



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: 18<sup>th</sup> Sept 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, 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 17.09.2018.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-सितंबर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 17<sup>th</sup> September 2018, 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

18-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	53967	50178	40952	20523	2632	168252
Peak Shortage (MW)	717	0	0	474	22	1213
Energy Met (MU)	1211	1211	927	424	50	3822
Hydro Gen (MU)	253	43	96	125	28	545
Wind Gen (MU)	10	27	95	-----	-----	132
Solar Gen (MU)*	19.80	18.23	41.69	0.00	0.03	80
Energy Shortage (MU)	9.6	0.0	0.0	1.4	0.3	11.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	55383 19:39	53236 11:21	41948 19:01	20695 21:50	2668 18:34	169990 19:21

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	0.029	0.00	0.25	5.35	5.60	85.15	9.25

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	9358	0	219.8	88.9	-0.1	125	0.0	
	Haryana	8645	0	182.1	122.1	2.1	409	0.0	
	Rajasthan	9900	0	218.8	53.8	1.5	440	0.0	
	Delhi	5075	0	106.1	83.1	-0.8	174	0.0	
	UP	17667	280	374.5	159.1	-0.1	335	0.3	
	Uttarakhand	1830	0	37.9	15.4	1.5	228	0.0	
	HP	1373	0	26.9	5.2	2.5	248	0.0	
	J&K	2056	514	39.6	28.0	-5.0	43	9.3	
	Chandigarh	248	0	4.9	5.3	-0.3	34	0.0	
	WR	Chhattisgarh	4077	0	92.0	25.9	-2.0	151	0.0
Gujarat		17449	0	381.6	108.7	7.5	1097	0.0	
MP		9223	0	202.5	87.3	2.3	519	0.0	
Maharashtra		22804	0	488.0	165.6	0.9	730	0.0	
Goa		425	0	11.0	8.7	-0.1	68	0.0	
DD		327	0	7.2	6.2	1.0	77	0.0	
DNH		746	0	17.6	16.8	0.9	97	0.0	
Essar steel		535	0	10.9	11.5	-0.6	256	0.0	
SR		Andhra Pradesh	7331	0	162.6	32.8	0.3	584	0.0
		Telangana	10475	0	209.6	106.1	-0.5	446	0.0
	Karnataka	8931	0	193.0	48.9	-0.2	880	0.0	
	Kerala	3590	0	69.6	44.6	1.1	231	0.0	
	Tamil Nadu	13546	0	284.9	104.2	-1.5	555	0.0	
	Pondy	330	0	6.9	7.2	-0.3	28	0.0	
	ER	Bihar	4973	0	97.8	95.5	1.8	100	0.6
DVC		2447	0	49.8	-26.8	7.2	560	0.8	
Jharkhand		1000	0	23.7	17.2	-0.9	20	0.0	
Odisha		4583	0	92.9	26.0	-0.4	200	0.0	
West Bengal		8021	0	159.1	58.0	3.4	400	0.0	
Sikkim		85	0	1.0	1.2	-0.2	0	0.0	
NER	Arunachal Pradesh	120	4	2.6	2.5	0.1	34	0.0	
	Assam	1712	11	31.5	24.3	0.9	243	0.2	
	Manipur	178	2	2.2	2.2	0.0	47	0.0	
	Meghalaya	265	4	4.5	0.1	-0.3	46	0.0	
	Mizoram	75	2	1.7	1.0	0.4	11	0.0	
	Nagaland	114	5	2.4	1.8	0.2	13	0.0	
	Tripura	271	4	5.2	4.0	0.3	67	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	36.9	-3.4	-22.3
Day peak (MW)	1560.3	-333.0	-982.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.1	-191.4	50.0	-57.5	-5.2	-2.0
Actual(MU)	195.3	-186.2	33.1	-37.6	-5.4	-0.8
O/D/U/D(MU)	-6.8	5.2	-16.9	19.9	-0.2	1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2859	14982	6242	1620	118	25821
State Sector	6980	11760	6783	7115	50	32688
Total	9839	26742	13025	8735	168	58509

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	681	1224	571	372	7	2854
Hydro	253	43	96	125	28	545
Nuclear	23	27	36	0	0	86
Gas, Naptha & Diesel	31	73	25	0	24	153
RES (Wind, Solar, Biomass & Others)	49	46	178	0	0	272
Total	1037	1412	906	497	59	3911

