



**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> Oct 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, लापालंग, 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 20.10.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अक्टूबर-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> October 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-Oct-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	43573	53016	40830	19798	2431	159648
Peak Shortage (MW)	1544	170	20	200	25	1959
Energy Met (MU)	957	1273	899	399	40	3568
Hydro Gen (MU)	168	33	87	81	16	385
Wind Gen (MU)	10	19	31	-----	-----	60
Solar Gen (MU)*	20.56	20.17	69.53	0.91	0.02	111
Energy Shortage (MU)	9.5	2.8	0.1	-0.6	0.2	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45225 18:49	57197 10:59	40952 18:32	19940 19:02	2431 18:05	161827 18:49

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	0.065	0.12	2.31	16.71	19.14	76.60	4.26

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	5905	0	127.9	31.8	-0.6	80	0.0	
	Haryana	6355	0	134.1	95.4	1.2	204	0.0	
	Rajasthan	10515	0	215.9	37.6	1.2	538	0.0	
	Delhi	3651	0	71.4	56.5	-0.7	124	0.0	
	UP	14427	20	304.9	111.6	0.8	289	0.0	
	Uttarakhand	1750	0	34.0	12.6	-0.2	161	0.0	
	HP	1343	0	25.3	12.4	0.0	145	0.0	
	J&K	1841	460	40.1	36.8	-7.0	-165	9.5	
	Chandigarh	180	0	3.2	3.0	0.2	29	0.0	
	WR	Chhattisgarh	4215	0	97.8	25.3	-2.0	175	0.0
Gujarat		16905	0	374.7	140.2	8.7	925	0.0	
MP		11430	0	251.5	138.9	-0.6	408	0.0	
Maharashtra		23811	4	506.3	193.6	-1.1	688	2.8	
Goa		470	0	10.6	10.4	-0.3	31	0.0	
DD		336	0	6.9	6.2	0.7	70	0.0	
DNH		663	0	17.0	16.1	0.9	79	0.0	
Essar steel		443	0	8.4	7.8	0.6	291	0.0	
SR		Andhra Pradesh	7959	0	175.1	59.0	0.4	481	0.0
		Telangana	10300	0	219.1	99.8	2.1	613	0.0
	Karnataka	7893	0	157.8	35.2	-1.9	310	0.0	
	Kerala	3362	0	67.2	40.9	0.6	187	0.0	
	Tamil Nadu	13229	0	273.1	129.9	1.8	455	0.0	
	Pondy	313	20	6.7	6.8	-0.1	38	0.1	
ER	Bihar	4158	0	77.5	76.0	-0.8	100	0.0	
	DVC	2829	0	61.3	-19.8	2.4	340	0.0	
	Jharkhand	1000	0	22.8	13.8	-1.2	20	0.0	
	Odisha	5003	-200	107.1	43.2	1.0	250	-0.6	
	West Bengal	7326	0	128.9	14.9	3.7	380	0.0	
	Sikkim	71	0	0.9	1.2	-0.3	10	0.0	
NER	Arunachal Pradesh	123	2	2.0	1.9	0.1	146	0.0	
	Assam	1466	23	22.3	16.0	1.5	195	0.1	
	Manipur	165	3	2.6	2.3	0.3	48	0.0	
	Meghalaya	294	0	5.2	2.8	-0.1	42	0.0	
	Mizoram	93	2	1.8	1.0	0.4	11	0.0	
	Nagaland	122	2	2.3	1.7	0.2	11	0.0	
	Tripura	255	3	3.9	2.5	0.0	43	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.5	-1.3	-19.2
Day peak (MW)	623.7	-100.0	-912.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	132.5	-129.0	87.1	-79.8	-8.7	2.1
Actual(MU)	120.1	-131.5	88.6	-72.1	-7.2	-1.9
O/D/U/D(MU)	-12.4	-2.4	1.5	7.8	1.5	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5604	10457	8282	1220	56	25619
State Sector	7740	12993	7840	6080	50	34703
Total	13344	23450	16122	7300	106	60321

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	598	1270	540	405	7	2820
Hydro	168	33	87	81	16	385
Nuclear	24	27	23	0	0	74
Gas, Naptha & Diesel	28	48	24	0	28	128
RES (Wind, Solar, Biomass & Others)	47	40	143	1	0	231
Total	865	1418	816	486	52	3637

