	62	0.0	1.0	-1.0	
59		XELDEM-AMBEWADI	S/C	1	36	0.6	0.0	0.6	
WR-SR						17.5	23.9	-6.5	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						44.1	
61		NEPAL						-3.0	
62		BANGLADESH						-25.6	