



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: 19<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 18.09.2018.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18<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

19-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	55650	51889	42837	21575	2731	174682
Peak Shortage (MW)	759	261	0	380	94	1494
Energy Met (MU)	1240	1231	920	442	54	3887
Hydro Gen (MU)	242	42	80	123	28	514
Wind Gen (MU)	20	39	126	-----	-----	185
Solar Gen (MU)*	20.85	18.81	56.37	0.79	0.01	97
Energy Shortage (MU)	10.6	0.7	0.0	1.4	0.8	13.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56539 19:22	54701 14:14	42686 18:56	21764 19:16	2850 18:37	175590 19:16

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	0.39	4.78	5.17	87.04	7.79

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	9678	0	224.9	88.1	-0.4	135	0.0	
	Haryana	8744	0	184.9	121.2	1.5	202	0.0	
	Rajasthan	10083	0	226.2	56.3	1.8	391	0.0	
	Delhi	5075	0	107.5	82.9	0.3	255	0.1	
	UP	17948	130	383.6	163.2	0.7	365	0.0	
	Uttarakhand	1775	135	39.1	18.8	0.3	201	1.1	
	HP	1420	0	29.1	6.3	3.5	305	0.0	
	J&K	2023	506	39.5	28.2	-3.9	136	9.4	
	Chandigarh	255	0	5.0	5.0	0.0	28	0.0	
	WR	Chhattisgarh	4039	58	94.4	26.7	-0.8	448	0.7
Gujarat		17369	0	388.0	126.3	4.7	648	0.0	
MP		9370	0	209.3	94.1	3.2	459	0.0	
Maharashtra		22798	0	491.0	155.4	-1.1	611	0.0	
Goa		475	0	12.1	9.2	0.1	87	0.0	
DD		353	0	7.4	6.1	1.4	175	0.0	
DNH		787	0	18.3	17.3	1.0	136	0.0	
Essar steel		510	0	10.5	10.6	-0.1	221	0.0	
SR		Andhra Pradesh	7170	0	162.0	30.2	0.5	799	0.0
		Telangana	9013	0	189.1	83.4	-0.4	775	0.0
	Karnataka	9165	0	195.6	45.7	-1.4	536	0.0	
	Kerala	3632	0	70.5	46.7	0.9	180	0.0	
	Tamil Nadu	14135	0	295.6	102.7	-3.4	380	0.0	
	Pondy	324	0	7.1	7.6	-0.4	61	0.0	
	ER	Bihar	5011	0	97.9	97.3	0.1	20	0.0
		DVC	2550	-1	49.1	-28.5	7.5	520	1.4
		Jharkhand	1000	0	24.2	17.6	-0.2	90	0.0
		Odisha	4923	0	96.5	25.8	1.8	250	0.0
West Bengal		8778	0	169.5	64.0	7.1	400	0.0	
Sikkim		93	0	1.1	1.3	-0.2	0	0.0	
NER	Arunachal Pradesh	130	3	2.4	2.5	-0.1	73	0.0	
	Assam	1829	56	34.1	26.2	1.8	229	0.7	
	Manipur	183	2	2.4	2.4	0.1	96	0.0	
	Meghalaya	311	0	5.2	-0.9	0.4	52	0.0	
	Mizoram	70	4	1.7	1.2	-0.1	9	0.0	
	Nagaland	118	3	2.5	1.8	-0.5	15	0.0	
	Tripura	290	2	5.5	4.4	0.4	58	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	34.1	-4.9	-22.0
Day peak (MW)	1443.5	-406.2	-983.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	212.9	-187.9	34.2	-56.6	-2.6	0.0
Actual(MU)	203.5	-187.9	9.8	-30.3	-2.0	-6.9
O/D/U/D(MU)	-9.4	0.0	-24.4	26.3	0.6	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3239	14022	5782	1870	97	25010
State Sector	6270	11868	6403	6905	50	31496
Total	9509	25890	12185	8775	147	56505

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	698	1249	561	384	7	2899
Hydro	242	46	80	123	28	518
Nuclear	23	26	33	0	0	82
Gas, Naptha & Diesel	41	57	25	0	24	147
RES (Wind, Solar, Biomass & Others)	59	54	225	1	0	338
Total	1062	1431	924	507	59	3984

Share of RES in total generation (%)	5.51	3.75	24.36	0.16	0.06	8.49
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.48	8.73	36.60	24.33	47.22	23.55

