



**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: 29<sup>th</sup> Sept 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, 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 28.09.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-सितंबर-2018 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 28<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

29-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	47318	50412	41710	21185	2667	163292
Peak Shortage (MW)	1363	238	0	1060	137	2798
Energy Met (MU)	1033	1221	948	463	49	3715
Hydro Gen (MU)	271	55	97	112	24	559
Wind Gen (MU)	7	16	21	-----	-----	45
Solar Gen (MU)*	19.90	20.5	53.75	1.14	0.02	95
Energy Shortage (MU)	15.1	0.8	0.0	0.0	1.4	17.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48094	53413	42101	22190	2744	165425
	19:11	10:56	10:08	21:48	19:05	19:48

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	0.072	0.96	2.55	14.32	17.82	78.98	3.19

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	6527	0	141.1	32.2	-1.2	153	0.0	
	Haryana	7029	188	132.6	109.1	0.4	238	0.6	
	Rajasthan	9467	0	207.5	49.8	0.6	301	0.0	
	Delhi	4398	0	93.3	69.2	-0.9	99	0.0	
	UP	16295	0	350.8	160.0	0.1	346	1.7	
	Uttarakhand	1762	0	36.3	14.8	1.9	445	3.3	
	HP	1402	0	27.5	7.7	0.7	180	0.0	
	J&K	1997	499	39.9	27.9	-3.7	468	9.5	
	Chandigarh	225	0	4.4	4.8	-0.4	10	0.0	
	WR	Chhattisgarh	4380	0	100.6	29.6	-0.6	450	0.8
Gujarat		17250	0	388.6	117.1	6.3	712	0.0	
MP		9185	0	201.8	82.4	3.4	600	0.0	
Maharashtra		21970	0	481.5	178.3	3.4	600	0.0	
Goa		460	0	12.3	9.4	-0.3	85	0.0	
DD		303	0	6.6	5.5	1.1	123	0.0	
DNH		777	0	18.3	16.9	1.4	127	0.0	
Essar steel		549	0	11.1	11.5	-0.4	226	0.0	
SR		Andhra Pradesh	7985	0	176.0	56.7	1.3	479	0.0
		Telangana	10134	0	217.1	99.4	2.2	498	0.0
	Karnataka	8185	0	171.8	39.0	-0.8	367	0.0	
	Kerala	3388	0	69.4	42.5	0.9	172	0.0	
	Tamil Nadu	13793	0	306.4	176.2	-1.2	493	0.0	
	Pondy	355	0	7.6	7.4	0.1	43	0.0	
	ER	Bihar	5062	0	101.4	97.7	1.0	100	0.0
		DVC	2903	0	60.7	-18.9	3.9	250	0.0
		Jharkhand	1000	0	24.9	18.1	1.0	100	0.0
		Odisha	4664	0	98.7	27.1	6.6	800	0.0
West Bengal		8955	0	176.3	73.9	3.5	400	0.0	
Sikkim		91	0	1.1	1.1	0.0	60	0.0	
NER	Arunachal Pradesh	123	4	2.3	2.2	0.1	49	0.0	
	Assam	1749	84	30.6	24.8	0.7	193	1.3	
	Manipur	160	5	2.3	2.2	0.1	31	0.0	
	Meghalaya	285	0	5.0	0.8	0.2	58	0.0	
	Mizoram	72	3	1.6	0.9	0.3	25	0.0	
	Nagaland	120	6	2.2	1.6	0.3	47	0.0	
	Tripura	282	2	4.9	3.8	0.2	115	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	22.7	-4.6	-22.1
Day peak (MW)	1033.7	-230.0	619.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	101.2	-157.0	77.1	-19.9	-0.8	0.6
Actual(MU)	82.4	-157.0	76.3	-1.2	-0.8	-0.2
O/D/U/D(MU)	-18.8	0.0	-0.8	18.8	0.0	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3094	17343	5742	1560	402	28140
State Sector	8980	13291	6920	6295	50	35536
Total	12074	30634	12662	7855	451	63675

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	595	1182	614	371	5	2767
Hydro	271	55	97	112	24	559
Nuclear	23	27	29	0	0	80
Gas, Naptha & Diesel	51	84	25	0	24	184
RES (Wind, Solar, Biomass & Others)	47	38	114	1	0	200
Total	987	1386	880	484	53	3790

