



**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> Sep 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. मुख्य महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, 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 20.09.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-सितंबर-2019 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> Sep 2019, 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-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)	56477	45505	39016	22635	2917	166550
Peak Shortage (MW)	2268	0	0	101	153	2522
Energy Met (MU)	1276	1020	860	485	55	3695
Hydro Gen (MU)	296	115	155	140	20	727
Wind Gen (MU)	10	32	81	-----	-----	123
Solar Gen (MU)*	27.52	18.1	62.24	2.12	0.04	110
Energy Shortage (MU)	12.4	0.0	0.0	0.3	0.9	13.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	57452 20:18	46407 19:12	39140 19:30	22683 21:06	3065 18:26	167262 19:12

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	0.037	0.00	0.81	8.46	9.27	82.36	8.37

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	10168	0	225.2	127.4	-1.3	21	0.0
	Haryana	9443	0	200.8	146.8	-0.1	195	0.0
	Rajasthan	10630	0	242.4	76.5	-0.2	255	0.0
	Delhi	5365	0	113.4	96.1	-0.5	125	0.0
	UP	18375	900	375.3	164.8	-0.3	296	2.9
	Uttarakhand	1947	0	40.8	15.0	0.8	114	0.0
	HP	1498	0	29.8	5.6	0.0	211	0.0
	J&K	1927	482	42.7	20.2	-0.5	197	9.4
WR	Chandigarh	262	0	5.2	6.1	-0.9	34	0.0
	Chhattisgarh	4366	0	100.0	44.4	1.0	545	0.0
	Gujarat	14490	0	321.0	83.5	4.3	397	0.0
	MP	8047	0	173.2	75.9	-4.3	352	0.0
	Maharashtra	17897	0	383.2	145.1	-1.0	611	0.0
	Goa	541	0	11.5	10.9	0.0	34	0.0
	DD	333	0	7.4	7.0	0.4	45	0.0
	DNH	777	0	18.1	18.2	-0.1	52	0.0
SR	Essar steel	327	0	6.0	6.0	0.0	290	0.0
	Andhra Pradesh	7314	0	152.4	41.3	-2.1	524	0.0
	Telangana	7807	0	165.1	31.9	-1.7	578	0.0
	Karnataka	9106	0	177.6	43.6	-2.1	509	0.0
	Kerala	3439	0	70.0	47.1	1.5	181	0.0
	Tamil Nadu	13857	0	287.2	123.2	-0.4	611	0.0
	Pondy	355	0	7.4	7.6	-0.3	39	0.0
	ER	Bihar	5540	0	104.5	100.3	2.2	500
DVC		2971	0	64.4	-20.8	0.0	400	0.0
Jharkhand		1255	0	26.6	16.7	1.0	100	0.3
Odisha		4740	0	105.0	25.9	8.2	473	0.0
West Bengal		8913	0	183.4	68.5	0.7	500	0.0
Sikkim		88	0	1.0	1.2	-0.3	20	0.0
NER	Arunachal Pradesh	125	2	2.2	2.2	0.0	26	0.0
	Assam	1890	86	35.5	31.3	1.1	209	0.8
	Manipur	161	3	2.5	2.3	0.2	20	0.0
	Meghalaya	368	0	5.7	1.9	0.0	51	0.0
	Mizoram	92	1	1.8	0.8	0.7	31	0.0
	Nagaland	129	2	2.2	2.4	-0.4	63	0.0
	Tripura	340	10	5.0	7.0	-0.2	54	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	42.3	-5.9	-25.6
Day peak (MW)	1840.1	-344.0	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.8	-228.1	15.6	-68.0	-1.8	6.6
Actual(MU)	295.9	-231.8	-3.6	-60.2	1.7	1.9
O/D/U/D(MU)	7.1	-3.8	-19.2	7.7	3.5	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3495	15185	8222	2050	56	29007
State Sector	8910	19073	8710	5250	47	41989
Total	12405	34257	16932	7300	103	70996

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	573	990	419	424	12	2418
Lignite	22	12	43	0	0	76
Hydro	296	115	155	140	20	727
Nuclear	27	16	60	0	0	104
Gas, Naptha & Diesel	40	75	16	0	28	158
RES (Wind, Solar, Biomass & Others)	50	55	176	2	0	284
Total	1008	1263	869	567	59	3767

Share of RES in total generation (%)	5.00	4.35	20.27	0.38	0.07	7.53
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.04	14.80	45.06	25.16	33.49	29.59

