



**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: 23<sup>rd</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 22.09.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22<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

23-Sep-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs: from RLDCs)	43205	47648	41806	20793	2716	156168
Peak Shortage (MW)	524	0	245	262	98	1129
Energy Met (MU)	982	1132	927	413	50	3504
Hydro Gen (MU)	252	36	109	114	24	534
Wind Gen (MU)	23	92	87	-----	-----	202
Solar Gen (MU)*	14.06	11.64	63.11	0.85	0.02	90
Energy Shortage (MU)	10.1	0.1	0.8	-0.8	1.4	11.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49332 00:00	49308 19:00	41878 18:42	21095 19:43	2709 19:04	158013 19:11

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	0.14	0.94	4.25	5.32	85.29	9.39

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	8988	0	167.4	88.6	-1.7	106	0.0
	Haryana	7118	0	121.7	101.5	0.5	393	0.0
	Rajasthan	9680	0	204.2	50.3	0.2	467	0.0
	Delhi	4253	0	91.8	70.3	-1.3	123	0.2
	UP	14775	0	289.7	133.3	-0.6	271	0.0
	Uttarakhand	1939	0	36.4	18.3	-2.7	150	0.0
	HP	1337	0	27.4	6.9	-2.4	29	0.0
	J&K	2143	536	39.4	30.6	-6.5	211	9.9
WR	Chhattisgarh	3674	0	77.4	19.1	-3.3	175	0.0
	Gujarat	17989	0	393.3	111.6	4.9	758	0.0
	MP	7923	0	164.4	63.0	-1.9	429	0.0
	Maharashtra	20433	14	447.0	134.9	1.8	684	0.1
	Goa	460	0	12.5	9.2	0.4	37	0.0
	DD	324	0	7.6	6.6	1.0	94	0.0
	DNH	797	0	18.6	17.3	1.3	122	0.0
	Essar steel	579	0	11.1	11.4	-0.2	292	0.0
SR	Andhra Pradesh	7055	0	158.6	25.8	3.5	864	0.0
	Telangana	8719	0	180.0	74.1	3.1	665	0.0
	Karnataka	9402	0	199.1	34.5	0.2	358	0.0
	Kerala	3430	-75	69.6	42.7	1.3	289	0.7
	Tamil Nadu	14065	0	312.1	130.6	6.7	1239	0.0
	Pondy	338	-15	7.5	7.0	0.5	59	0.1
ER	Bihar	4633	0	81.3	81.0	-0.1	50	0.0
	DVC	2939	0	62.8	-19.1	4.1	300	-0.5
	Jharkhand	1047	0	21.2	16.0	-0.3	40	0.0
	Odisha	4924	0	100.9	31.3	4.8	180	-0.3
	West Bengal	7984	0	145.9	49.5	1.4	150	0.0
NER	Sikkim	97	0	1.2	1.3	-0.1	31	0.0
	Arunachal Pradesh	122	6	2.2	2.6	-0.3	42	0.0
	Assam	1793	73	31.9	25.5	1.0	206	1.3
	Manipur	138	2	2.2	2.5	-0.3	54	0.0
	Meghalaya	274	0	5.0	0.4	0.3	88	0.0
	Mizoram	79	1	1.7	1.0	0.2	16	0.0
	Nagaland	118	2	2.1	1.8	0.0	37	0.0
	Tripura	280	2	4.4	4.2	0.2	150	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	30.5	-3.7	-21.8
Day peak (MW)	1313.4	-186.0	-962.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.5	-172.8	17.0	-39.3	2.0	0.4
Actual(MU)	163.4	-170.4	29.6	-29.6	2.4	-4.6
O/D/U/D(MU)	-30.1	2.4	12.5	9.7	0.4	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3309	16887	6742	1620	418	28977
State Sector	12525	14616	6790	6305	50	40286
Total	15834	31503	13532	7925	468	69262

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	483	1113	562	349	4	2512
Hydro	252	36	109	114	24	534
Nuclear	23	27	19	0	0	70
Gas, Naptha & Diesel	26	48	25	0	22	120
RES (Wind, Solar, Biomass & Others)	57	104	192	1	0	354
Total	841	1328	907	464	50	3590

