



**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: 22<sup>nd</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 21.09.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<sup>st</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

22-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	52743	48924	41342	17515	2676	163200
Peak Shortage (MW)	506	0	35	250	160	951
Energy Met (MU)	1207	1201	922	370	51	3750
Hydro Gen (MU)	239	27	92	115	24	497
Wind Gen (MU)	15	64	155	-----	-----	234
Solar Gen (MU)*	19.31	16.8	39.62	0.78	0.00	77
Energy Shortage (MU)	10.3	0.0	0.0	-0.8	1.6	11.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	54666 00:51	54470 02:41	41061 18:59	18478 20:28	2786 18:05	164877 19:25

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	0.022	0.00	0.00	2.22	2.22	86.33	11.45

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	10066	0	238.2	108.6	-1.2	50	0.0	
	Haryana	8352	0	181.5	126.7	0.5	218	0.0	
	Rajasthan	10554	0	230.1	60.4	1.5	507	0.0	
	Delhi	4976	0	104.2	77.0	-1.1	254	0.1	
	UP	16646	0	333.9	149.1	-0.9	191	0.0	
	Uttarakhand	1996	0	40.7	20.4	0.9	254	0.0	
	HP	1439	0	30.0	8.8	0.8	236	0.0	
	J&K	2075	519	42.8	33.5	-6.0	-26	10.2	
	Chandigarh	254	0	5.2	5.3	-0.1	23	0.0	
	WR	Chhattisgarh	3703	0	75.3	19.4	-4.3	438	0.0
Gujarat		18221	0	403.2	110.7	5.6	585	0.0	
MP		9355	0	199.5	93.3	-0.7	613	0.0	
Maharashtra		22399	0	474.0	150.7	0.1	501	0.0	
Goa		460	0	12.6	9.9	-0.3	67	0.0	
DD		330	0	7.5	6.0	1.5	106	0.0	
DNH		781	0	18.3	17.1	1.2	164	0.0	
Essar steel		488	0	10.7	10.7	0.0	235	0.0	
SR		Andhra Pradesh	6969	0	153.3	12.3	0.9	498	0.0
		Telangana	8411	0	182.5	86.6	0.2	495	0.0
	Karnataka	9678	0	199.2	29.6	0.5	489	0.0	
	Kerala	3396	0	68.8	41.9	1.6	256	0.0	
	Tamil Nadu	14406	0	310.6	103.0	0.9	491	0.0	
	Pondy	342	0	7.5	7.4	0.1	51	0.0	
	ER	Bihar	3973	0	65.8	69.3	-3.8	400	0.0
DVC		2917	1	60.7	-23.5	6.9	375	-0.8	
Jharkhand		972	0	19.1	14.4	-1.2	40	0.0	
Odisha		4490	0	90.0	18.3	2.3	350	0.0	
West Bengal		7201	0	133.6	45.9	0.5	50	0.0	
Sikkim		97	0	1.2	1.0	0.2	10	0.0	
NER	Arunachal Pradesh	125	3	2.4	2.6	-0.2	42	0.0	
	Assam	1752	114	32.8	26.7	1.0	206	1.4	
	Manipur	183	3	2.3	2.3	0.1	54	0.0	
	Meghalaya	280	0	4.9	0.3	0.2	88	0.0	
	Mizoram	75	3	1.4	1.1	0.0	16	0.0	
	Nagaland	123	2	2.3	1.8	0.2	37	0.0	
	Tripura	270	5	4.5	4.1	-0.4	150	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	30.1	-3.4	-21.9
Day peak (MW)	1368.6	-210.0	-989.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	248.2	-188.5	-5.3	-56.9	3.4	0.9
Actual(MU)	235.1	-180.6	-5.6	-53.3	3.0	-1.4
O/D/U/D(MU)	-13.1	7.9	-0.3	3.6	-0.4	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2739	16197	7492	2120	439	28987
State Sector	6880	13546	7100	6305	50	33881
Total	9619	29743	14592	8425	489	62868

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	643	1214	565	333	4	2758
Hydro	239	27	92	115	24	497
Nuclear	23	27	19	0	0	70
Gas, Naptha & Diesel	38	49	23	0	22	133
RES (Wind, Solar, Biomass & Others)	53	81	238	1	0	373
Total	996	1397	937	449	50	3829

Share of RES in total generation (%)	5.34	5.78	25.39	0.18	0.04	9.73
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.66	9.64	37.23	25.82	48.11	24.52