H. Diversity Factor

All India Demand Diversity Factor	1.009
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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-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	420	0.0	6.9	-6.9	
2		SASARAM-FATEHPUR	S/C	117	173	0.0	0.5	-0.5	
3		GAYA-BALIA	S/C	0	330	0.0	5.8	-5.8	
4	HVDC	ALIPURDUAR-AGRA	-	0	1200	0.0	27.3	-27.3	
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	172	0.0	3.3	-3.3	
7		PUSAULI -ALLAHABAD	S/C	0	96	0.0	1.4	-1.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	861	0.0	11.9	-11.9	
9		PATNA-BALIA	Q/C	0	880	0.0	18.2	-18.2	
10		BIHARSHARIFF-BALIA	D/C	0	230	0.0	3.3	-3.3	
11		MOTIHARI-GORAKHPUR	D/C	0	10	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	122	174	0.0	0.4	-0.4	
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	30	0	0.5	0.0	0.5	
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>0.5</b>	<b>87.1</b>	<b>-86.6</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1193	0	19.8	0.0	19.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	800	0	11.5	0.0	11.5	
20		JHARSUGUDA-DURG	D/C	210	0	3.4	0.0	3.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	298	9	3.6	0.0	3.6	
22		RANCHI-SIPAT	D/C	292	0	3.9	0.0	3.9	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	95	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	91	0	1.3	0.0	1.3	
						<b>ER-WR</b>	<b>43.5</b>	<b>1.7</b>	<b>41.8</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1169.0	0.0	18.9	-18.9	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	310.0	0.0	7.4	0.0	7.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	696.0	0.0	14.7	-14.7	
28	400 kV	TALCHER-I/C	D/C	631.0	0.0	7.7	0.0	7.7	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>7.4</b>	<b>33.6</b>	<b>-26.2</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	539	0.0	9.4	-9	
31		ALIPURDUAR-BONGAIGAON	D/C	0	411	0.0	3.6	-4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	144	0.0	2.2	-2	
						<b>ER-NER</b>	<b>0.0</b>	<b>15.2</b>	<b>-15.2</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	605	0.0	14.5	-14.5	
						<b>NER-NR</b>	<b>0.0</b>	<b>14.5</b>	<b>-14.5</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2009	0.0	39.7	-39.7	
35		V'CHAL B/B	D/C	453	0	12.4	0.0	12.4	
36		APL -MHG	D/C	0	1740	0.0	36.4	-36.4	
37	765 kV	GWALIOR-AGRA	D/C	0	2223	0.0	42.2	-42.2	
38		PHAGI-GWALIOR	D/C	0	1296	0.0	25.2	-25.2	
39		JABALPUR-ORAI	D/C	0	854	0.0	32.6	-32.6	
40		GWALIOR-ORAI	S/C	303	0	6.1	0.0	6.1	
41		SATNA-ORAI	S/C	0	1444	0.0	31.7	-31.7	
42		CHITTORGARH-BANASKANTHA	D/C	0	906	0.0	9.2	-9.2	
43		ZERDA-KANKROLI	S/C	46	126	0.1	1.1	-1.0	
44	400 kV	ZERDA -BHINMAL	S/C	0	233	0.0	3.4	-3.4	
45		V'CHAL -RIHAND	S/C	982	0	12.1	0.0	12.1	
46	220 kV	RAPP-SHUJALPUR	D/C	0	421	0	3	-3	
47		BHANPURA-RANPUR	S/C	0	91	0.0	1.3	-1.3	
48		BHANPURA-MORAK	S/C	0	145	0.0	2.2	-2.2	
49		MEHGAON-AURAIYA	S/C	79	0	0.9	0.0	0.9	
50	132kV	MALANPUR-AURAIYA	S/C	38	27	0.1	0.1	0.0	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>31.6</b>	<b>228.3</b>	<b>-196.7</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	192	0	4.8	0.0	4.8	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	998	1005	5.6	3.2	2.4	
55		WARDHA-NIZAMABAD	D/C	0	1352	0.0	17.7	-17.7	
56	400 kV	KOLHAPUR-KUDGI	D/C	953	0	17.5	0.0	17.5	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	2	66	0.0	0.5	-0.5	
59		XELDEM-AMBEWADI	S/C	1	38	0.3	0.0	0.3	
						<b>WR-SR</b>	<b>28.1</b>	<b>21.4</b>	<b>6.7</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>42.3</b>	
61		NEPAL						<b>-5.9</b>	
62		BANGLADESH						<b>-25.6</b>	