



**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 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., 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 20.09.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20<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: 21-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 <sup>^</sup> )	64583	43188	30344	22866	2838	163819
Peak Shortage (MW)	0	0	0	0	184	184
Energy Met (MU)	1460	1025	718	485	56	3743
Hydro Gen (MU)	311	101	120	132	24	688
Wind Gen (MU)	4	25	144	-	-	174
Solar Gen (MU)*	36.00	24.76	55.49	4.34	0.10	121
Energy Shortage (MU)	0.3	0.0	0.0	0.0	2.6	2.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65889	44420	33042	23155	2850	164173
Time Of Maximum Demand Met (From NLDC SCADA)	22:32	19:02	09:12	00:08	18:21	19:38

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	0.019	0.00	0.00	3.54	3.54	86.18	10.28

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	12252	0	276.3	149.9	-2.6	26	0.0
	Haryana	9679	0	205.4	147.5	0.9	200	0.0
	Rajasthan	11746	0	259.2	85.0	-1.3	321	0.0
	Delhi	5940	0	116.5	100.6	0.0	223	0.0
	UP	23644	170	477.2	217.6	1.8	967	0.3
	Uttarakhand	1778	0	40.6	20.4	0.5	175	0.0
	HP	1305	0	30.2	3.5	-0.2	80	0.0
	J&K(UT) & Ladakh(UT)	2477	0	48.7	25.2	1.1	287	0.0
WR	Chandigarh	273	0	5.4	5.6	-0.1	25	0.0
	Chhattisgarh	4156	0	98.7	33.9	-0.6	200	0.0
	Gujarat	13369	0	296.1	86.3	0.4	618	0.0
	MP	9629	0	215.8	103.0	-4.1	252	0.0
	Maharashtra	16665	0	364.2	124.8	-1.6	598	0.0
	Goa	407	0	8.3	7.6	0.1	66	0.0
	DD	290	0	6.6	6.6	0.0	20	0.0
	DNH	733	0	16.7	16.8	-0.1	72	0.0
SR	AMNSIL	850	0	18.9	4.6	-0.1	266	0.0
	Andhra Pradesh	6574	0	143.5	37.7	-0.3	357	0.0
	Telangana	6658	0	137.4	51.2	-2.0	447	0.0
	Karnataka	6791	0	129.3	47.2	-1.2	625	0.0
	Kerala	2789	0	54.1	27.8	-0.2	139	0.0
	Tamil Nadu	11335	0	246.3	113.6	-5.1	825	0.0
	Puducherry	324	0	7.0	7.4	-0.4	17	0.0
	ER	Bihar	5918	0	123.5	115.6	1.7	500
DVC		2980	0	66.3	-39.7	-0.5	340	0.0
Jharkhand		1778	0	30.2	21.8	-0.1	226	0.0
Odisha		4559	0	93.9	16.8	-0.8	250	0.0
West Bengal		8299	0	170.1	61.1	2.5	400	0.0
Sikkim		67	0	0.9	1.2	-0.2	20	0.0
NER	Arunachal Pradesh	119	1	2.2	2.0	0.2	34	0.0
	Assam	1901	100	36.4	31.8	0.6	153	2.5
	Manipur	156	1	2.8	2.5	0.3	33	0.0
	Meghalaya	287	0	5.5	1.0	-0.4	36	0.0
	Mizoram	87	1	1.7	1.0	0.4	33	0.0
	Nagaland	134	1	2.4	2.5	-0.4	12	0.0
	Tripura	269	39	4.8	6.0	0.3	44	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	-2.6	-26.2
Day Peak (MW)	2254.0	-109.2	-1130.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.0	-306.8	50.1	-97.9	1.6	0.0
Actual(MU)	357.4	-318.6	30.0	-77.6	2.0	-6.8
O/D/U/D(MU)	4.4	-11.8	-20.1	20.3	0.3	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3601	16868	14112	2655	309	37545
State Sector	6894	19415	18032	5355	47	49742
Total	10495	36283	32144	8010	355	87288

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	665	1109	232	455	10	2471
Lignite	31	11	27	0	0	69
Hvdro	311	101	120	132	24	688
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	67	16	0	27	142
RES (Wind, Solar, Biomass & Others)	59	50	232	4	0	346
Total	1125	1359	696	591	60	3831
Share of RES in total generation (%)	5.27	3.71	33.32	0.73	0.17	9.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.25	12.67	60.50	22.99	39.30	30.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.073

