



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: 04th 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., 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 03.08.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-अगस्त-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 03rd 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: 04-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)	55901	40256	34813	22784	2886	156640
Peak Shortage (MW)	708	0	0	0	89	797
Energy Met (MU)	1325	1003	805	474	55	3662
Hydro Gen (MU)	356	21	73	140	30	621
Wind Gen (MU)	44	66	198	-	-	308
Solar Gen (MU)*	41.40	21.37	56.83	4.39	0.04	124
Energy Shortage (MU)	9.8	0.0	0.0	0.0	1.0	10.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61693	43306	39198	23660	2865	160341
Time Of Maximum Demand Met (From NLDC SCADA)	22:34	06:54	12:15	20:59	20:12	22:34

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	3.81	3.81	78.27	17.93

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	11851	0	256.0	144.9	-0.8	89	0.0
	Haryana	8771	0	191.9	166.5	1.0	241	0.0
	Rajasthan	10481	0	230.0	67.9	-6.0	311	0.0
	Delhi	5415	0	105.1	91.2	-2.0	250	0.0
	UP	21406	0	431.1	212.7	0.1	1006	0.0
	Uttarakhand	1612	0	35.4	16.9	-1.0	62	0.0
	HP	1260	0	28.7	-4.7	-1.9	22	0.0
	J&K(UT) & Ladakh(UT)	2164	541	41.2	18.1	0.4	493	9.8
WR	Chandigarh	304	0	6.0	6.0	-0.1	34	0.0
	Chhattisgarh	4322	0	100.6	35.0	-0.5	245	0.0
	Gujarat	13109	0	281.9	107.9	-3.2	440	0.0
	MP	9400	0	209.2	117.6	-4.0	430	0.0
	Maharashtra	16664	0	369.9	127.8	-5.3	405	0.0
	Goa	440	0	8.6	8.6	-0.4	38	0.0
	DD	195	0	3.8	4.0	-0.1	11	0.0
	DNH	549	0	12.7	12.9	-0.2	30	0.0
SR	AMNSIL	812	0	15.9	4.2	0.5	324	0.0
	Andhra Pradesh	7220	0	157.0	33.5	1.9	541	0.0
	Telangana	9725	0	189.0	83.0	0.4	470	0.0
	Karnataka	7754	0	147.4	38.7	-3.2	696	0.0
	Kerala	2805	0	58.2	43.6	0.3	155	0.0
	Tamil Nadu	11922	0	246.6	82.8	-4.5	500	0.0
ER	Puducherry	342	0	6.9	7.4	-0.4	19	0.0
	Bihar	6123	0	118.3	112.9	1.5	490	0.0
	DVC	3083	0	63.3	-34.3	0.8	330	0.0
	Jharkhand	1515	0	27.4	20.6	-1.7	120	0.0
	Odisha	4165	0	84.0	6.5	-0.2	325	0.0
	West Bengal	9161	0	179.8	60.3	2.1	450	0.0
NER	Sikkim	94	0	1.0	1.2	-0.2	15	0.0
	Arunachal Pradesh	110	1	1.8	1.5	0.3	43	0.0
	Assam	1887	67	35.8	32.1	0.0	180	1.0
	Manipur	202	1	2.9	2.5	0.3	25	0.0
	Meghalaya	289	0	5.1	0.0	-0.3	30	0.0
	Mizoram	92	1	1.7	1.2	0.3	13	0.0
	Nagaland	121	1	2.3	2.4	-0.4	7	0.0
Tripura	293	3	5.5	6.2	0.4	44	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.2	-2.2	-26.1
Day Peak (MW)	2286.0	-114.3	-1098.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	311.2	-260.8	60.6	-108.3	-2.7	0.0
Actual(MU)	299.9	-269.1	43.0	-76.0	-2.0	-4.2
O/D/U/D(MU)	-11.3	-8.3	-17.6	32.3	0.7	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4508	14337	11112	2345	580	32881
State Sector	10414	20549	14170	5542	47	50721
Total	14922	34885	25282	7887	626	83602