Share of RES in total generation (%)	6.74	7.85	21.19	0.18	0.08	9.86
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	39.46	12.60	35.38	24.71	46.90	26.69

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 : 23-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	297	187	0.0	1.5	-1.5	
2		SASARAM-FATEHPUR	S/C	513	0	6.9	0.0	6.9	
3		GAYA-BALIA	S/C	0	266	0.0	4.1	-4.1	
4		ALIPURDUAR-AGRA	-	0	1200	0.0	29.0	-29.0	
5	400 kV	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	329	0.0	6.7	-6.7	
7		PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.8	-2.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	247	390	0.0	4.1	-4.1	
9		PATNA-BALIA	Q/C	0	548	0.0	8.8	-8.8	
10		BIHARSHARIFF-BALIA	D/C	146	94	0.0	0.5	-0.5	
11		MOTIHARI-GORAKHPUR	D/C	321	0	4.2	0.0	4.2	
12		BIHARSHARIFF-VARANASI	D/C	395	0	3.2	0.0	3.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	188	0.0	3.6	-3.6	
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	35	0	0.5	0.0	0.5	
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>14.8</b>	<b>70.8</b>	<b>-56.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1472	0	19.9	0.0	19.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1016	0	15.2	0.0	15.2	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1203	0	19.9	0.0	19.9	
21		RANCHI-SIPAT	D/C	539	0	8.5	0.0	8.5	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	293	0	4.8	0.0	4.8	
<b>ER-WR</b>						<b>68.2</b>	<b>0.0</b>	<b>68.2</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1281.0	0.0	18.1	-18.1	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	469.0	0.0	11.2	-11.2	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1593.0	0.0	33.4	-33.4	
27	400 kV	TALCHER-I/C	D/C	0.0	759.0	0.0	3.7	-3.7	
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>62.6</b>	<b>-62.6</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	769	0.0	13.4	-13	
30		ALIPURDUAR-BONGAIGAON	D/C	93	256	0.0	2.5	-3	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	148	0.0	2.5	-3	
<b>ER-NER</b>						<b>0.0</b>	<b>18.4</b>	<b>-18.4</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	701	0.0	17.0	-17.0	
<b>NER-NR</b>						<b>0.0</b>	<b>17.0</b>	<b>-17.0</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	13.8	-13.8	
34		V'CHAL B/B	D/C	243	2	5.3	0.0	5.3	
35		APL -MHG	D/C	0	1169	0.0	18.5	-18.5	
36		GWALIOR-AGRA	D/C	0	1145	0.0	34.1	-34.1	
37	765 kV	PHAGI-GWALIOR	D/C	0	1382	0.0	22.3	-22.3	
38		JABALPUR-ORAI	D/C	0	575	0.0	14.4	-14.4	
39		GWALIOR-ORAI	S/C	534	0	9.8	0.0	9.8	
40		SATNA-ORAI	S/C	0	1861	0.0	37.2	-37.2	
41		400 kV	ZERDA-KANKROLI	S/C	410	0	5.2	0.0	5.2
42			ZERDA -BHINMAL	S/C	325	36	2.7	0.0	2.7
43	V'CHAL -RIHAND		S/C	958	0	16.8	0.0	16.8	
44	RAPP-SHUJALPUR		D/C	185	302	0	1	-1	
45	220 kV	BADOD-KOTA	S/C	72	17	0.4	0.1	0.3	
46		BADOD-MORAK	S/C	36	45	0.1	0.4	-0.3	
47		MEHGAON-AURAIYA	S/C	58	8	0.3	0.0	0.3	
48	132kV	MALANPUR-AURAIYA	S/C	34	28	0.1	0.3	-0.2	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>40.7</b>	<b>142.1</b>	<b>-101.3</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	989	0.0	14.6	-14.6	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1231	454	9.2	0.0	9.2	
53		WARDHA-NIZAMABAD	D/C	0	1297	0.0	12.8	-12.8	
54	400 kV	KOLHAPUR-KUDGI	D/C	1084	0	20.2	0.0	20.2	
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	91	1.9	0.0	1.9	
<b>WR-SR</b>						<b>31.3</b>	<b>27.4</b>	<b>3.9</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>30.5</b>	
59		NEPAL						<b>-3.7</b>	
60		BANGLADESH						<b>-21.8</b>	