



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: 09<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 08.09.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08<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: 09-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)	60392	48046	39271	21826	2931	172466
Peak Shortage (MW)	703	0	0	0	111	814
Energy Met (MU)	1317	1105	934	462	52	3871
Hydro Gen (MU)	330	89	91	149	24	683
Wind Gen (MU)	11	33	80	-	-	124
Solar Gen (MU)*	40.18	27.48	85.07	4.52	0.06	157
Energy Shortage (MU)	2.3	0.0	0.0	0.0	0.1	2.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61347	48278	44566	21770	2963	172678
Time Of Maximum Demand Met (From NLDC SCADA)	22:47	19:15	15:39	19:53	18:52	19:32

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	0.06	2.74	11.56	14.36	81.22	4.42

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	10003	0	224.7	146.9	-1.3	67	0.0
	Haryana	8950	0	192.4	149.2	0.0	190	0.0
	Rajasthan	9082	0	198.2	70.2	-2.2	362	0.0
	Delhi	5287	0	105.9	93.3	-0.8	121	0.0
	UP	23506	85	468.7	221.1	3.1	563	2.3
	Uttarakhand	1930	0	43.5	19.8	1.2	119	0.0
	HP	1426	0	32.2	-0.6	0.0	135	0.0
	J&K(UT) & Ladakh(UT)	2409	0	45.1	25.5	1.7	267	0.0
	Chandigarh	286	0	5.8	5.8	0.1	35	0.0
	Chhattisgarh	4038	0	96.3	40.4	-0.4	173	0.0
WR	Gujarat	14519	0	321.2	80.7	-3.7	457	0.0
	MP	9857	0	224.7	129.3	1.5	1080	0.0
	Maharashtra	18639	0	412.8	166.6	-2.7	522	0.0
	Goa	431	0	9.4	9.2	-0.2	35	0.0
	DD	319	0	7.0	6.9	0.1	26	0.0
	DNH	756	0	17.6	17.5	0.1	38	0.0
	AMNSIL	742	0	16.4	3.2	-0.4	250	0.0
	Andhra Pradesh	9060	0	189.0	96.6	1.4	864	0.0
	Telangana	11704	0	226.8	105.6	-0.9	484	0.0
	Karnataka	8401	0	164.5	72.2	0.3	576	0.0
SR	Kerala	3208	0	66.1	47.1	-0.2	155	0.0
	Tamil Nadu	13017	0	279.1	124.8	-0.3	743	0.0
	Puducherry	390	0	8.2	8.0	0.2	76	0.0
	Bihar	6006	0	115.8	114.1	-0.6	605	0.0
	DVC	2954	0	62.8	-45.3	-0.4	187	0.0
	Jharkhand	1492	0	27.5	23.0	-1.7	119	0.0
	Odisha	4063	0	86.8	25.0	-0.9	179	0.0
	West Bengal	7714	0	168.4	45.8	1.0	390	0.0
	Sikkim	100	0	1.2	1.3	-0.1	14	0.0
	ER	Arunachal Pradesh	116	1	2.2	1.9	0.3	38
Assam		1868	80	32.2	27.8	0.6	182	0.0
Manipur		209	1	2.8	2.6	0.2	28	0.0
Meghalaya		322	0	5.5	0.8	-0.2	61	0.0
Mizoram		91	1	1.7	1.1	0.2	20	0.0
Nagaland		127	2	2.4	2.5	-0.3	8	0.0
Tripura		304	1	5.4	6.1	0.3	66	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.4	-2.5	-26.6
Day Peak (MW)	2327.0	-274.0	-1127.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.5	-331.0	125.8	-114.7	-0.6	0.0
Actual(MU)	313.5	-335.7	144.4	-127.7	0.9	-4.6
O/D/U/D(MU)	-7.0	-4.6	18.6	-13.0	1.4	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3922	13258	9752	1815	675	29423
State Sector	10369	19790	12482	6395	11	49047
Total	14291	33048	22234	8210	686	78469