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

<sup>^</sup> WR and SR 20:00hrs demand values are from NLDC SCADA

\*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: 21-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	24.6	-24.6	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.5	-7.5	
3	765 kV	GAYA-VARANASI	2	53	379	0.0	5.2	-5.2	
4	765 kV	SASARAM-FATEHPUR	1	279	0	4.5	0.0	4.5	
5	765 kV	GAYA-BALIA	1	0	547	0.0	9.7	-9.7	
6	400 kV	PUSAULI-VARANASI	1	0	288	0.0	6.2	-6.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	94	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	562	0.0	10.2	-10.2	
9	400 kV	PATNA-BALIA	4	0	871	0.0	17.0	-17.0	
10	400 kV	BIHARSHARIFF-BALIA	2	0	392	0.0	6.8	-6.8	
11	400 kV	MOTHARI-GORAKHPUR	2	0	333	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	219	87	1.4	0.0	1.4	
13	220 kV	PUSAULI-SAHUPURI	1	85	134	0.0	1.2	-1.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	6.5	95.1	-88.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	869	0	8.5	0.0	8.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1518	0	27.7	0.0	27.7	
3	765 kV	JHARSUGUDA-DURG	2	196	0	2.5	0.0	2.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	456	0	7.0	0.0	7.0	
5	400 kV	RANCHI-SIPAT	2	498	0	11.0	0.0	11.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	98	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	170	0	3.1	0.0	3.1	
						ER-WR	59.8	1.5	58.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	646	0.0	14.9	-14.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	34.3	-34.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1575	0.0	26.0	-26.0	
4	400 kV	TALCHER-I/C	2	519	337	1.9	0.0	1.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	75.2	-75.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	0	383	0.0	5.6	-5.6	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	0	417	0.0	5.7	-5.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.7	-1.7	
						ER-NER	0.0	13.0	-13.0
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4	
						NER-NR	0.0	13.4	-13.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1756	0.0	70.5	-70.5	
2	HVDC	VINDHYACHAL B/B	-	182	492	1.9	1.8	0.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1547	0.0	32.3	-32.3	
4	765 kV	GWALIOR-AGRA	2	0	2965	0.0	57.1	-57.1	
5	765 kV	PHAGI-GWALIOR	2	0	1040	0.0	19.6	-19.6	
6	765 kV	JABALPUR-ORAI	2	0	1123	0.0	41.8	-41.8	
7	765 kV	GWALIOR-ORAI	1	389	0	7.4	0.0	7.4	
8	765 kV	SATNA-ORAI	1	1615	0	0.0	34.2	-34.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1145	0.0	18.6	-18.6	
10	400 kV	ZERDA-KANKROLI	1	0	216	0.0	2.9	-2.9	
11	400 kV	ZERDA-BHINMAL	1	0	319	0.0	5.0	-5.0	
12	400 kV	VINDHYACHAL-RIHAND	1	960	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHIVAJI	2	0	572	0.0	9.9	-9.9	
14	220 kV	BHANPURA-RANPUR	1	0	145	0.0	2.4	-2.4	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.3	-2.3	
16	220 kV	MEHGAON-AURAIYA	1	74	0	0.1	0.4	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	23	50	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	32.8	298.8	-266.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	97	617	0.0	7.6	-7.6	
2	HVDC	RAIGARH-PTIGALUR	2	0	151	0.0	3.6	-3.6	
3	765 kV	SOLAPUR-RAICHUR	2	1489	65	14.5	0.0	14.5	
4	765 kV	WARDHA-NIZAMABAD	2	153	968	0.0	11.7	-11.7	
5	400 kV	KOLHAPUR-KUDGI	2	798	0	14.3	0.0	14.3	
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	1	66	1.1	0.0	1.1	
						WR-SR	29.9	22.9	7.0

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)	680	641	658	15.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1062	1051	1060	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	362	0	345	8.3
	NER	132KV-GEYLEGPHU - SALAKATI	-60	-39	-47	-1.1
	NER	132kV Motanga-Rangia	-64	-23	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-83	-1	-36	-0.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	192	4	-73	-1.8

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-946	0	-928	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	92	0	-82	-2.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	92	0	-82	-2.0