H. Diversity Factor

All India Demand Diversity Factor	1.017
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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 : 19-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	145	371	0.0	3.3	-3.3	
2		SASARAM-FATEHPUR	S/C	570	0	7.8	0.0	7.8	
3		GAYA-BALIA	S/C	0	316	0.0	5.3	-5.3	
4		ALIPURDUAR-AGRA	-	0	1502	0.0	35.1	-35.1	
5	400 kV	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	317	0.0	6.6	-6.6	
7		PUSAULI -ALLAHABAD	S/C	0	166	0.0	2.8	-2.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	40	642	0.0	7.3	-7.3	
9		PATNA-BALIA	Q/C	0	684	0.0	10.4	-10.4	
10		BIHARSHARIFF-BALIA	D/C	95	161	0.0	1.6	-1.6	
11		MOTIHARI-GORAKHPUR	D/C	274	0	4.3	0.0	4.3	
12		BIHARSHARIFF-VARANASI	D/C	332	39	3.6	0.0	3.6	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	166	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	0.0	0.0	0.0	
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>15.7</b>	<b>85.5</b>	<b>-69.8</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	879	39	8.4	0.0	8.4	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1179	0	17.9	0.0	17.9	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	934	0	15.0	0.0	15.0	
21		RANCHI-SIPAT	D/C	606	0	10.3	0.0	10.3	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	224	0	3.2	0.0	3.2	
<b>ER-WR</b>						<b>54.9</b>	<b>0.0</b>	<b>54.9</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1268.0	0.0	18.5	-18.5	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	484.0	0.0	11.2	-11.2	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1280.0	0.0	23.8	-23.8	
27	400 kV	TALCHER-I/C	D/C	0.0	463.0	14.0	0.0	14.0	
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>53.5</b>	<b>-53.5</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	766	0.0	9.3	-9	
30		ALIPURDUAR-BONGAIGAON	D/C	422	157	4.1	0.0	4	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	141	0.0	1.8	-2	
<b>ER-NER</b>						<b>4.1</b>	<b>11.1</b>	<b>-7.0</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	700	0.0	13.6	-13.6	
<b>NER-NR</b>						<b>0.0</b>	<b>13.6</b>	<b>-13.6</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1000	0.0	16.0	-16.0	
34		V'CHAL B/B	D/C	243	0	6.1	0.0	6.1	
35		APL -MHG	D/C	0	1218	0.0	29.3	-29.3	
36		GWALIOR-AGRA	D/C	0	1281	0.0	47.2	-47.2	
37	765 kV	PHAGI-GWALIOR	D/C	0	1333	0.0	26.2	-26.2	
38		JABALPUR-ORAI	D/C	0	585	0.0	19.6	-19.6	
39		GWALIOR-ORAI	S/C	542	0	7.9	0.0	7.9	
40		SATNA-ORAI	S/C	0	1894	0.0	42.6	-42.6	
41		400 kV	ZERDA-KANKROLI	S/C	330	0	4.4	0.0	4.4
42			ZERDA -BHINMAL	S/C	234	64	2.1	0.0	2.1
43	V'CHAL -RIHAND		S/C	964	0	22.5	0.0	22.5	
44	RAPP-SHUJALPUR		D/C	63	324	0	1	-1	
45	220 kV	BADOD-KOTA	S/C	47	23	0.6	0.1	0.5	
46		BADOD-MORAK	S/C	42	44	0.1	0.3	-0.1	
47		MEHGAON-AURAIYA	S/C	70	0	0.8	0.0	0.8	
48	132kV	MALANPUR-AURAIYA	S/C	40	16	0.2	0.1	0.1	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>44.6</b>	<b>182.4</b>	<b>-137.8</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	315	0.0	7.1	-7.1	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1510	576	15.2	0.0	15.2	
53		WARDHA-NIZAMABAD	D/C	0	1610	0.0	16.3	-16.3	
54	400 kV	KOLHAPUR-KUDGI	D/C	1076	0	18.2	0.0	18.2	
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	0	103	2.0	0.0	2.0	
<b>WR-SR</b>						<b>35.4</b>	<b>23.4</b>	<b>12.0</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>34.1</b>	
59		NEPAL						<b>-4.9</b>	
60		BANGLADESH						<b>-22.0</b>	