



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: 01st 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 31.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-अगस्त-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 31st August 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:

01-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)	55477	42045	39002	22599	2841	161964
Peak Shortage (MW)	0	0	0	289	114	403
Energy Met (MU)	1189	945	932	479	51	3596
Hydro Gen (MU)	356	90	93	143	21	703
Wind Gen (MU)	25	119	64	-	-	207
Solar Gen (MU)*	18.02	22.87	101.25	4.59	0.04	147
Energy Shortage (MU)	0.1	0.0	0.0	0.9	4.7	5.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57019	42275	43076	23074	2968	162873
Time Of Maximum Demand Met (From NLDC SCADA)	22:20	19:37	15:30	22:40	19:01	19:33

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	0.068	0.83	2.89	11.34	15.07	74.55	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	9754	0	211.5	136.6	-1.5	5	0.0
	Haryana	8134	0	173.3	159.8	1.2	244	0.0
	Rajasthan	7899	0	174.7	71.6	-8.5	415	0.0
	Delhi	4430	0	93.3	82.4	-1.6	122	0.1
	UP	21824	0	413.8	196.5	-1.7	286	0.0
	Uttarakhand	1831	0	39.7	14.3	0.4	142	0.0
	HP	1387	0	30.4	-5.6	-0.8	59	0.0
	J&K(UT) & Ladakh(UT)	2236	0	46.6	24.7	0.8	357	0.0
WR	Chhattisgarh	263	0	5.4	5.5	-0.2	12	0.0
	Chhattisgarh	3625	0	82.9	28.2	-0.1	182	0.0
	Gujarat	12108	0	256.8	38.3	1.0	1169	0.0
	MP	8255	0	178.2	105.0	1.6	851	0.0
	Maharashtra	17378	0	378.1	136.7	-0.4	856	0.0
	Goa	519	0	9.5	8.8	0.1	69	0.0
	DD	291	0	6.3	6.3	0.0	148	0.0
	DNH	710	0	16.4	16.4	0.0	180	0.0
SR	AMNSIL	743	0	16.7	2.8	-0.1	269	0.0
	Andhra Pradesh	8717	0	183.4	97.1	0.8	681	0.0
	Telangana	10138	0	197.5	76.8	0.6	474	0.0
	Karnataka	9814	0	183.5	75.7	0.7	613	0.0
	Kerala	3203	0	64.1	50.1	-0.2	195	0.0
	Tamil Nadu	13101	0	296.1	138.0	3.1	671	0.0
ER	Puducherry	394	0	7.8	8.1	-0.3	32	0.0
	Bihar	6094	70	121.6	117.5	3.4	654	0.2
	DVC	2969	0	64.9	-36.0	-0.1	252	0.0
	Jharkhand	1517	219	29.1	20.6	-0.8	180	0.7
	Odisha	4286	0	90.1	9.1	0.6	323	0.0
	West Bengal	8663	0	172.1	49.5	1.3	552	0.0
NER	Sikkim	84	0	1.0	1.1	-0.1	18	0.0
	Arunachal Pradesh	119	1	2.0	2.0	0.0	51	0.0
	Assam	1834	80	32.3	27.7	0.4	136	4.6
	Manipur	186	2	2.8	2.5	0.3	34	0.0
	Meghalaya	303	0	5.2	0.5	-0.2	24	0.0
	Mizoram	94	1	1.7	1.1	0.3	14	0.0
	Nagaland	126	1	2.3	2.3	-0.3	14	0.0
Tripura	279	1	4.8	6.0	-0.5	28	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.1	-2.0	-26.0
Day Peak (MW)	2249.0	-252.3	-1106.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	286.5	-326.2	112.8	-75.9	2.8	0.0
Actual(MU)	265.6	-345.1	136.6	-57.6	2.8	2.3
O/D/U/D(MU)	-20.9	-18.9	23.8	18.3	0.0	2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6099	17733	8712	3615	546	36705
State Sector	11999	25779	12462	4065	11	54316
Total	18098	43512	21174	7680	557	91021

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	458	994	417	428	7	2303
Lignite	15	8	20	0	0	42
Hydro	356	90	93	143	21	703
Nuclear	27	33	69	0	0	129
Gas, Naptha & Diesel	31	56	15	0	25	127
RES (Wind, Solar, Biomass & Others)	66	142	193	5	0	405
Total	952	1322	806	575	54	3709

