



**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: 21<sup>st</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 20.09.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20<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

21-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	54580	51513	43070	19436	2697	171296
Peak Shortage (MW)	512	0	0	0	144	656
Energy Met (MU)	1248	1238	938	412	52	3888
Hydro Gen (MU)	242	39	110	111	24	526
Wind Gen (MU)	16	47	110	-----	-----	173
Solar Gen (MU)*	20.43	20	46.17	0.81	0.00	87
Energy Shortage (MU)	11.5	0.0	0.0	0.0	1.0	12.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56326 19:24	54723 14:18	42899 18:50	20290 01:04	2745 19:50	171111 19:24

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	0.033	0.24	0.36	4.87	5.47	86.98	7.55

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	9293	0	215.4	89.0	-0.8	120	0.0	
	Haryana	8940	0	189.3	130.9	1.2	228	0.8	
	Rajasthan	10534	0	233.7	59.6	2.0	415	0.0	
	Delhi	5143	0	108.9	82.5	0.6	221	0.0	
	UP	17693	290	382.6	174.8	-0.5	236	0.0	
	Uttarakhand	1945	0	42.6	20.4	1.7	237	0.0	
	HP	1418	0	28.5	6.6	1.3	158	0.9	
	J&K	2049	512	40.9	29.7	-2.1	219	9.7	
	Chandigarh	611	0	5.5	5.2	0.4	407	0.0	
	WR	Chhattisgarh	4121	0	96.4	36.4	-1.6	154	0.0
Gujarat		18153	0	399.3	114.6	4.0	394	0.0	
MP		9602	0	212.3	92.3	1.9	378	0.0	
Maharashtra		22317	0	482.1	146.3	-0.4	732	0.0	
Goa		460	0	12.7	9.7	-0.1	70	0.0	
DD		326	0	7.3	5.9	1.4	103	0.0	
DNH		800	0	18.6	17.5	1.1	103	0.0	
Essar steel		473	0	9.8	9.7	0.1	293	0.0	
SR		Andhra Pradesh	7192	0	163.5	28.6	2.1	498	0.0
		Telangana	9464	0	201.0	93.8	1.8	496	0.0
	Karnataka	9561	0	201.9	26.3	1.9	493	0.0	
	Kerala	3392	0	69.2	43.5	1.0	252	0.0	
	Tamil Nadu	13915	0	295.2	108.3	-1.4	494	0.0	
	Pondy	363	0	7.3	7.3	0.0	62	0.0	
ER	Bihar	4860	0	84.5	87.7	-3.6	500	0.0	
	DVC	2826	0	61.3	-13.2	1.7	400	0.0	
	Jharkhand	1174	0	23.8	17.8	-0.6	75	0.0	
	Odisha	4278	0	89.5	20.2	0.5	100	0.0	
	West Bengal	8091	0	152.5	64.8	-0.8	200	0.0	
	Sikkim	76	0	0.6	1.3	-0.7	10	0.0	
NER	Arunachal Pradesh	129	2	2.4	2.5	-0.1	42	0.0	
	Assam	1780	82	33.7	27.3	1.6	206	0.8	
	Manipur	183	8	2.4	2.4	0.0	54	0.0	
	Meghalaya	280	0	5.0	0.1	0.5	88	0.0	
	Mizoram	78	0	1.5	1.0	0.2	16	0.0	
	Nagaland	123	2	2.2	1.7	0.1	37	0.0	
	Tripura	240	4	4.4	4.2	0.2	150	0.2	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	30.5	-5.6	-21.5
Day peak (MW)	1264.2	-376.4	625.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.3	-186.4	-18.0	-35.6	3.6	3.9
Actual(MU)	235.9	-181.9	-20.9	-38.6	4.7	-0.8
O/D/U/D(MU)	-4.4	4.5	-2.9	-3.0	1.1	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2739	15837	7492	1620	404	28092
State Sector	6010	12558	6600	6515	50	31733
Total	8749	28395	14092	8135	454	59825

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	684	1260	606	372	4	2927
Hydro	242	41	110	111	24	528
Nuclear	23	27	28	0	0	78
Gas, Naptha & Diesel	36	50	23	0	22	132
RES (Wind, Solar, Biomass & Others)	57	60	199	1	0	317
Total	1043	1438	967	484	50	3981

