



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: 03<sup>rd</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 02.09.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02<sup>nd</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: 03-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)	57628	42289	37062	21659	2896	161534
Peak Shortage (MW)	756	0	0	0	10	766
Energy Met (MU)	1275	993	896	440	56	3660
Hydro Gen (MU)	354	120	92	141	20	727
Wind Gen (MU)	6	24	28	-	-	59
Solar Gen (MU)*	31.78	21.96	56.40	4.46	0.09	115
Energy Shortage (MU)	3.5	0.0	0.0	0.0	0.1	3.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60111	43225	42637	21890	2956	162612
Time Of Maximum Demand Met (From NLDC SCADA)	22:12	19:33	09:56	21:10	19:19	19:48

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	0.051	0.08	1.98	11.19	13.25	81.11	5.64

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	10468	0	236.9	144.5	-1.4	54	0.0
	Haryana	9052	63	194.5	163.5	1.6	307	2.0
	Rajasthan	8875	0	190.8	76.3	-0.5	234	0.6
	Delhi	5140	0	102.1	89.4	0.3	193	0.0
	UP	21578	0	428.5	189.9	-0.5	397	0.0
	Uttarakhand	1927	0	41.5	16.7	1.4	145	0.8
	HP	1409	0	31.8	-4.0	-0.9	13	0.0
	J&K(UT) & Ladakh(UT)	2262	0	43.2	25.6	0.1	150	0.0
WR	Chandigarh	297	0	5.9	5.7	0.2	37	0.0
	Chhattisgarh	3438	0	80.0	32.8	-0.8	250	0.0
	Gujarat	12168	0	272.4	57.9	2.5	512	0.0
	MP	8533	0	191.1	115.9	-2.0	471	0.0
	Maharashtra	18724	0	401.1	165.6	1.0	1005	0.0
	Goa	413	0	9.2	8.7	-0.1	56	0.0
	DD	306	0	6.6	6.4	0.2	33	0.0
	DNH	724	0	16.7	16.7	0.0	25	0.0
SR	AMNSIL	705	0	15.5	2.0	0.1	253	0.0
	Andhra Pradesh	8091	0	171.7	89.7	2.1	559	0.0
	Telangana	10570	0	203.7	97.0	-1.6	531	0.0
	Karnataka	9216	0	171.6	76.3	0.2	594	0.0
	Kerala	3010	0	65.3	52.0	-0.2	177	0.0
	Tamil Nadu	12971	0	275.8	162.3	-2.3	431	0.0
	Puducherry	368	0	7.7	8.0	-0.3	24	0.0
	ER	Bihar	5736	0	106.9	105.6	0.8	454
DVC		2973	0	63.8	-47.9	-0.3	266	0.0
Jharkhand		1509	0	27.2	19.6	-1.7	149	0.0
Odisha		4459	0	86.9	3.9	-0.8	173	0.0
West Bengal		7585	0	154.5	37.1	-1.1	369	0.0
Sikkim		91	0	1.1	1.2	-0.1	20	0.0
NER	Arunachal Pradesh	116	1	2.2	2.1	0.1	33	0.0
	Assam	1994	20	37.8	32.1	1.6	175	0.0
	Manipur	207	1	2.4	2.4	0.0	61	0.0
	Meghalaya	353	0	5.3	0.6	-0.3	28	0.0
	Mizoram	93	1	1.6	1.1	0.2	23	0.0
	Nagaland	122	2	2.1	2.4	-0.5	14	0.0
	Tripura	293	1	5.0	4.9	0.3	45	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.0	-2.0	-25.9
Day Peak (MW)	2139.0	-232.7	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	304.7	-325.8	131.3	-119.3	9.6	0.5
Actual(MU)	301.9	-330.4	147.1	-135.6	14.1	-2.9
O/D/U/D(MU)	-2.7	-4.6	15.8	-16.4	4.5	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6709	16403	7692	3305	909	35018
State Sector	11609	24238	12642	4905	11	53405
Total	18318	40641	20334	8210	921	88423

