



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: 16th 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 15.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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

16-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)	56669	42455	37711	22327	2650	161812
Peak Shortage (MW)	2340	0	0	0	209	2549
Energy Met (MU)	1308	965	882	466	50	3672
Hydro Gen (MU)	328	113	163	145	23	773
Wind Gen (MU)	17	86	98	-----	-----	202
Solar Gen (MU)*	23.82	11.5	70.25	2.13	0.03	108
Energy Shortage (MU)	13.4	0.0	0.0	0.0	3.9	17.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	59703 22:14	44175 19:15	37602 09:55	22813 20:43	2716 18:36	163333 19:43

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	0.00	0.00	3.61	3.61	78.82	17.57

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	11020	0	248.8	133.3	-0.9	85	0.0	
	Haryana	9412	0	200.9	138.5	0.4	219	0.0	
	Rajasthan	10476	0	237.1	79.6	-0.3	328	0.0	
	Delhi	5795	0	116.2	93.5	0.0	255	0.0	
	UP	19252	880	393.1	173.0	1.6	599	3.9	
	Uttarakhand	1802	0	38.5	13.9	-0.2	156	0.0	
	HP	1345	0	28.7	1.5	-1.2	44	0.0	
	J&K	2141	535	39.7	18.5	-1.8	151	9.4	
	Chandigarh	275	0	5.5	6.0	-0.5	3	0.0	
	WR	Chhattisgarh	4159	0	93.9	39.8	1.9	314	0.0
Gujarat		12361	0	280.1	75.0	1.4	525	0.0	
MP		7733	0	166.2	66.8	-2.4	231	0.0	
Maharashtra		17012	0	382.4	129.6	-0.6	437	0.0	
Goa		541	0	11.8	10.1	1.1	49	0.0	
DD		294	0	6.8	6.5	0.3	24	0.0	
DNH		765	0	18.2	18.3	-0.1	59	0.0	
Essar steel		320	0	5.8	5.8	0.0	296	0.0	
SR		Andhra Pradesh	7753	0	175.6	31.7	-0.9	450	0.0
		Telangana	8685	0	189.3	41.0	-0.9	578	0.0
	Karnataka	10095	0	185.5	41.8	-0.2	495	0.0	
	Kerala	3180	0	63.1	42.7	1.5	275	0.0	
	Tamil Nadu	11955	0	262.3	110.5	-1.9	496	0.0	
	Pondy	327	0	6.8	7.2	-0.4	33	0.0	
	ER	Bihar	5644	0	108.6	105.6	-1.4	100	0.0
DVC		2918	0	63.1	-19.7	0.5	150	0.0	
Jharkhand		1245	0	26.2	17.7	-1.0	50	0.0	
Odisha		5094	0	102.8	26.9	1.6	473	0.0	
West Bengal		8356	0	164.9	64.1	0.2	400	0.0	
Sikkim		75	0	0.7	1.0	-0.4	20	0.0	
NER	Arunachal Pradesh	109	8	2.1	2.3	-0.3	51	0.0	
	Assam	1673	87	30.8	25.7	0.1	127	3.8	
	Manipur	162	11	2.5	2.4	0.1	17	0.0	
	Meghalaya	307	9	5.5	0.7	0.0	71	0.0	
	Mizoram	81	7	1.7	0.7	0.8	17	0.0	
	Nagaland	119	7	2.2	2.3	-0.3	49	0.0	
	Tripura	298	19	4.8	4.8	0.6	89	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	41.4	-5.3	-25.8
Day peak (MW)	1994.7	-363.2	-1115.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	283.4	-220.8	10.4	-65.6	-3.9	3.5
Actual(MU)	283.8	-226.8	7.0	-47.4	-12.3	4.3
O/D/U/D(MU)	0.4	-6.0	-3.4	18.2	-8.4	0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5826	15600	8812	2360	123	32721
State Sector	6450	20736	9180	6200	50	42615
Total	12276	36335	17992	8560	173	75336

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	579	895	400	381	11	2266
Lignite	21	11	45	0	0	77
Hydro	328	113	163	145	23	773
Nuclear	27	28	60	0	0	116
Gas, Naptha & Diesel	39	45	16	0	26	125
RES (Wind, Solar, Biomass & Others)	56	107	212	2	0	377
Total	1050	1200	896	529	59	3733