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	548	1210	410	466	8	2642
Lignite	22	7	21	0	0	50
Hydro	330	89	91	149	24	683
Nuclear	27	20	68	0	0	115
Gas, Naptha & Diesel	28	77	16	0	26	148
RES (Wind, Solar, Biomass & Others)	70	61	197	5	0	333
Total	1025	1464	804	619	58	3970
Share of RES in total generation (%)	6.84	4.17	24.55	0.73	0.10	8.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.62	11.64	44.39	24.76	41.42	28.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.062

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: 09-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	24.9	-24.9
2	HVDC	PUSAULI B/B	-	3	198	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	623	0.0	10.0	-10.0
4	765 kV	SASARAM-EATEHPUR	1	113	220	0.0	0.4	-0.4
5	765 kV	GAYA-BALIA	1	0	547	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	170	0.0	2.1	-2.1
7	400 kV	PUSAULI-ALLAHABAD	1	50	85	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	835	0.0	15.4	-15.4
9	400 kV	PATNA-BALIA	4	0	1049	0.0	20.4	-20.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	423	0.0	6.9	-6.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	344	0.0	6.6	-6.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	241	0.0	2.1	-2.1
13	220 kV	PUSAULI-SAHUPURI	1	0	145	0.0	2.5	-2.5
14	132 kV	SONWARI-RIHAND	1	0	54	0.0	0.0	0.0
15	132 kV	GARWAI-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	100.5	-100.1
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1278	0	23.1	0.0	23.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1153	0	18.7	0.0	18.7
3	765 kV	JHARSUGUDA-DURG	2	248	17	2.3	0.0	2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	182	79	1.6	0.0	1.6
5	400 kV	RANCHI-SIPAT	2	385	0	6.3	0.0	6.3
6	220 kV	BUDHIPADAR-RAIGARH	1	26	52	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	180	0	3.2	0.0	3.2
						ER-WR	55.2	0.3
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	383	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	43.4	-43.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2650	0.0	47.9	-47.9
4	400 kV	TALCHER-I/C	2	0	866	0.0	11.8	-11.8
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	100.0	-100.0
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	403	0.0	4.6	-4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	516	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	129	0.0	1.8	-1.8
						ER-NER	11.6	-11.6
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.2	-13.2
						NER-NR	13.2	-13.2
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	43.2	-43.2
2	HVDC	VINDHYACHAL B/B	-	450	0	12.1	0.0	12.1
3	HVDC	MUNDA-MOHINDERGARH	2	0	1548	0.0	31.1	-31.1
4	765 kV	GWALIOR-AGRA	2	0	2626	0.0	49.5	-49.5
5	765 kV	PHAGI-GWALIOR	2	0	1325	0.0	24.7	-24.7
6	765 kV	JABALPUR-ORAI	2	0	1037	0.0	39.8	-39.8
7	765 kV	GWALIOR-ORAI	1	430	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	1	0	1497	0.0	32.5	-32.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1161	0.0	17.3	-17.3
10	400 kV	ZERDA-KANKROLI	1	26	200	0.0	1.7	-1.7
11	400 kV	ZERDA -BHINMAL	1	276	285	0.0	0.8	-0.8
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUALPUR	2	0	418	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	1	0	103	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	39	0	0.3	0.1	0.3
17	220 kV	MALANPUR-AURAIYA	1	50	36	1.1	0.0	1.1
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	45.0	249.2
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	928	0.0	17.6	-17.6
2	HVDC	RAIGARH-PUGALUR	2	0	992	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	293	2137	0.0	24.8	-24.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2624	0.0	37.9	-37.9
5	400 kV	KOLHAPUR-KUDGI	2	933	0	15.6	0.0	15.6
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	NELDEM-AMBEWADI	1	0	90	1.6	0.0	1.6
						WR-SR	17.2	92.5
<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)	777	771	777	18.9		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. (BINAGURI RECEIPT (from TALA HEP (6*170MW)	1083	0	1053	25.3		
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	353	0	325	7.8		
	NER	132KV-GEYLEGPHU - SALAKATI	57	43	-51	-1.2		
	NER	132KV Motanga-Rangia	58	39	-52	-1.2		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-0.4		
	ER	132KV-BIHAR - NEPAL	-41	0	-4	-0.1		
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-8	-80	-1.9		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-947	-943	-945	-22.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	90	0	-81	-2.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	90	0	-81	-2.0		