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	495	1075	439	460	7	2477
Lignite	29	7	29	0	0	66
Hydro	354	120	92	141	20	727
Nuclear	27	33	66	0	0	125
Gas, Naptha & Diesel	34	77	16	0	20	146
RES (Wind, Solar, Biomass & Others)	57	47	119	5	0	228
Total	996	1359	761	606	47	3770
Share of RES in total generation (%)	5.77	3.43	15.64	0.74	0.19	6.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.99	14.67	36.34	24.05	41.99	28.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.081

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: 03-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	1098	0.0	26.2	-26.2	
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.9	-4.9	
3	765 kV	GAYA-VARANASI	2	0	552	0.0	8.9	-8.9	
4	765 kV	SASARAM-FATEHPUR	1	151	128	0.0	0.3	-0.3	
5	765 kV	GAYA-BALIA	1	0	488	0.0	8.6	-8.6	
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	6	68	0.0	0.1	-0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	11.4	-11.4	
9	400 kV	PATNA-BALIA	4	0	873	0.0	15.9	-15.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	301	0.0	5.0	-5.0	
11	400 kV	MOTHARI-GORAKHPUR	2	0	350	0.0	6.3	-6.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	119	137	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	1	25	94	0.0	1.0	-1.0	
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	0.4	93.2	-92.8
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1341	0	21.8	0.0	21.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	933	184	10.7	0.0	10.7	
3	765 kV	JHARSUGUDA-DURG	2	202	87	1.4	0.0	1.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	199	45	1.9	0.0	1.9	
5	400 kV	RANCHI-SIPAT	2	320	47	4.1	0.0	4.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	15	98	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	80	17	0.9	0.0	0.9	
						ER-WR	40.7	1.0	39.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	638	0.0	12.9	-12.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	43.2	-43.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2694	0.0	43.9	-43.9	
4	400 kV	TALCHER-I/C	2	264	453	0.0	2.1	-2.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	99.9	-99.9
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	0	589	0.0	10.6	-10.6	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	0	691	0.0	12.5	-12.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	177	0.0	3.4	-3.4	
						ER-NER	0.0	26.5	-26.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	553	0	0.0	13.2	-13.2	
						NER-NR	0.0	13.2	-13.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	48.6	-48.6	
2	HVDC	VINDHYACHAL B/B	-	47	155	0.9	1.0	-0.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	36.3	-36.3	
4	765 kV	GWALIOR-AGRA	2	0	2657	0.0	42.2	-42.2	
5	765 kV	PHAGI-GWALIOR	2	0	1296	0.0	24.5	-24.5	
6	765 kV	JABALPUR-ORAI	2	0	991	0.0	32.6	-32.6	
7	765 kV	GWALIOR-ORAI	1	410	0	8.4	0.0	8.4	
8	765 kV	SATNA-ORAI	1	0	1508	0.0	31.1	-31.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	963	0.0	13.7	-13.7	
10	400 kV	ZERDA-KANKROLI	1	68	155	0.0	1.1	-1.1	
11	400 kV	ZERDA-BHINMAL	1	180	172	0.5	0.0	0.5	
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUALPUR	2	7	390	0.0	2.1	-2.1	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	0.6	-0.6	
15	220 kV	BHANPURA-MORAK	1	0	69	0.0	0.9	-0.9	
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.5	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	1	77	14	1.2	0.0	1.2	
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	34.1	234.8	-200.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	941	0.0	20.2	-20.2	
2	HVDC	RAIGARH-PTGALUR	2	0	1197	0.0	17.7	-17.7	
3	765 kV	SOLAPUR-RAICHUR	2	0	2087	0.0	23.3	-23.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2825	0.0	40.8	-40.8	
5	400 kV	KOLHAPUR-KUDGI	2	646	0	9.3	0.0	9.3	
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	0	84	1.6	0.0	1.6	
						WR-SR	10.9	102.0	-91.1

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)	662	0	627	15.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	994	0	916	22.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	352	0	327	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	61	0	-41	-1.0
	NER	132kV Motanga-Rangia	70	15	-48	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-41	-1	-17	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-192	0	-66	-1.6

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-945	-909	-932	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	89	0	-73	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	90	0	-73	-1.8