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	513	1084	338	447	7	2388
Lignite	17	10	20	0	0	47
Hvdro	356	21	73	140	30	621
Nuclear	21	33	23	0	0	77
Gas, Naptha & Diesel	41	49	13	0	25	128
RES (Wind, Solar, Biomass & Others)	106	98	308	4	0	516
Total	1054	1294	775	592	63	3777

Share of RES in total generation (%)

	NR	WR	SR	ER	NER	TOTAL
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	10.03	7.58	39.73	0.75	0.06	13.66
	45.86	11.69	52.11	24.49	48.65	32.14

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.065
Based on State Max Demands	1.096

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: 04-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	1802	0.0	42.8	-42.8	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.6	-9.6	
3	765 kV	GAYA-VARANASI	2	0	670	0.0	7.7	-7.7	
4	765 kV	SASARAM-FATEHPUR	1	306	0	4.8	0.0	4.8	
5	765 kV	GAYA-BALIA	1	0	484	0.0	4.5	-4.5	
6	400 kV	PUSAULI-VARANASI	1	0	332	0.0	7.1	-7.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	132	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	78	390	0.0	6.0	-6.0	
9	400 kV	PATNA-BALIA	4	0	860	0.0	14.3	-14.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	244	0.0	3.6	-3.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	186	10	1.4	0.0	1.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	125	0.0	1.8	-1.8	
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	6.6	105.4	-98.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1071	0	17.8	0.0	17.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1595	0	28.6	0.0	28.6	
3	765 kV	JHARSUGUDA-DURG	2	230	0	3.2	0.0	3.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	223	131	1.5	0.0	1.5	
5	400 kV	RANCHI-SIPAT	2	550	0	10.2	0.0	10.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	26	99	0.0	0.7	-0.7	
7	220 kV	BUDHIPADAR-KORBA	2	179	0	3.2	0.0	3.2	
						ER-WR	64.4	0.7	63.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.8	-12.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1727	0.0	34.2	-34.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1891	0.0	29.3	-29.3	
4	400 kV	TALCHER-I/C	2	901	656	5.8	0.0	5.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	76.3	-76.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	670	0.0	7.6	-7.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	23	0	0.0	2.0	-2.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	54	0.0	2.0	-2.0	
						ER-NER	0.0	11.6	-11.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	15.9	-15.9	
						NER-NR	0.0	15.9	-15.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	33.9	-33.9	
2	HVDC	VINDHYACHAL B/B	-	272	0	7.3	0.0	7.3	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1916	0.0	30.6	-30.6	
4	765 kV	GWALIOR-AGRA	2	0	2971	0.0	51.4	-51.4	
5	765 kV	PHAGI-GWALIOR	2	0	1585	0.0	26.2	-26.2	
6	765 kV	JABALPUR-ORAI	2	0	1197	0.0	43.4	-43.4	
7	765 kV	GWALIOR-ORAI	1	405	0	7.6	0.0	7.6	
8	765 kV	SATNA-ORAI	1	0	1578	0.0	31.9	-31.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1008	0.0	9.9	-9.9	
10	400 kV	ZERDA-KANKROLI	1	109	118	0.4	0.0	0.4	
11	400 kV	ZERDA-BHINMAL	1	287	84	2.3	0.0	2.3	
12	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	0	581	0.0	7.4	-7.4	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.7	-1.7	
15	220 kV	BHANPURA-MORAK	1	0	114	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	1	85	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	51	18	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	41.8	238.3	-196.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	779	0.0	7.1	-7.1	
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	2	1191	994	4.2	0.0	4.2	
4	765 kV	WARDHA-NIZAMABAD	2	249	1888	0.0	19.6	-19.6	
5	400 kV	KOLHAPUR-KUDGI	2	824	0	14.1	0.0	14.1	
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	68	0.6	0.0	0.6	
						WR-SR	18.9	26.7	-7.8

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)	765	0	764	18.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1061	1051	1058	25.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	373	0	329	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-53	-45	-50	-1.2
	NER	132kV Motanga-Rangia	-60	-51	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-36	-0.9
	ER	132KV-BIHAR - NEPAL	68	-41	2	0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-130	5	-58	-1.4

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-958	-951	-955	-22.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	70	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-65	-1.6