



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: 17<sup>th</sup> Sep 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 16.09.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

17-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)	58896	45195	39574	22771	2729	169165
Peak Shortage (MW)	2826	0	0	0	184	3010
Energy Met (MU)	1341	1022	913	479	51	3806
Hydro Gen (MU)	327	126	169	144	27	794
Wind Gen (MU)	26	83	108	-----	-----	217
Solar Gen (MU)*	30.85	15.6	61.67	2.89	0.03	111
Energy Shortage (MU)	16.0	0.0	0.2	0.0	1.8	17.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	61366 22:38	46762 19:27	41005 18:52	22871 20:00	2678 19:41	171884 19:29

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	0.032	0.00	0.44	6.46	6.90	80.58	12.52

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	10814	0	238.1	128.3	-1.1	103	0.0
	Haryana	9925	0	212.7	146.6	0.5	216	0.0
	Rajasthan	10995	0	243.9	75.7	-0.3	384	0.0
	Delhi	6155	0	124.6	102.0	0.1	177	0.0
	UP	19141	1410	405.3	175.1	1.9	440	6.5
	Uttarakhand	1973	0	41.0	14.3	0.7	154	0.0
	HP	1423	0	29.6	2.5	-0.2	69	0.0
	J&K	2249	562	39.7	17.8	-1.2	312	9.4
WR	Chandigarh	328	0	6.0	6.9	-0.9	-9	0.0
	Chhattisgarh	4240	0	97.0	41.9	1.6	189	0.0
	Gujarat	13692	0	301.1	76.6	1.6	428	0.0
	MP	8107	0	172.7	71.6	-1.5	428	0.0
	Maharashtra	18579	0	407.9	143.5	-0.6	693	0.0
	Goa	541	0	11.8	11.0	0.2	46	0.0
	DD	321	0	7.1	6.7	0.4	33	0.0
	DNH	797	0	18.6	18.6	0.0	38	0.0
SR	Essar steel	315	0	5.5	5.6	-0.1	270	0.0
	Andhra Pradesh	7768	0	172.8	29.7	0.7	496	0.0
	Telangana	9384	0	199.8	45.2	-1.1	578	0.0
	Karnataka	10069	0	188.3	47.3	-0.8	498	0.0
	Kerala	3457	0	67.7	45.8	1.4	184	0.0
	Tamil Nadu	13019	0	276.8	109.6	0.1	499	0.1
	Pondy	351	0	7.4	7.7	-0.3	65	0.0
	Bihar	5512	0	108.4	105.8	-1.7	360	0.0
ER	DVC	2998	0	64.1	-21.5	1.3	205	0.0
	Jharkhand	1190	0	25.1	17.5	-1.4	30	0.0
	Odisha	4946	0	105.3	26.4	4.8	473	0.0
	West Bengal	8680	0	175.3	71.9	1.5	170	0.0
	Sikkim	100	0	1.0	1.2	-0.2	5	0.0
NER	Arunachal Pradesh	129	7	2.2	3.2	-1.0	13	0.0
	Assam	1722	64	31.6	24.9	1.1	146	1.6
	Manipur	159	8	2.6	2.3	0.3	14	0.0
	Meghalaya	310	4	5.4	0.6	-0.3	51	0.0
	Mizoram	81	6	1.6	0.4	1.0	39	0.0
	Nagaland	127	7	2.1	2.4	-0.5	37	0.0
	Tripura	297	18	5.9	5.3	0.8	65	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.7	-5.3	-25.7
Day peak (MW)	1952.0	-342.4	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	301.0	-231.2	12.9	-69.5	-6.2	7.1
Actual(MU)	306.5	-240.9	5.1	-60.1	-6.4	4.2
O/D/U/D(MU)	5.5	-9.7	-7.8	9.4	-0.3	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5826	14795	9022	1700	123	31466
State Sector	7070	20871	8690	6200	50	42880
Total	12896	35666	17712	7900	173	74346

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	568	933	413	415	11	2339
Lignite	22	11	47	0	0	80
Hydro	327	126	169	144	27	794
Nuclear	27	28	60	0	0	115
Gas, Naptha & Diesel	40	52	16	0	25	133
RES (Wind, Solar, Biomass & Others)	71	110	213	3	0	397
Total	1055	1260	918	562	64	3858

Share of RES in total generation (%)	6.71	8.69	23.22	0.52	0.05	10.28
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.33	20.88	48.17	26.18	43.24	33.83

