



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: 30th Aug 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 29.08.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-अगस्त-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट राभाप्रेके 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 29th 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: 30-Aug-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)	56925	40246	38744	22103	2734	160752
Peak Shortage (MW)	67	0	0	0	11	78
Energy Met (MU)	1225	925	939	461	53	3603
Hydro Gen (MU)	343	92	110	147	21	713
Wind Gen (MU)	6	96	124	-	-	226
Solar Gen (MU)*	18.36	15.18	98.25	4.64	0.09	137
Energy Shortage (MU)	0.3	0.0	0.0	0.0	0.1	0.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58463	41230	43699	22262	2802	161461
Time Of Maximum Demand Met (From NLDC SCADA)	22:13	09:27	10:19	22:45	19:03	19:25

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	0.028	0.00	0.00	5.72	5.72	85.74	8.54

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	9644	0	206.0	132.2	-1.4	48	0.0
	Haryana	8805	0	188.2	174.2	2.3	371	0.2
	Rajasthan	9572	0	218.3	107.5	1.3	549	0.0
	Delhi	4920	0	96.7	85.1	-1.7	135	0.0
	UP	20760	0	397.9	171.8	-1.4	356	0.0
	Uttarakhand	1884	0	39.5	13.9	1.1	215	0.1
	HP	1379	1	31.8	-4.5	-0.2	219	0.0
	J&K(UT) & Ladakh(UT)	2216	0	41.5	23.4	1.9	360	0.0
	Chandigarh	261	0	5.3	5.2	0.1	36	0.0
	Chhattisgarh	3048	0	68.0	14.5	0.3	194	0.0
WR	Gujarat	12325	0	271.6	74.2	1.5	669	0.0
	MP	7292	0	163.4	83.6	-2.1	573	0.0
	Maharashtra	17806	0	372.2	134.6	-2.7	617	0.0
	Goa	413	0	8.9	8.3	0.0	28	0.0
	DD	303	0	6.6	6.4	0.2	34	0.0
	DNH	727	0	16.6	16.6	0.0	35	0.0
	AMNSIL	835	0	17.9	3.1	0.2	306	0.0
	Andhra Pradesh	8730	0	184.8	77.4	2.7	994	0.0
SR	Telangana	8845	0	175.2	64.9	-1.3	331	0.0
	Karnataka	10562	0	195.7	73.3	-0.6	382	0.0
	Kerala	3449	0	71.1	51.6	0.0	149	0.0
	Tamil Nadu	13855	0	303.8	129.2	-2.9	503	0.0
	Puducherry	382	0	8.1	8.3	-0.2	28	0.0
ER	Bihar	5881	0	115.6	110.2	2.3	553	0.0
	DVC	2872	0	62.6	-37.2	-0.7	243	0.0
	Jharkhand	1476	0	28.8	19.6	-0.1	122	0.0
	Odisha	4129	0	86.9	12.8	-0.4	186	0.0
	West Bengal	8350	0	165.9	51.3	2.3	636	0.0
NER	Sikkim	84	0	1.1	1.2	-0.2	15	0.0
	Arunachal Pradesh	116	0	1.8	1.8	0.0	28	0.0
	Assam	1780	0	34.8	30.3	0.9	94	0.0
	Manipur	192	1	2.7	2.5	0.2	22	0.0
	Meghalaya	304	0	5.4	0.4	-0.2	41	0.0
	Mizoram	94	2	1.6	1.2	0.3	17	0.0
	Nagaland	126	3	2.1	2.4	-0.5	21	0.0
	Tripura	285	1	5.0	5.7	0.0	39	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.6	-1.4	-23.1
Day Peak (MW)	2193.0	-206.8	-1105.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.3	-286.5	81.8	-108.6	4.1	0.0
Actual(MU)	311.0	-300.8	83.4	-104.4	6.0	-4.8
O/D/U/D(MU)	1.7	-14.3	1.6	4.2	1.9	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6009	19878	9512	2155	640	38193
State Sector	11779	26606	13212	6032	11	57640
Total	17788	46484	22724	8187	651	95834

