



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: 01<sup>st</sup> Oct 2019

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, 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 01.10.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 30<sup>th</sup> Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

1-Oct-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	45496	42852	37630	18165	2392	146535
Peak Shortage (MW)	1713	0	0	0	179	1892
Energy Met (MU)	929	944	860	354	44	3131
Hydro Gen (MU)	276	103	168	132	24	703
Wind Gen (MU)	4	58	14	-----	-----	76
Solar Gen (MU)*	28.02	14.35	78.89	1.79	0.03	123
Energy Shortage (MU)	14.4	0.0	0.0	0.0	5.1	19.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46121 19:19	43324 19:46	37982 10:17	18386 19:11	2552 17:55	146844 19:45

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	0.053	0.38	1.08	8.41	9.87	60.28	29.85

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	6285	0	132.5	100.0	-3.3	93	0.0	
	Haryana	7480	0	148.2	125.3	1.1	249	0.0	
	Rajasthan	8909	0	197.0	70.9	0.2	336	0.0	
	Delhi	4251	0	89.2	73.8	-1.9	109	0.0	
	UP	13870	1230	258.6	140.2	-0.2	1408	5.3	
	Uttarakhand	1693	0	35.9	15.7	-1.0	232	0.0	
	HP	1317	0	25.3	3.8	-0.1	158	0.0	
	J&K	2203	551	37.9	19.8	-0.9	454	9.1	
WR	Chandigarh	209	0	3.9	4.9	-1.1	0	0.0	
	Chhattisgarh	3594	0	77.2	27.9	0.7	246	0.0	
	Gujarat	11849	0	260.0	70.1	3.6	737	0.0	
	MP	8032	0	162.5	78.9	-0.4	382	0.0	
	Maharashtra	18358	0	400.9	159.9	0.0	475	0.0	
	Goa	541	0	12.1	10.8	0.7	70	0.0	
	DD	315	0	7.0	6.6	0.5	40	0.0	
	DNH	765	0	18.0	18.1	-0.1	43	0.0	
SR	Essar steel	295	0	5.8	5.6	0.2	293	0.0	
	Andhra Pradesh	7516	0	163.0	59.0	6.1	1127	0.0	
	Telangana	7593	0	167.5	42.7	-1.6	463	0.0	
	Karnataka	9050	0	173.6	44.7	2.2	692	0.0	
	Kerala	3282	0	67.9	42.9	1.5	197	0.0	
	Tamil Nadu	13234	0	280.4	139.2	0.8	618	0.0	
	Pondy	373	0	7.6	7.8	-0.2	43	0.0	
	Bihar	3645	0	56.4	55.8	0.3	1000	0.0	
ER	DVC	2854	0	59.4	-9.4	2.3	400	0.0	
	Jharkhand	1000	0	19.2	11.6	-1.4	70	0.0	
	Odisha	4012	0	86.6	13.1	4.9	450	0.0	
	West Bengal	7368	0	131.7	52.3	0.0	300	0.0	
	Sikkim	93	0	1.1	1.1	0.0	15	0.0	
	NER	Arunachal Pradesh	104	1	2.1	2.1	0.0	25	0.0
		Assam	1533	142	25.8	19.3	0.4	197	5.0
		Manipur	157	2	2.3	2.3	0.0	19	0.0
Meghalaya		326	0	6.0	1.2	-0.1	50	0.0	
Mizoram		99	1	1.7	0.8	0.5	13	0.0	
Nagaland		134	3	2.4	2.2	-0.1	12	0.0	
Tripura		250	4	4.2	4.4	-0.6	84	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	43.4	-3.0	-21.9
Day peak (MW)	1842.5	-200.7	-1069.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.6	-214.3	39.8	-58.4	-6.7	1.1
Actual(MU)	211.8	-222.2	84.2	-65.8	-8.5	-0.5
O/D/U/D(MU)	-28.7	-7.9	44.4	-7.4	-1.8	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4061	15330	8332	4665	382	32770
State Sector	14666	24689	9773	7630	11	56769
Total	18727	40018	18105	12295	393	89538

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	340	884	388	296	8	1915
Lignite	17	12	43	0	0	72
Hydro	276	103	168	132	24	703
Nuclear	23	29	60	0	0	112
Gas, Naptha & Diesel	34	58	16	0	27	135
RES (Wind, Solar, Biomass & Others)	45	81	126	2	0	254
Total	736	1167	800	429	59	3191

