



**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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30<sup>th</sup> Sep 2020

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., डोंगतेिएह, 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 29.09.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-सितंबर-2020 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 29th September 2020, 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: 30-Sep-2020

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)	59263	47915	35366	22625	2911	168080
Peak Shortage (MW)	365	0	0	0	7	372
Energy Met (MU)	1289	1107	843	478	55	3772
Hydro Gen (MU)	224	99	139	142	25	628
Wind Gen (MU)	10	24	90	-	-	123
Solar Gen (MU)*	38.88	28.99	74.70	4.58	0.11	147
Energy Shortage (MU)	1.1	0.0	0.0	0.0	0.0	1.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59725	48974	39403	22836	3041	169289
Time Of Maximum Demand Met (From NLDC SCADA)	19:36	18:56	12:28	21:09	18:52	19:20

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	0.024	0.00	0.00	4.44	4.44	86.13	9.42

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	9433	0	216.8	131.1	-2.0	130	0.0
	Haryana	8520	0	187.3	141.8	1.0	216	0.0
	Rajasthan	11256	0	247.7	78.8	-1.5	327	0.0
	Delhi	4861	0	105.4	94.5	-0.6	240	0.0
	UP	20798	0	408.4	174.3	-1.0	460	1.1
	Uttarakhand	1889	0	39.8	22.4	0.2	132	0.0
	HP	1459	0	30.6	12.4	0.7	215	0.0
	J&K(UT) & Ladakh(UT)	2625	0	48.1	28.9	4.2	513	0.0
	Chandigarh	239	0	4.8	4.9	-0.1	22	0.0
	Chhattisgarh	3861	0	93.3	32.2	-1.2	224	0.0
WR	Gujarat	15136	0	340.0	81.9	0.6	411	0.0
	MP	9431	0	213.1	105.2	-2.3	428	0.0
	Maharashtra	18449	0	409.2	140.9	-1.1	571	0.0
	Goa	460	0	9.9	9.3	0.0	72	0.0
	DD	325	0	7.3	7.3	0.0	24	0.0
	DNH	786	0	18.2	18.3	-0.1	34	0.0
	AMNSIL	783	0	16.1	2.9	-0.1	233	0.0
SR	Andhra Pradesh	7954	0	164.1	79.3	-0.1	543	0.0
	Telangana	7943	0	159.2	44.7	-0.9	325	0.0
	Karnataka	8531	0	160.3	58.9	0.0	653	0.0
	Kerala	3288	0	69.1	38.2	-0.2	235	0.0
	Tamil Nadu	13198	0	283.3	142.8	-2.7	458	0.0
	Puducherry	349	0	7.3	7.7	-0.4	41	0.0
ER	Bihar	5761	0	109.6	106.1	-1.9	420	0.0
	DVC	3043	0	64.7	-47.9	-0.1	300	0.0
	Jharkhand	1487	0	30.0	21.7	-0.2	150	0.0
	Odisha	4686	0	97.2	13.4	-0.1	300	0.0
	West Bengal	8120	0	175.8	66.6	0.0	300	0.0
NER	Sikkim	84	0	1.2	1.4	-0.2	10	0.0
	Arunachal Pradesh	121	2	2.1	1.8	0.3	22	0.0
	Assam	1945	6	34.8	31.2	0.8	150	0.0
	Manipur	201	1	2.7	2.6	0.1	38	0.0
	Meghalaya	316	0	5.9	0.5	0.0	70	0.0
	Mizoram	98	2	1.7	1.0	0.4	23	0.0
	Nagaland	129	1	2.4	2.3	-0.2	18	0.0
	Trinura	294	2	5.1	6.9	0.2	72	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.3	-2.4	-26.2
Day Peak (MW)	2147.0	-303.9	-1099.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	369.9	-350.0	98.7	-118.2	-0.4	0.0
Actual(MU)	377.0	-348.8	92.9	-122.1	3.2	2.3
O/D/U/D(MU)	7.2	1.2	-5.8	-3.9	3.5	2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6445	14707	11712	1455	576	34894
State Sector	11399	17471	16087	6127	112	51196
Total	17844	32178	27799	7582	688	86091