Share of RES in total generation (%)	5.44	2.84	17.48	0.20	0.04	6.35
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.56	7.10	31.00	16.81	30.94	18.97

H. Diversity Factor

All India Demand Diversity Factor	1.024
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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-Oct-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	191	375	0.0	3.2	-3.2	
2		SASARAM-FATEHPUR	S/C	283	20	2.7	0.0	2.7	
3		GAYA-BALIA	S/C	0	192	0.0	3.1	-3.1	
4		ALIPURDUAR-AGRA	-	0	501	0.0	11.7	-11.7	
5	400 kV	PUSAULI B/B	S/C	0	399	0.0	9.7	-9.7	
6		PUSAULI-VARANASI	S/C	0	307	0.0	6.1	-6.1	
7		PUSAULI -ALLAHABAD	S/C	0	187	0.0	3.4	-3.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	91	485	0.0	5.2	-5.2	
9		PATNA-BALIA	Q/C	0	794	0.0	14.9	-14.9	
10		BIHARSHARIFF-BALIA	D/C	30	201	0.0	2.6	-2.6	
11		MOTIHARI-GORAKHPUR	D/C	0	367	0.0	6.8	-6.8	
12		BIHARSHARIFF-VARANASI	D/C	239	133	0.8	0.0	0.8	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	162	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	0	0	0.6	0.0	0.6
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>4.1</b>	<b>69.9</b>	<b>-65.7</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1324	0	21.0	0.0	21.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	337	228	2.2	0.0	2.2	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	857	0	14.3	0.0	14.3	
21		RANCHI-SIPAT	D/C	265	0	3.8	0.0	3.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0	
23		BUDHIPADAR-KORBA	D/C	281	0	5.1	0.0	5.1	
<b>ER-WR</b>						<b>46.5</b>	<b>0.0</b>	<b>46.5</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1326.0	0.0	23.7	-23.7	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	612.0	0.0	14.6	-14.6	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1360.0	0.0	43.1	-43.1	
27	400 kV	TALCHER-I/C	D/C	0.0	976.0	0.0	14.3	-14.3	
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>81.4</b>	<b>-81.4</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	485	0.0	6.4	-6	
30		ALIPURDUAR-BONGAIGAON	D/C	75	261	0.0	1.4	-1	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	109	0.0	1.3	-1	
<b>ER-NER</b>						<b>0.0</b>	<b>9.0</b>	<b>-9.0</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	703	0.0	16.9	-16.9	
<b>NER-NR</b>						<b>0.0</b>	<b>16.9</b>	<b>-16.9</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	450	0.0	10.8	-10.8	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	595	0.0	14.6	-14.6	
36		GWALIOR-AGRA	D/C	0	552	0.0	19.6	-19.6	
37	765 kV	PHAGI-GWALIOR	D/C	0	1074	0.0	16.4	-16.4	
38		JABALPUR-ORAI	D/C	191	183	0.0	1.5	-1.5	
39		GWALIOR-ORAI	S/C	479	0	8.6	0.0	8.6	
40		SATNA-ORAI	S/C	0	1510	0.0	32.8	-32.8	
41		400 kV	ZERDA-KANKROLI	S/C	408	0	7.0	0.0	7.0
42			ZERDA -BHINMAL	S/C	370	0	5.0	0.0	5.0
43	V'CHAL -RIHAND		S/C	489	0	11.2	0.0	11.2	
44	RAPP-SHUJALPUR		D/C	197	0	3	0	3	
45	220 kV	BADOD-KOTA	S/C	88	45	2.3	0.0	2.3	
46		BADOD-MORAK	S/C	100	65	1.3	0.1	1.2	
47		MEHGAON-AURAIYA	S/C	109	0	2.0	0.0	2.0	
48	132kV	MALANPUR-AURAIYA	S/C	74	0	1.7	0.0	1.7	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>48.6</b>	<b>95.8</b>	<b>-47.2</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	1002	0.0	21.0	-21.0	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	1141	1175	0.0	6.1	-6.1	
53		WARDHA-NIZAMABAD	D/C	0	2033	0.0	31.7	-31.7	
54	400 kV	KOLHAPUR-KUDGI	D/C	1229	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	62	1.2	0.0	1.2	
<b>WR-SR</b>						<b>21.5</b>	<b>58.8</b>	<b>-37.3</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>10.5</b>	
59		NEPAL						<b>-1.3</b>	
60		BANGLADESH						<b>-19.2</b>	