Share of RES in total generation (%)	4.78	2.71	12.98	0.24	0.05	5.28
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.55	8.66	27.33	23.33	46.11	22.13

H. Diversity Factor

All India Demand Diversity Factor	1.019
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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 : 29-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	593	0	9.1	0.0	9.1	
2		SASARAM-FATEHPUR	S/C	607	0	5.3	0.0	5.3	
3		GAYA-BALIA	S/C	37	119	0.0	0.5	-0.5	
4		ALIPURDUAR-AGRA	-	0	1200	0.0	12.5	-12.5	
5	400 kV	PUSAULI B/B	S/C	0	400	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	356	0.0	7.7	-7.7	
7		PUSAULI -ALLAHABAD	S/C	0	122	0.0	1.8	-1.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	370	390	0.0	0.9	-0.9	
9		PATNA-BALIA	Q/C	26	295	0.0	2.8	-2.8	
10		BIHARSHARIFF-BALIA	D/C	260	39	2.6	0.0	2.6	
11		MOTIHARI-GORAKHPUR	D/C	203	0	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	594	0	8.0	0.0	8.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	200	0.0	4.1	-4.1
14			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	132 kV	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>25.7</b>	<b>39.9</b>	<b>-14.3</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1486	0	28.3	0.0	28.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1030	55	13.7	0.0	13.7	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1183	0	18.0	0.0	18.0	
21		RANCHI-SIPAT	D/C	548	0	8.2	0.0	8.2	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	244	0	4.0	0.0	4.0	
<b>ER-WR</b>						<b>72.2</b>	<b>0.0</b>	<b>72.2</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1633.0	0.0	26.3	-26.3	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	360.0	0.0	8.6	-8.6	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1750.0	0.0	40.5	-40.5	
27	400 kV	TALCHER-I/C	D/C	0.0	1010.0	0.0	18.7	-18.7	
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>75.3</b>	<b>-75.3</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	1246	775	0.0	9.3	-9	
30		ALIPURDUAR-BONGAIGAON	D/C	185	703	0.0	2.3	-2	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	171	0.0	1.7	-2	
<b>ER-NER</b>						<b>0.0</b>	<b>13.3</b>	<b>-13.3</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	1380	0.0	16.2	-16.2	
<b>NER-NR</b>						<b>0.0</b>	<b>16.2</b>	<b>-16.2</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	1	1363	0.0	20.3	-20.3	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	1642	0.0	36.8	-36.8	
36		GWALIOR-AGRA	D/C	0	568	0.0	17.1	-17.1	
37	765 kV	PHAGI-GWALIOR	D/C	0	614	0.0	0.0	0.0	
38		JABALPUR-ORAI	D/C	299	76	0.0	3.4	-3.4	
39		GWALIOR-ORAI	S/C	317	0	6.1	0.0	6.1	
40		SATNA-ORAI	S/C	0	1402	0.0	31.3	-31.3	
41		400 kV	ZERDA-KANKROLI	S/C	531	0	10.5	0.0	10.5
42			ZERDA -BHINMAL	S/C	383	0	6.8	0.0	6.8
43	V'CHAL -RIHAND		S/C	485	0	11.0	0.0	11.0	
44	RAPP-SHUJALPUR		D/C	330	0	0	3	-3	
45	220 kV	BADOD-KOTA	S/C	98	0	1.8	0.0	1.8	
46		BADOD-MORAK	S/C	128	0	1.4	0.0	1.4	
47		MEHGAON-AURAIYA	S/C	149	0	2.3	0.0	2.3	
48	132kV	MALANPUR-AURAIYA	S/C	112	0	1.6	0.0	1.6	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>47.5</b>	<b>111.5</b>	<b>-64.1</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.1	-23.1	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	937	444	2.5	0.0	2.5	
53		WARDHA-NIZAMABAD	D/C	0	1650	0.0	26.7	-26.7	
54	400 kV	KOLHAPUR-KUDGI	D/C	1253	0	22.2	0.0	22.2	
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	1	95	1.1	0.0	1.1	
<b>WR-SR</b>						<b>25.8</b>	<b>49.8</b>	<b>-24.0</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>22.7</b>	
59		NEPAL						<b>-4.6</b>	
60		BANGLADESH						<b>-22.1</b>	