H. Diversity Factor

All India Demand Diversity Factor	1.040
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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 : 22-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	62	431	0.0	4.3	-4.3	
2		SASARAM-FATEHPUR	S/C	314	0	4.3	0.0	4.3	
3		GAYA-BALIA	S/C	0	333	0.0	5.0	-5.0	
4		ALIPURDUAR-AGRA	-	0	1501	0.0	34.1	-34.1	
5	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.6	-9.6	
6		PUSAULI-VARANASI	S/C	0	295	0.0	6.2	-6.2	
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	170	0.0	3.2	-3.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	591	0.0	7.5	-7.5	
9		PATNA-BALIA	Q/C	0	693	0.0	10.7	-10.7	
10		BIHARSHARIFF-BALIA	D/C	52	177	0.0	1.8	-1.8	
11		MOTIHARI-GORAKHPUR	D/C	257	2	3.0	0.0	3.0	
12		BIHARSHARIFF-VARANASI	D/C	226	43	1.5	0.0	1.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	166	0.0	3.1	-3.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	35	0	0.2	0.0	0.2	
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>9.0</b>	<b>85.5</b>	<b>-76.5</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	947	0	13.8	0.0	13.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	991	0	11.5	0.0	11.5	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	943	0	12.3	0.0	12.3	
21		RANCHI-SIPAT	D/C	564	0	8.3	0.0	8.3	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	259	4	2.8	0.0	2.8	
						<b>ER-WR</b>	<b>48.6</b>	<b>0.0</b>	<b>48.6</b>
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1413.0	0.0	18.9	-18.9	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	490.0	0.0	11.3	-11.3	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	903.0	0.0	13.9	-13.9	
27	400 kV	TALCHER-I/C	D/C	0.0	341.0	15.7	0.0	15.7	
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>44.1</b>	<b>-44.1</b>
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	857	0.0	15.1	-15	
30		ALIPURDUAR-BONGAIGAON	D/C	155	317	0.0	0.5	0	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	165	0.0	2.4	-2	
						<b>ER-NER</b>	<b>0.0</b>	<b>18.0</b>	<b>-18.0</b>
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	702	0.0	17.1	-17.1	
						<b>NER-NR</b>	<b>0.0</b>	<b>17.1</b>	<b>-17.1</b>
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1012	0.0	23.9	-23.9	
34		V'CHAL B/B	D/C	243	0	5.9	0.0	5.9	
35		APL -MHG	D/C	0	1548	0.0	35.5	-35.5	
36		GWALIOR-AGRA	D/C	0	1240	0.0	42.2	-42.2	
37	765 kV	PHAGI-GWALIOR	D/C	0	1479	0.0	28.1	-28.1	
38		JABALPUR-ORAI	D/C	0	653	0.0	19.9	-19.9	
39		GWALIOR-ORAI	S/C	390	0	8.3	0.0	8.3	
40		SATNA-ORAI	S/C	0	1845	0.0	40.4	-40.4	
41		400 kV	ZERDA-KANKROLI	S/C	419	0	5.3	0.0	5.3
42			ZERDA -BHINMAL	S/C	262	27	2.5	0.0	2.5
43	V'CHAL -RIHAND		S/C	986	0	21.5	0.0	21.5	
44	RAPP-SHUJALPUR		D/C	15	346	0	2	-2	
45	220 kV	BADOD-KOTA	S/C	68	17	0.3	0.3	0.1	
46		BADOD-MORAK	S/C	38	75	0.1	0.6	-0.5	
47		MEHGAON-AURAIYA	S/C	72	10	0.8	0.0	0.8	
48	132kV	MALANPUR-AURAIYA	S/C	41	30	0.3	0.1	0.2	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>45.0</b>	<b>192.5</b>	<b>-147.5</b>
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	989	0.0	10.7	-10.7	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1690	0	18.6	0.0	18.6	
53		WARDHA-NIZAMABAD	D/C	0	1117	0.0	13.1	-13.1	
54	400 kV	KOLHAPUR-KUDGI	D/C	1204	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	107	1.7	0.0	1.7	
						<b>WR-SR</b>	<b>42.6</b>	<b>23.8</b>	<b>18.8</b>
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>30.1</b>	
59		NEPAL						<b>-3.4</b>	
60		BANGLADESH						<b>-21.9</b>	