Share of RES in total generation (%)	6.89	10.76	23.87	0.79	0.07	10.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.09	20.02	44.04	25.64	39.13	33.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.064

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: 01-Sep-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1402	0.0	33.0	-33.0	
2	HVDC	PUSAULI B/B	-	0	199	0.0	4.8	-4.8	
3	765 kV	GAYA-VARANASI	2	160	341	0.0	1.1	-1.1	
4	765 kV	SASARAM-FATEHPUR	1	403	0	5.6	0.0	5.6	
5	765 kV	GAYA-BALIA	1	0	456	0.0	6.7	-6.7	
6	400 kV	PUSAULI-VARANASI	1	0	256	0.0	5.1	-5.1	
7	400 kV	PUSAULI -ALLAHABAD	1	48	30	0.4	0.0	0.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	569	0.0	7.5	-7.5	
9	400 kV	PATNA-BALIA	4	0	499	0.0	5.4	-5.4	
10	400 kV	BIHARSHARIFF-BALIA	2	0	250	0.0	2.6	-2.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	264	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	283	12	3.5	0.0	3.5	
13	220 kV	PUSAULI-SAHUPURI	1	34	122	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	0.3	0.0	0.3	
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	9.9	71.3	-61.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1419	0	25.1	0.0	25.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1621	0	25.8	0.0	25.8	
3	765 kV	JHARSUGUDA-DURG	2	347	0	3.3	0.0	3.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	414	0	5.1	0.0	5.1	
5	400 kV	RANCHI-SIPAT	2	579	0	9.2	0.0	9.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	26	64	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	205	0	3.5	0.0	3.5	
						ER-WR	71.9	0.6	71.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	41.4	-41.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2361	0.0	42.0	-42.0	
4	400 kV	TALCHER-I/C	2	56	643	0.0	4.3	-4.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	92.0	-92.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	471	0.0	7.4	-7.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	464	0.0	5.6	-5.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	141	0.0	2.1	-2.1	
						ER-NER	0.0	15.1	-15.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.4	-14.4	
						NER-NR	0.0	14.4	-14.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	38.7	-38.7	
2	HVDC	VINDHYACHAL B/B	-	450	53	4.4	0.0	4.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1362	0.0	29.3	-29.3	
4	765 kV	GWALIOR-AGRA	2	0	2584	0.0	48.3	-48.3	
5	765 kV	PHAGI-GWALIOR	2	0	1243	0.0	21.8	-21.8	
6	765 kV	JABALPUR-ORAI	2	0	926	0.0	34.5	-34.5	
7	765 kV	GWALIOR-ORAI	1	396	0	7.4	0.0	7.4	
8	765 kV	SATNA-ORAI	1	0	1481	0.0	32.7	-32.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1103	0.0	16.3	-16.3	
10	400 kV	ZERDA-KANKROLI	1	46	130	1.4	0.0	1.4	
11	400 kV	ZERDA -BHINMAL	1	90	146	0.8	0.0	0.8	
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUJALPUR	2	3	332	0.0	4.0	-4.0	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.0	-1.0	
15	220 kV	BHANPURA-MORAK	1	0	101	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	1	75	14	0.0	0.3	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	30	46	0.4	0.0	0.4	
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	37.0	228.0	-191.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	938	0.0	18.5	-18.5	
2	HVDC	RAIGARH-PUGALUR	2	0	1198	0.0	20.9	-20.9	
3	765 kV	SOLAPUR-RAICHUR	2	133	2290	0.0	20.8	-20.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2563	0.0	34.7	-34.7	
5	400 kV	KOLHAPUR-KUDGI	2	828	0	10.6	0.0	10.6	
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	XELDEM-AMBEWADI	1	1	76	0.8	0.0	0.8	
						WR-SR	11.5	95.0	-83.5

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)	719	0	580	13.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1007	0	963	23.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	390	0	323	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	70	0	-50	-1.2
	NER	132kV Motanga-Rangia	63	25	-46	-1.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-44	0	-19	-0.5
	ER	132KV-BIHAR - NEPAL	-74	-1	-12	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-134	-8	-54	-1.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-948	-945	-947	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	79	0	-67	-1.6