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	573	1189	326	486	7	2582
Lignite	28	11	19	0	0	58
Hvdro	224	99	139	142	25	628
Nuclear	27	21	69	0	0	117
Gas, Naptha & Diesel	19	66	15	0	26	126
RES (Wind, Solar, Biomass & Others)	61	64	191	5	0	320
Total	933	1449	759	633	58	3831
Share of RES in total generation (%)	6.51	4.40	25.19	0.72	0.19	8.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.39	12.66	52.56	23.13	43.71	27.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.051

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 30-Sep-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	999	0.0	23.2	-23.2
2	HVDC	PUSAULI-B/B	-	0	299	0.0	7.2	-7.2
3	765 kV	GAYAVARANASI	2	0	625	0.0	9.7	-9.7
4	765 kV	SASARAM-FATEHPUR	1	241	167	0.5	0.0	0.5
5	765 kV	GAYA-BALIA	1	0	486	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	4.8	-4.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	148	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	682	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	4	0	930	0.0	17.4	-17.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	360	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	21	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	152	171	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	0	116	0.0	2.3	-2.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	99.2	-98.2
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	840	0	13.0	0.0	13.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1117	0	16.5	0.0	16.5
3	765 kV	JHARSUGUDA-DURG	2	133	90	1.0	0.0	1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	324	0	4.5	0.0	4.5
5	400 kV	RANCHI-SIPAT	2	406	0	7.3	0.0	7.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	119	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	155	0	2.7	0.0	2.7
						ER-WR	44.9	42.9
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	580	0.0	13.5	-13.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2273	0.0	44.2	-44.2
4	400 kV	TALCHER-I/C	2	141	103	1.0	0.0	1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	97.4	-97.4
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	527	0.0	6.3	-6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	623	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	158	0.0	2.1	-2.1
						ER-NER	14.4	-14.4
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	603	0.0	14.3	-14.3
						NER-NR	14.3	-14.3
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1763	0.0	67.8	-67.8
2	HVDC	VINDHYACHAL B/B	-	93	399	1.1	5.6	-4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	32.3	-32.3
4	765 kV	GWALIOR-AGRA	2	0	2873	0.0	57.6	-57.6
5	765 kV	PHAGI-GWALIOR	2	0	1365	0.0	26.5	-26.5
6	765 kV	JABALPUR-ORAI	2	0	1148	0.0	44.5	-44.5
7	765 kV	GWALIOR-ORAI	1	476	0	9.4	0.0	9.4
8	765 kV	SATNA-ORAI	1	0	1550	0.0	34.5	-34.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1210	0.0	12.5	-12.5
10	400 kV	ZERDA-KANKROLI	1	0	211	0.0	2.9	-2.9
11	400 kV	ZERDA-BHINMAL	1	0	268	0.0	4.6	-4.6
12	400 kV	VINDHYACHAL-RIHAND	1	979	0	22.7	0.0	22.7
13	400 kV	RAPP-SHULJALPUR	2	0	480	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	0	133	0.0	2.6	-2.6
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	93	0	0.2	0.0	-0.1
17	220 kV	MALANPUR-AURAIYA	1	48	47	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
						WR-NR	34.2	299.1
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	20.2	-20.2
2	HVDC	RAIGARH-PUGALUR	2	932	297	0.6	1.8	-1.3
3	765 kV	SOLAPUR-RAICHUR	2	953	1560	0.0	8.0	-8.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1826	0.0	22.0	-22.0
5	400 kV	KOLHAPUR-KUDGI	2	773	0	12.4	0.0	12.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	71	1.3	0.0	1.3
						WR-SR	14.3	52.0
<b>INTERNATIONAL EXCHANGES</b>								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)		
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	585	0	539	12.9		
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1073	1071	1073	25.8		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	363	0	335	8.1		
	NER	132KV-GEYLEGPHU - SALAKATI	-58	-48	-53	-1.3		
	NER	132KV Motanga-Rangia	-63	-41	-53	-1.3		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-56	0	-24	-0.6		
	ER	132KV-BIHAR - NEPAL	-76	-1	-19	-0.5		
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-172	-4	-57	-1.4		
	ER	BHERAMARA HVDC(BANGLADESH)	-943	-929	-943	-22.8		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	78	0	-72	-1.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-72	-1.7		