



**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: 16<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., डोंगतेह, 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 15.09.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 15-सितंबर-2020 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 15<sup>th</sup> 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: 16-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)	65546	47353	35374	21650	2748	172671
Peak Shortage (MW)	50	0	0	0	148	198
Energy Met (MU)	1469	1088	781	478	49	3866
Hydro Gen (MU)	330	74	120	136	21	680
Wind Gen (MU)	10	37	143	-	-	190
Solar Gen (MU)*	32.70	23.95	74.31	4.09	0.07	135
Energy Shortage (MU)	0.0	0.0	0.0	0.0	3.0	3.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66555	47489	36869	22673	2821	173541
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	10:08	19:01	00:02	18:31	19:24

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	0.020	0.00	0.00	3.04	3.04	86.57	10.38

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	11853	0	266.3	149.0	-2.6	49	0.0	
	Haryana	9780	0	219.3	147.7	0.8	173	0.0	
	Rajasthan	12100	0	264.3	89.6	2.4	523	0.0	
	Delhi	5922	0	120.5	105.9	-0.4	184	0.0	
	UP	23271	135	472.3	224.8	-0.6	276	0.0	
	Uttarakhand	1993	0	43.4	22.2	0.4	84	0.0	
	HP	1492	0	32.8	3.1	0.8	155	0.0	
	J&K(UT) & Ladakh(UT)	2382	0	43.9	27.4	-1.7	64	0.0	
WR	Chandigarh	312	0	6.2	6.2	0.0	22	0.0	
	Chhattisgarh	4292	0	102.7	44.9	-1.1	202	0.0	
	Gujarat	13789	0	306.4	90.4	-0.4	587	0.0	
	MP	9903	0	225.7	105.6	-1.1	366	0.0	
	Maharashtra	18499	0	401.8	157.0	-0.6	718	0.0	
	Goa	447	0	9.3	8.8	-0.1	61	0.0	
	DD	323	0	7.2	7.2	0.0	25	0.0	
	DNH	759	0	17.7	17.8	-0.1	30	0.0	
SR	AMNSIL	812	0	17.2	2.4	0.3	279	0.0	
	Andhra Pradesh	7247	0	150.5	41.0	-0.4	711	0.0	
	Telangana	6685	0	140.4	52.8	-2.1	410	0.0	
	Karnataka	7458	0	146.6	54.8	-1.2	614	0.0	
	Kerala	3197	0	63.8	41.7	0.0	160	0.0	
	Tamil Nadu	12605	0	272.4	123.7	-3.8	472	0.0	
	Puducherry	359	0	7.5	8.1	-0.6	15	0.0	
	ER	Bihar	5641	0	109.3	104.4	-1.0	610	0.0
DVC		3160	0	67.6	-43.6	0.5	231	0.0	
Jharkhand		1585	0	30.6	25.9	-1.0	120	0.0	
Odisha		4559	0	95.0	23.0	-1.2	427	0.0	
West Bengal		8425	0	174.2	60.4	1.1	479	0.0	
Sikkim		92	0	1.1	1.3	-0.2	14	0.0	
NER		Arunachal Pradesh	109	2	2.2	2.1	0.1	29	0.0
		Assam	1737	115	30.4	27.2	0.3	123	3.0
	Manipur	201	3	2.6	2.5	0.1	24	0.0	
	Meghalaya	324	0	5.4	1.2	-0.3	92	0.0	
	Mizoram	90	1	1.7	1.0	0.3	10	0.0	
	Nagaland	126	2	2.5	2.4	-0.2	11	0.0	
	Tripura	277	1	4.7	5.8	-0.3	32	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.9	-1.4	-26.3
Day Peak (MW)	2583.0	-195.8	-1119.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.2	-317.5	53.5	-89.6	0.4	0.0
Actual(MU)	358.0	-311.5	33.8	-86.0	0.5	-5.3
OD/UD(MU)	4.8	6.0	-19.7	3.5	0.1	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3101	13288	11602	2445	675	31112
State Sector	6724	18107	16762	5625	11	47229
Total	9825	31395	28364	8070	686	78341

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	660	1144	280	447	7	2539
Lignite	30	12	25	0	0	67
Hydro	330	74	120	136	21	680
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	72	16	0	27	149
RES (Wind, Solar, Biomass & Others)	58	62	249	4	0	373
Total	1138	1386	758	587	55	3924