Share of RES in total generation (%)	5.47	4.16	20.61	0.17	0.04	7.96
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.88	8.85	34.88	23.13	48.16	23.17

H. Diversity Factor

All India Demand Diversity Factor	1.034
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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 : 21-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	115	339	0.0	2.4	-2.4	
2		SASARAM-FATEHPUR	S/C	474	0	7.3	0.0	7.3	
3		GAYA-BALIA	S/C	0	343	0.0	6.0	-6.0	
4		ALIPURDUAR-AGRA	-	0	1502	0.0	37.1	-37.1	
5	400 kV	PUSAULI B/B	S/C	0	399	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	309	0.0	6.7	-6.7	
7		PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.0	-3.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	50	522	0.0	6.3	-6.3	
9		PATNA-BALIA	Q/C	0	723	0.0	10.3	-10.3	
10		BIHARSHARIFF-BALIA	D/C	97	140	0.0	1.3	-1.3	
11		MOTIHARI-GORAKHPUR	D/C	265	0	4.4	0.0	4.4	
12		BIHARSHARIFF-VARANASI	D/C	333	0	4.0	0.0	4.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	184	0.0	3.1	-3.1
14			SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	35	0	0.6	0.0	0.6
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>16.3</b>	<b>85.8</b>	<b>-69.5</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	667	144	3.9	0.0	3.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1317	0	20.1	0.0	20.1	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	724	0	10.2	0.0	10.2	
21		RANCHI-SIPAT	D/C	651	0	10.4	0.0	10.4	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	157	0	2.1	0.0	2.1	
<b>ER-WR</b>						<b>46.6</b>	<b>0.0</b>	<b>46.6</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1488.0	0.0	18.2	-18.2	
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	889.0	0.0	13.2	-13.2	
27	400 kV	TALCHER-I/C	D/C	97.0	77.0	24.7	0.0	24.7	
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>42.6</b>	<b>-42.6</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	823	0.0	15.8	-16	
30		ALIPURDUAR-BONGAIGAON	D/C	141	186	0.0	0.9	-1	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	147	0.0	2.6	-3	
<b>ER-NER</b>						<b>0.0</b>	<b>19.3</b>	<b>-19.3</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	700	0.0	16.8	-16.8	
<b>NER-NR</b>						<b>0.0</b>	<b>16.8</b>	<b>-16.8</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	26.5	-26.5	
34		V'CHAL B/B	D/C	241	2	5.1	0.0	5.1	
35		APL -MHG	D/C	0	1548	0.0	38.2	-38.2	
36		GWALIOR-AGRA	D/C	0	1314	0.0	47.9	-47.9	
37	765 kV	PHAGI-GWALIOR	D/C	0	1472	0.0	27.0	-27.0	
38		JABALPUR-ORAI	D/C	0	685	0.0	22.9	-22.9	
39		GWALIOR-ORAI	S/C	464	0	9.9	0.0	9.9	
40		SATNA-ORAI	S/C	0	1851	0.0	41.4	-41.4	
41		400 kV	ZERDA-KANKROLI	S/C	342	0	4.7	0.0	4.7
42			ZERDA -BHINMAL	S/C	217	13	2.1	0.0	2.1
43	V'CHAL -RIHAND		S/C	963	0	22.3	0.0	22.3	
44	RAPP-SHUJALPUR		D/C	69	289	0	2	-2	
45	220 kV	BADOD-KOTA	S/C	43	29	0.5	0.2	0.3	
46		BADOD-MORAK	S/C	54	63	0.2	0.5	-0.3	
47		MEHGAON-AURAIYA	S/C	67	0	0.9	0.0	0.9	
48	132kV	MALANPUR-AURAIYA	S/C	34	24	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>45.8</b>	<b>206.4</b>	<b>-160.6</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	305	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	1956	600	20.6	0.0	20.6	
53		WARDHA-NIZAMABAD	D/C	267	1578	0.0	12.6	-12.6	
54	400 kV	KOLHAPUR-KUDGI	D/C	1332	0	22.3	0.0	22.3	
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	108	2.1	0.0	2.1	
<b>WR-SR</b>						<b>45.0</b>	<b>19.7</b>	<b>25.3</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>30.5</b>	
59		NEPAL						<b>-5.6</b>	
60		BANGLADESH						<b>-21.5</b>	