Share of RES in total generation (%)	5.33	8.95	23.64	0.41	0.05	10.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	39.19	20.73	48.57	27.92	38.85	33.91

H. Diversity Factor

All India Demand Diversity Factor	1.023
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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 : **16-Sep-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	134	437	0.0	3.6	-3.6
2		SASARAM-FATEHPUR	S/C	279	54	2.3	0.0	2.3
3		GAYA-BALIA	S/C	0	393	0.0	5.2	-5.2
4	HVDC	ALIPURDUAR-AGRA	-	0	1401	0.0	33.8	-33.8
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	201	0.0	4.0	-4.0
7		PUSAULI -ALLAHABAD	S/C	0	62	0.0	0.7	-0.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	803	0.0	10.6	-10.6
9		PATNA-BALIA	Q/C	0	890	0.0	14.2	-14.2
10		BIHARSHARIFF-BALIA	D/C	48	220	0.0	2.9	-2.9
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	242	121	1.0	0.0	1.0
13		220 kV	PUSAULI-SAHUPURI	S/C	0	199	0.0	3.5
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3
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						3.6	83.3	-79.7
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1215	0	19.1	0.0	19.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	967	0	14.9	0.0	14.9
20		JHARSUGUDA-DURG	D/C	306	0	4.4	0.0	4.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	336	0	4.6	0.0	4.6
22		RANCHI-SIPAT	D/C	345	0	5.4	0.0	5.4
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	110	0.0	1.7	-1.7
24		BUDHIPADAR-KORBA	D/C	76	0	1.0	0.0	1.0
ER-WR						49.4	1.7	47.7
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1003.0	0.0	14.6	-14.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	316.0	0.0	7.4	0.0	7.4
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	990.0	0.0	12.5	-12.5
28	400 kV	TALCHER-I/C	D/C	383.0	198.0	6.5	0.0	6.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						7.4	27.2	-19.8
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	574	0.0	9.1	-9
31		ALIPURDUAR-BONGAIGAON	D/C	201	96	1.4	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	101	0.0	1.5	-1
ER-NER						1.4	10.6	-9.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	15.1	-15.1
NER-NR						0.0	15.1	-15.1
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2000	0.0	37.6	-37.6
35		V'CHAL B/B	D/C	454	0	12.1	0.0	12.1
36		APL -MHG	D/C	0	1460	0.0	34.3	-34.3
37	765 kV	GWALIOR-AGRA	D/C	0	2430	0.0	42.0	-42.0
38		PHAGI-GWALIOR	D/C	0	1205	0.0	23.6	-23.6
39		JABALPUR-ORAI	D/C	0	949	0.0	31.3	-31.3
40		GWALIOR-ORAI	S/C	275	0	5.1	0.0	5.1
41		SATNA-ORAI	S/C	0	1441	0.0	29.6	-29.6
42		CHITTORGARH-BANASKANTHA	D/C	0	1324	0.0	20.6	-20.6
43		ZERDA-KANKROLI	S/C	26	197	0.0	2.2	-2.2
44		400 kV	ZERDA -BHINMAL	S/C	0	260	0.0	3.7
45	V'CHAL -RIHAND		S/C	986	0	23.0	0.0	23.0
46	220 kV	RAPP-SHUJALPUR	D/C	0	444	0	7	-7
47		BHANPURA-RANPUR	S/C	2	73	0.0	0.9	-0.9
48		BHANPURA-MORAK	S/C	0	86	0.0	1.5	-1.5
49		MEHGAON-AURAIYA	S/C	56	32	0.2	0.2	0.0
50	132kV	MALANPUR-AURAIYA	S/C	17	67	0.0	0.8	-0.8
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						40.5	235.5	-195.0
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	214	0.0	4.9	-4.9
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	1275	324	10.9	0.2	10.7
55		WARDHA-NIZAMABAD	D/C	19	1056	0.0	12.8	-12.8
56	400 kV	KOLHAPUR-KUDGI	D/C	844	0	14.0	0.0	14.0
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	77	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	0	44	0.7	0.0	0.7
WR-SR						25.5	19.1	6.4
TRANSNATIONAL EXCHANGE								
60		BHUTAN						41.4
61		NEPAL						-5.3
62		BANGLADESH						-25.8