H. Diversity Factor

All India Demand Diversity Factor	1.016
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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 : 17-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)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	578	0.0	8.2	-8.2	
2		SASARAM-FATEHPUR	S/C	118	199	0.0	0.3	-0.3	
3		GAYA-BALIA	S/C	0	419	0.0	6.7	-6.7	
4		ALIPURDUAR-AGRA	-	0	1401	0.0	29.7	-29.7	
5		PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	180	0.0	3.4	-3.4	
7		PUSAULI -ALLAHABAD	S/C	0	96	0.0	1.2	-1.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1201	0.0	15.9	-15.9	
9		PATNA-BALIA	Q/C	0	1032	0.0	18.2	-18.2	
10		BIHARSHARIFF-BALIA	D/C	0	393	0.0	5.7	-5.7	
11		MOTIHARI-GORAKHPUR	D/C	14	8	0.0	0.0	0.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	46	295	0.0	2.0	-2.0	
13		PUSAULI-SAHUPURI	S/C	0	190	0.0	3.5	-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	0.4	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	
<b>ER-NR</b>						<b>0.4</b>	<b>99.4</b>	<b>-99.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	1006	0	17.5	0.0	17.5	
19		NEW RANCHI-DHARAMAJGARH	D/C	844	0	13.7	0.0	13.7	
20		JHARSUGUDA-DURG	D/C	264	0	3.9	0.0	3.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	275	97	2.9	0.0	2.9	
22		RANCHI-SIPAT	D/C	299	0	5.1	0.0	5.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	113	0.0	1.9	-1.9	
24		BUDHIPADAR-KORBA	D/C	69	8	0.5	0.0	0.5	
<b>ER-WR</b>						<b>43.5</b>	<b>1.9</b>	<b>41.6</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1272.0	0.0	18.6	-18.6	
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	490.0	0.0	12.1	-12.1	
28	400 kV	TALCHER-I/C	D/C	363.0	0.0	7.2	0.0	7.2	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>7.4</b>	<b>30.7</b>	<b>-23.3</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	401	382	0.0	4.2	-4	
31		ALIPURDUAR-BONGAIGAON	D/C	408	136	4.1	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	30	109	0.0	0.9	-1	
<b>ER-NER</b>						<b>4.1</b>	<b>5.1</b>	<b>-1.1</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	1	503	0.0	9.2	-9.2	
<b>NER-NR</b>						<b>0.0</b>	<b>9.2</b>	<b>-9.2</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2501	0.0	39.9	-39.9	
35		V'CHAL B/B	D/C	455	203	9.5	0.3	9.2	
36		APL -MHG	D/C	0	2379	0.0	36.7	-36.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2455	0.0	44.1	-44.1	
38		PHAGI-GWALIOR	D/C	0	1156	0.0	21.9	-21.9	
39		JABALPUR-ORAI	D/C	0	938	0.0	33.3	-33.3	
40		GWALIOR-ORAI	S/C	255	0	4.8	0.0	4.8	
41		SATNA-ORAI	S/C	0	1463	0.0	29.2	-29.2	
42		CHITTORGARH-BANASKANTHA	D/C	0	1265	0.0	21.7	-21.7	
43	400 kV	ZERDA-KANKROLI	S/C	9	170	0.0	2.1	-2.1	
44		ZERDA -BHINMAL	S/C	33	229	0.0	2.0	-2.0	
45		V'CHAL -RIHAND	S/C	977	0	22.9	0.0	22.9	
46		RAPP-SHUJALPUR	D/C	0	453	0	7	-7	
47	220 kV	BHANPURA-RANPUR	S/C	18	76	0.0	0.7	-0.7	
48		BHANPURA-MORAK	S/C	0	98	0.0	1.4	-1.4	
49		MEHGAON-AURAIYA	S/C	40	28	0.2	0.1	0.1	
50		MALANPUR-AURAIYA	S/C	7	59	0.0	0.7	-0.7	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>37.4</b>	<b>240.8</b>	<b>-203.4</b>	
<b>Import/Export of WR (With SR)</b>									
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	1300	628	11.6	0.9	10.7	
55		WARDHA-NIZAMABAD	D/C	0	1370	0.0	17.0	-17.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	810	0	12.8	0.0	12.8	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	66	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	38	0.7	0.0	0.7	
<b>WR-SR</b>						<b>25.0</b>	<b>24.1</b>	<b>1.0</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>43.7</b>	
61		NEPAL						<b>-5.3</b>	
62		BANGLADESH						<b>-25.7</b>	