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	472	950	401	445	7	2275
Lignite	23	8	23	0	0	54
Hvdro	343	92	110	147	21	713
Nuclear	27	33	68	0	0	128
Gas, Naptha & Diesel	31	70	13	0	25	140
RES (Wind, Solar, Biomass & Others)	46	112	251	5	0	414
Total	942	1264	868	597	53	3724
Share of RES in total generation (%)	4.92	8.87	28.93	0.78	0.17	11.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.15	18.73	49.50	25.41	39.60	33.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.076

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: 30-Aug-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	1403	0.0	35.6	-35.6	
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.9	-4.9	
3	765 kV	GAYA-VARANASI	2	0	457	0.0	6.5	-6.5	
4	765 kV	SASARAM-FATEHPUR	1	253	0	3.1	0.0	3.1	
5	765 kV	GAYA-BALIA	1	0	550	0.0	9.7	-9.7	
6	400 kV	PUSAULI-VARANASI	1	0	216	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	10	50	0.0	0.3	-0.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	552	0.0	9.7	-9.7	
9	400 kV	PATNA-BALIA	4	0	871	0.0	15.5	-15.5	
10	400 kV	BIHARSHARIF-BALIA	2	0	346	0.0	6.5	-6.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	319	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIF-VARANASI	2	164	32	1.5	0.0	1.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	172	0.0	2.3	-2.3	
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	5.0	100.3	-95.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	934	0	13.6	0.0	13.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1416	0	24.3	0.0	24.3	
3	765 kV	JHARSUGUDA-DURG	2	129	0	0.3	0.0	0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	409	0	5.0	0.0	5.0	
5	400 kV	RANCHI-SIPAT	2	507	0	8.7	0.0	8.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	27	53	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	193	0	3.4	0.0	3.4	
						ER-WR	55.4	0.5	54.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2251	0.0	38.8	-38.8	
4	400 kV	TALCHER-I/C	2	132	182	0.0	0.3	-0.3	
5	220 kV	BALMELA-UPPER-SILERU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	87.1	-87.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	505	0.0	8.9	-8.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	468	0.0	7.6	-7.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	139	0.0	2.7	-2.7	
						ER-NER	0.0	19.1	-19.1
Import/Export of ER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	850	0.0	19.5	-19.5	
2	HVDC	VINDHYACHAL B/B	-	446	104	9.6	0.1	9.5	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1919	0.0	41.3	-41.3	
4	765 kV	GWALIOR-AGRA	2	0	2800	0.0	52.7	-52.7	
5	765 kV	PHAGI-GWALIOR	2	0	1633	0.0	32.4	-32.4	
6	765 kV	JABALPUR-ORAI	2	0	1100	0.0	42.1	-42.1	
7	765 kV	GWALIOR-ORAI	1	494	0	9.7	0.0	9.7	
8	765 kV	SATNA-ORAI	1	0	1518	0.0	32.2	-32.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	902	0.0	12.2	-12.2	
10	400 kV	ZERDA-KANKROLI	1	33	157	0.0	1.6	-1.6	
11	400 kV	ZERDA-BHINMAL	1	0	287	0.0	3.2	-3.2	
12	400 kV	VINDHYACHAL-RIHAND	1	981	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	0	628	0.0	11.2	-11.2	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.2	-2.2	
15	220 kV	BHANPURA-MORAK	1	0	132	0.0	2.2	-2.2	
16	220 kV	MEHGAON-AURAIYA	1	90	0	0.2	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	1	57	21	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	42.9	253.0	-210.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	796	0.0	18.4	-18.4	
2	HVDC	RAIGARH-PUGALUR	2	0	0	2.9	0.0	2.9	
3	765 kV	SOLAPUR-RAICHUR	2	601	1393	0.0	6.2	-6.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2084	0.0	23.4	-23.4	
5	400 kV	KOLHAPUR-KUDGI	2	530	0	6.7	0.0	6.7	
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	87	1.6	0.0	1.6	
						WR-SR	11.1	48.0	-36.9

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)	656	609	631	15.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1076	0	1063	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	355	0	324	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	70	47	-63	-1.5
	NER	132kV Motanga-Rangia	37	18	-28	-0.7
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-43	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-10	0	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-154	-2	-37	-0.9
	ER	BHERAMARA HVDC(BANGLADESH)	-945	0	-818	-19.6

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-72	-1.7