



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: 22<sup>nd</sup> Sep 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 21.09.2019.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 21<sup>st</sup> Sep 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

22-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)	54594	45517	38700	21696	2864	163371
Peak Shortage (MW)	2265	0	70	55	139	2529
Energy Met (MU)	1269	1022	867	460	55	3674
Hydro Gen (MU)	292	110	156	135	21	714
Wind Gen (MU)	7	24	54	-----	-----	86
Solar Gen (MU)*	29.98	18.45	76.31	2.07	0.01	127
Energy Shortage (MU)	10.3	0.0	0.6	0.2	1.0	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	56618 20:29	46542 19:10	39343 18:52	22102 20:52	2978 23:01	165684 19:16

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	0.042	0.42	1.42	5.01	6.85	78.81	14.34

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	10163	0	227.9	129.0	-0.6	80	0.0
	Haryana	9191	0	196.3	143.2	-1.0	177	0.0
	Rajasthan	10729	0	237.8	78.8	-2.5	170	0.0
	Delhi	5244	0	108.1	91.2	-0.8	197	0.0
	UP	18337	0	378.5	177.6	-1.7	572	0.0
	Uttarakhand	1963	0	41.0	14.7	0.4	157	0.0
	HP	1458	0	31.0	6.5	0.5	112	0.0
	J&K	2018	505	43.0	21.7	-1.7	326	10.3
WR	Chandigarh	245	0	5.2	5.8	-0.6	1	0.0
	Chhattisgarh	4360	0	101.4	46.3	3.1	560	0.0
	Gujarat	14085	0	314.9	93.2	3.6	610	0.0
	MP	7915	0	172.9	75.4	-3.1	405	0.0
	Maharashtra	18218	0	389.6	152.4	-0.9	602	0.0
	Goa	541	0	11.8	11.2	0.0	35	0.0
	DD	322	0	7.4	7.0	0.3	35	0.0
	DNH	792	0	18.4	18.5	-0.1	52	0.0
SR	Essar steel	5808	0	5.8	6.1	-0.3	257	0.0
	Andhra Pradesh	7311	0	159.3	42.6	0.2	725	0.1
	Telangana	7959	0	167.0	26.3	-1.5	578	0.1
	Karnataka	9289	0	180.1	45.9	-1.1	514	0.1
	Kerala	3472	-70	70.3	47.4	1.4	184	0.3
	Tamil Nadu	13250	0	282.9	130.9	1.1	649	0.1
	Pondy	364	0	7.5	7.7	-0.2	33	0.0
	Bihar	5242	0	98.8	99.3	-1.8	400	0.0
ER	DVC	2968	0	65.3	-20.8	0.0	200	0.0
	Jharkhand	1211	0	25.7	19.1	0.1	210	0.2
	Odisha	4542	0	93.3	19.1	7.5	473	0.0
	West Bengal	8606	0	176.2	70.1	-1.1	510	0.0
	Sikkim	93	0	1.1	1.4	-0.3	40	0.0
NER	Arunachal Pradesh	118	1	2.1	2.1	0.0	50	0.0
	Assam	1853	80	36.2	30.3	0.8	121	1.0
	Manipur	154	1	2.5	2.3	0.2	35	0.0
	Meghalaya	352	0	5.8	1.8	0.1	104	0.0
	Mizoram	85	2	1.6	0.7	0.8	27	0.0
	Nagaland	138	1	2.2	2.4	-0.4	68	0.0
	Tripura	295	2	5.1	5.2	-0.1	41	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	45.3	-4.3	-25.8
Day peak (MW)	1893.5	-314.0	-1125.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.6	-220.9	2.2	-73.5	0.8	4.1
Actual(MU)	294.8	-215.3	-2.0	-78.0	1.1	0.5
O/D/U/D(MU)	-0.8	5.6	-4.2	-4.5	0.4	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3495	16085	7722	1550	56	28907
State Sector	9240	19839	8710	4680	11	42480
Total	12735	35923	16432	6230	67	71387

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	569	991	433	430	12	2435
Lignite	22	12	45	0	0	79
Hydro	292	110	156	135	21	714
Nuclear	27	26	60	0	0	113
Gas, Naptha & Diesel	40	69	16	0	28	153
RES (Wind, Solar, Biomass & Others)	50	48	163	2	0	263
Total	1000	1255	874	568	60	3757

Share of RES in total generation (%)	4.98	3.85	18.63	0.37	0.02	7.00
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.95	14.63	43.39	24.21	34.52	29.03