Share of RES in total generation (%)	5.09	4.49	32.83	0.70	0.13	9.51
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.37	11.35	57.64	23.83	38.54	29.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.048

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: 16-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	1000	0.0	24.0	-24.0	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	469	0.0	5.4	-5.4	
4	765 kV	SASARAM-FATEHPUR	1	293	128	3.9	0.0	3.9	
5	765 kV	GAYA-BALLIA	1	0	617	0.0	11.7	-11.7	
6	400 kV	PUSAULI-VARANASI	1	0	284	0.0	6.2	-6.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	93	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	732	0.0	13.3	-13.3	
9	400 kV	PATNA-BALLIA	4	0	1152	0.0	21.4	-21.4	
10	400 kV	BIHARSHARIF-BALLIA	2	0	543	0.0	10.7	-10.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	301	0.0	4.8	-4.8	
12	400 kV	BIHARSHARIF-VARANASI	2	181	84	1.2	0.0	1.2	
13	220 kV	PUSAULI-SAHUPURI	1	1	0	0.0	0.0	0.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4	
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	5.5	106.1	-100.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSGUDA-DHARAMJAIGARH	4	1260	0	10.8	0.0	10.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1981	0	24.1	0.0	24.1	
3	765 kV	JHARSGUDA-DURG	2	234	49	1.9	0.0	1.9	
4	400 kV	JHARSGUDA-RAIGARH	4	359	115	2.2	0.0	2.2	
5	400 kV	RANCHI-SIPAT	2	681	1	11.1	0.0	11.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	118	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	197	0	2.8	0.0	2.8	
						ER-WR	52.7	1.7	51.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JAYPORE-GAZIWAKA B/B	2	0	379	0.0	8.8	-8.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	29.9	-29.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2234	0.0	29.5	-29.5	
4	400 kV	TALCHER-I/C	2	1319	493	8.6	0.0	8.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	68.2	-68.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	369	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	455	0.0	5.2	-5.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	121	0.0	1.7	-1.7	
						ER-NER	0.0	11.4	-11.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALLAGRA	2	0	553	0.0	13.3	-13.3	
						NER-NR	0.0	13.3	-13.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	65.0	-65.0	
2	HVDC	VINDHYACHAL B/B	-	100	103	2.1	0.2	1.9	
3	HVDC	MUNDRAMOHENDERGARH	2	0	1919	0.0	41.1	-41.1	
4	765 kV	GWALIOR-AGRA	2	0	2947	0.0	55.0	-55.0	
5	765 kV	PHAGI-GWALIOR	2	0	1096	0.0	21.9	-21.9	
6	765 kV	JABALPUR-ORAI	2	0	1153	0.0	45.0	-45.0	
7	765 kV	GWALIOR-ORAI	1	430	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	1	0	1583	0.0	33.6	-33.6	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1038	0.0	14.5	-14.5	
10	400 kV	ZERDA-KANKROLI	1	17	158	0.0	1.4	-1.4	
11	400 kV	ZERDA-BHINMAL	1	19	266	0.0	2.7	-2.7	
12	400 kV	VINDHYACHAL-RIHAND	1	970	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	2	0	496	0.0	7.2	-7.2	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	0.3	-0.3	
15	220 kV	BHANPURA-MORAK	1	0	96	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	1	82	0	0.1	0.3	-0.2	
17	220 kV	MALANPUR-AURAIYA	1	36	40	0.8	0.0	0.8	
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	34.4	289.6	-255.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	823	0.0	11.0	-11.0	
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	3.6	-3.6	
3	765 kV	SOLAPUR-RAICHUR	2	1511	1514	10.7	0.0	10.7	
4	765 kV	WARDHA-NIZAMABAD	2	130	2030	0.0	16.4	-16.4	
5	400 kV	KOLHAPUR-KUDGI	2	814	0	13.7	0.0	13.7	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEM-AMBWADI	1	1	75	0.0	1.4	-1.4	
						WR-SR	25.8	31.0	-5.2

INTERNATIONAL EXCHANGES

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)	1055	0	753	18.1
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1072	1064	1072	25.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	341	0	311	7.5
	NER	132KV-GEYLEGPHU - SALAKATI	53	15	-50	-1.2
	NER	132kV Motanga-Rangia	62	48	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-33	0	-11	-0.3
	ER	132KV-BIHAR - NEPAL	-27	-1	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-136	-2	-45	-1.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-946	-945	-946	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	87	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-75	-1.8