Share of RES in total generation (%)	6.12	6.98	15.70	0.42	0.05	7.96
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	46.74	18.30	44.21	31.16	40.72	33.50

H. Diversity Factor

All India Demand Diversity Factor	1.010
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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 : 1-Oct-19

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	98	275	0.0	1.5	-1.5	
2		SASARAM-FATEHPUR	S/C	154	130	0.0	0.1	-0.1	
3		GAYA-BALIA	S/C	0	260	0.0	3.7	-3.7	
4		ALIPURDUAR-AGRA	-	0	1202	0.0	29.4	-29.4	
5		PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	181	0.0	3.5	-3.5	
7		PUSAULI -ALLAHABAD	S/C	0	80	0.0	1.2	-1.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	734	0.0	13.2	-13.2	
9		PATNA-BALIA	Q/C	0	505	0.0	7.2	-7.2	
10		BIHARSHARIFF-BALIA	D/C	0	190	0.0	3.0	-3.0	
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	208	40	1.2	0.0	1.2	
13		PUSAULI-SAHUPURI	S/C	0	113	0.0	2.0	-2.0	
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3
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>1.5</b>	<b>69.5</b>	<b>-68.0</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1601	0	28.5	0.0	28.5	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1105	0	14.4	0.0	14.4	
20		JHARSUGUDA-DURG	D/C	228	0	3.4	0.0	3.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	231	149	1.7	0.0	1.7	
22		RANCHI-SIPAT	D/C	365	0	3.4	0.0	3.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	69	0.0	0.9	-0.9	
24		BUDHIPADAR-KORBA	D/C	135	0	2.2	0.0	2.2	
<b>ER-WR</b>						<b>53.7</b>	<b>0.9</b>	<b>52.8</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2162.0	0.0	38.7	-38.7	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	528.0	0.0	10.8	0.0	10.8	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1020.0	0.0	20.9	-20.9	
28	400 kV	TALCHER-I/C	D/C	495.0	274.0	0.1	0.0	0.1	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>10.8</b>	<b>59.5</b>	<b>-48.7</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	506	0.0	6.4	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	179	189	1.0	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	107	0.0	1.2	-1	
<b>ER-NER</b>						<b>1.0</b>	<b>7.6</b>	<b>-6.6</b>	
<b>Import/Export of NER (With NR)</b>									
33	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>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1002	0.0	10.1	-10.1	
35		V'CHAL B/B	D/C	453	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	692	0.0	16.8	-16.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2369	0.0	39.0	-39.0	
38		PHAGI-GWALIOR	D/C	0	1271	0.0	23.4	-23.4	
39		JABALPUR-ORAI	D/C	0	820	0.0	28.3	-28.3	
40		GWALIOR-ORAI	S/C	404	0	7.5	0.0	7.5	
41		SATNA-ORAI	S/C	0	1437	0.0	29.2	-29.2	
42		CHITTORGARH-BANASKANTHA	D/C	0	1032	0.0	13.9	-13.9	
43	400 kV	ZERDA-KANKROLI	S/C	0	180	0.0	1.6	-1.6	
44		ZERDA -BHINMAL	S/C	0	255	0.0	3.6	-3.6	
45		V'CHAL -RIHAND	S/C	977	0	22.1	0.0	22.1	
46		RAPP-SHUJALPUR	D/C	0	399	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	18	57	0.0	0.6	-0.6	
48		BHANPURA-MORAK	S/C	0	96	0.0	1.3	-1.3	
49		MEHGAON-AURAIYA	S/C	94	0	1.1	0.0	1.1	
50		MALANPUR-AURAIYA	S/C	55	23	0.4	0.1	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>43.1</b>	<b>170.5</b>	<b>-127.4</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	606	0.0	6.0	-6.0	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	869	1381	2.6	15.0	-12.4	
55		WARDHA-NIZAMABAD	D/C	0	1885	0.0	31.6	-31.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	900	0	12.3	0.0	12.3	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	1	71	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	1	41	0.8	0.0	0.8	
<b>WR-SR</b>						<b>15.7</b>	<b>53.9</b>	<b>-38.2</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>43.4</b>	
61		NEPAL						<b>-3.0</b>	
62		BANGLADESH						<b>-21.9</b>	