H. Diversity Factor

All India Demand Diversity Factor	1.011
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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 : 22-Sep-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	0	472	0.0	7.7	-7.7	
2		SASARAM-FATEHPUR	S/C	110	154	0.0	0.4	-0.4	
3		GAYA-BALIA	S/C	0	366	0.0	6.5	-6.5	
4		ALIPURDUAR-AGRA	-	0	1201	0.0	28.7	-28.7	
5		PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	170	0.0	3.3	-3.3	
7		PUSAULI -ALLAHABAD	S/C	0	90	0.0	1.3	-1.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	890	0.0	14.1	-14.1	
9		PATNA-BALIA	Q/C	0	905	0.0	18.7	-18.7	
10		BIHARSHARIFF-BALIA	D/C	0	272	0.0	4.2	-4.2	
11		MOTIHARI-GORAKHPUR	D/C	0	11	0.0	0.0	0.0	
12	220 kV	BIHARSHARIFF-VARANASI	D/C	66	171	0.0	0.9	-0.9	
13		PUSAULI-SAHUPURI	S/C	0	180	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	0.4	0.0	0.4
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>0.4</b>	<b>93.5</b>	<b>-93.1</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMAJGARH	Q/C	935	0	13.7	0.0	13.7	
19		NEW RANCHI-DHARAMAJGARH	D/C	859	0	12.0	0.0	12.0	
20		JHARSUGUDA-DURG	D/C	201	6	2.5	0.0	2.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	177	216	0.6	0.0	0.6	
22		RANCHI-SIPAT	D/C	288	0	4.3	0.0	4.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	121	0.0	2.1	-2.1	
24		BUDHIPADAR-KORBA	D/C	63	38	0.6	0.0	0.6	
<b>ER-WR</b>						<b>33.8</b>	<b>2.1</b>	<b>31.7</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1472.0	0.0	20.5	-20.5	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	348.0	0.0	7.3	0.0	7.3	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	690.0	0.0	16.9	-16.9	
28	400 kV	TALCHER-I/C	D/C	387.0	0.0	6.9	0.0	6.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>7.3</b>	<b>37.3</b>	<b>-30.0</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	560	0.0	9.5	-9	
31		ALIPURDUAR-BONGAIGAON	D/C	108	276	0.0	2.7	-3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	132	0.0	2.0	-2	
<b>ER-NER</b>						<b>0.0</b>	<b>14.1</b>	<b>-14.1</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	14.6	-14.6	
<b>NER-NR</b>						<b>0.0</b>	<b>14.6</b>	<b>-14.6</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2010	0.0	34.8	-34.8	
35		V'CHAL B/B	D/C	231	0	6.1	0.0	6.1	
36		APL -MHG	D/C	0	1735	0.0	36.4	-36.4	
37	765 kV	GWALIOR-AGRA	D/C	0	2180	0.0	41.0	-41.0	
38		PHAGI-GWALIOR	D/C	0	1344	0.0	26.9	-26.9	
39		JABALPUR-ORAI	D/C	0	836	0.0	33.1	-33.1	
40		GWALIOR-ORAI	S/C	367	0	6.5	0.0	6.5	
41		SATNA-ORAI	S/C	0	1422	0.0	29.5	-29.5	
42		CHITTORGARH-BANASKANTHA	D/C	88	979	0.0	14.2	-14.2	
43	400 kV	ZERDA-KANKROLI	S/C	115	150	0.3	1.4	-1.1	
44		ZERDA -BHINMAL	S/C	77	273	0.0	4.1	-4.0	
45		V'CHAL -RIHAND	S/C	979	0	22.5	0.0	22.5	
46	220 kV	RAPP-SHUJALPUR	D/C	0	407	0	3	-3	
47		BHANPURA-RANPUR	S/C	13	89	0.0	1.0	-1.0	
48		BHANPURA-MORAK	S/C	0	117	0.0	1.9	-1.9	
49		MEHGAON-AURAIYA	S/C	77	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	43	32	0.2	0.1	0.1	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>36.5</b>	<b>227.5</b>	<b>-191.0</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	775	862	5.4	3.6	1.8	
55		WARDHA-NIZAMABAD	D/C	0	1434	0.0	15.2	-15.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	855	0	16.6	0.0	16.6	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	70	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	40	0.7	0.0	0.7	
<b>WR-SR</b>						<b>27.5</b>	<b>20.1</b>	<b>7.4</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>45.3</b>	
61		NEPAL						<b>-4.3</b>	
62		BANGLADESH						<b>-25.8</b>	