Share of RES in total generation (%)	4.70	3.23	19.61	0.01	0.09	6.96
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.35	8.19	34.20	25.16	46.82	23.09

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 : 18-Sep-18

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	206	297	0.0	1.4	-1.4	
2		SASARAM-FATEHPUR	S/C	504	0	7.9	0.0	7.9	
3		GAYA-BALIA	S/C	0	301	0.0	5.1	-5.1	
4		ALIPURDUAR-AGRA	-	0	1505	0.0	36.4	-36.4	
5	400 kV	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	328	0.0	6.8	-6.8	
7		PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.7	-2.7	
8		MUZAFFARPUR-GORAKHPUR	D/C	174	574	0.0	6.9	-6.9	
9		PATNA-BALIA	Q/C	0	654	0.0	11.3	-11.3	
10		BIHARSHARIFF-BALIA	D/C	79	161	0.0	1.6	-1.6	
11		MOTIHARI-GORAKHPUR	D/C	204	0	4.1	0.0	4.1	
12		BIHARSHARIFF-VARANASI	D/C	348	9	3.7	0.0	3.7	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	157	0.0	3.4	-3.4
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	35	0	0.7	0.0	0.7
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>16.4</b>	<b>85.4</b>	<b>-69.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1006	0	10.5	0.0	10.5	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1191	0	16.4	0.0	16.4	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	994	0	14.0	0.0	14.0	
21		RANCHI-SIPAT	D/C	613	0	9.6	0.0	9.6	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	212	0	2.9	0.0	2.9	
<b>ER-WR</b>						<b>53.3</b>	<b>0.0</b>	<b>53.3</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1374.0	0.0	22.2	-22.2	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	576.0	0.0	12.5	-12.5	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1881.0	0.0	25.8	-25.8	
27	400 kV	TALCHER-I/C	D/C	5.0	687.0	12.3	0.0	12.3	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>0.0</b>	<b>60.5</b>	<b>-60.5</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	744	0.0	9.6	-10	
30		ALIPURDUAR-BONGAIGAON	D/C	363	78	4.5	0.0	4	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	128	0.0	1.7	-2	
<b>ER-NER</b>						<b>4.5</b>	<b>11.3</b>	<b>-6.8</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	701	0.0	16.5	-16.5	
<b>NER-NR</b>						<b>0.0</b>	<b>16.5</b>	<b>-16.5</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	601	0.0	14.3	-14.3	
34		V'CHAL B/B	D/C	243	0	6.1	0.0	6.1	
35		APL -MHG	D/C	0	1360	0.0	29.1	-29.1	
36		GWALIOR-AGRA	D/C	0	1166	0.0	40.0	-40.0	
37	765 kV	PHAGI-GWALIOR	D/C	0	1236	0.0	23.1	-23.1	
38		JABALPUR-ORAI	D/C	0	561	0.0	16.5	-16.5	
39		GWALIOR-ORAI	S/C	367	0	7.2	0.0	7.2	
40		SATNA-ORAI	S/C	0	1852	0.0	39.6	-39.6	
41		400 kV	ZERDA-KANKROLI	S/C	303	0	4.2	0.0	4.2
42			ZERDA -BHINMAL	S/C	189	58	1.6	0.0	1.6
43	V'CHAL -RIHAND		S/C	963	0	22.2	0.0	22.2	
44	RAPP-SHUJALPUR		D/C	92	297	0	1	-1	
45	220 kV	BADOD-KOTA	S/C	59	19	0.9	0.0	0.9	
46		BADOD-MORAK	S/C	43	32	0.3	0.1	0.2	
47		MEHGAON-AURAIYA	S/C	52	0	0.5	0.0	0.5	
48	132kV	MALANPUR-AURAIYA	S/C	25	30	0.1	0.2	-0.1	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>43.1</b>	<b>163.7</b>	<b>-120.6</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	992	0.0	13.3	-13.3	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1447	942	9.3	0.0	9.3	
53		WARDHA-NIZAMABAD	D/C	0	1871	0.0	24.9	-24.9	
54	400 kV	KOLHAPUR-KUDGI	D/C	1003	0	16.6	0.0	16.6	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	1	100	1.6	0.0	1.6	
<b>WR-SR</b>						<b>27.6</b>	<b>38.2</b>	<b>-10.6</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>36.9</b>	
59		NEPAL						<b>-3.4</b>	
60		BANGLADESH						<b>-22.3</b>	