



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: 17th Jul 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 16.07.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 16th July 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: 17-Jul-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)	59817	41470	34391	21665	2739	160082
Peak Shortage (MW)	1110	0	0	0	10	1120
Energy Met (MU)	1420	974	780	458	51	3683
Hydro Gen (MU)	346	29	70	152	29	626
Wind Gen (MU)	13	46	142	-	-	202
Solar Gen (MU)*	36.95	17.30	49.86	4.56	0.04	109
Energy Shortage (MU)	10.6	0.0	0.0	0.0	0.0	10.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65318	41756	35382	21825	2698	161136
Time Of Maximum Demand Met (From NLDC SCADA)	23:24	10:51	09:05	21:22	19:20	20:51

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	0.042	0.00	1.25	9.27	10.52	76.61	12.87

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	11083	0	250.8	146.0	-0.5	176	0.0
	Haryana	9502	0	214.1	151.1	1.7	307	0.1
	Rajasthan	11983	0	260.6	117.9	1.6	567	0.0
	Delhi	5695	0	116.0	101.4	-1.4	196	0.0
	UP	23137	0	455.7	213.8	0.3	691	0.1
	Uttarakhand	1939	0	43.5	22.4	2.1	400	0.0
	HP	1430	0	29.3	-2.3	-0.5	134	0.0
	J&K(UT) & Ladakh(UT)	2194	548	43.8	21.7	-1.0	269	10.4
WR	Chandigarh	317	0	6.2	6.1	0.1	31	0.0
	Chhattisgarh	3814	0	91.1	40.3	0.9	369	0.0
	Gujarat	12593	0	273.0	89.4	3.5	707	0.0
	MP	9486	0	213.8	118.3	-0.3	409	0.0
	Maharashtra	16327	0	352.3	134.3	-3.6	581	0.0
	Goa	390	0	8.4	8.2	-0.4	28	0.0
	DD	239	0	5.2	5.2	0.0	12	0.0
	DNH	624	0	14.1	14.1	0.0	35	0.0
SR	AMNSIL	790	0	16.5	6.5	-0.8	221	0.0
	Andhra Pradesh	6619	0	139.0	42.3	0.1	559	0.0
	Telangana	8069	0	164.8	71.7	-1.1	329	0.0
	Karnataka	7466	0	138.5	45.2	-3.1	621	0.0
	Kerala	2922	0	62.6	46.2	0.8	177	0.0
	Tamil Nadu	12178	0	268.2	115.0	-3.9	654	0.0
	Puducherry	347	0	7.4	7.6	-0.2	34	0.0
	ER	Bihar	5839	0	117.6	113.8	-0.9	330
DVC		2965	0	65.1	-43.9	0.6	269	0.0
Jharkhand		1352	0	27.3	19.8	-1.4	88	0.0
Odisha		4025	0	83.0	1.2	-0.4	453	0.0
West Bengal		8063	0	163.8	46.0	0.9	439	0.0
Sikkim		97	0	1.4	1.5	-0.1	15	0.0
NER	Arunachal Pradesh	108	1	2.0	1.8	0.1	36	0.0
	Assam	1699	23	32.1	28.3	0.3	122	0.0
	Manipur	189	1	2.6	2.4	0.2	54	0.0
	Meghalaya	299	0	5.1	-1.1	-0.2	39	0.0
	Mizoram	93	1	1.6	1.2	0.1	12	0.0
	Nagaland	135	2	2.4	2.4	-0.3	33	0.0
	Tripura	292	1	5.0	6.1	0.4	74	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	55.0	-1.3	-25.5
Day Peak (MW)	2310.0	-188.5	-1117.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	359.4	-308.1	78.8	-125.6	-4.5	0.0
Actual(MU)	365.8	-304.1	59.4	-115.6	-4.0	1.5
OD/UD(MU)	6.5	4.0	-19.4	10.0	0.5	1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3838	14847	12892	3175	677	35428
State Sector	8944	21365	15115	4892	47	50363
Total	12782	36212	28007	8067	723	85790

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	575	1098	345	460	7	2486
Lignite	23	13	13	0	0	49
Hydro	346	29	70	152	29	626
Nuclear	26	33	47	0	0	106
Gas, Naptha & Diesel	35	57	19	0	24	135
RES (Wind, Solar, Biomass & Others)	71	73	241	5	0	389
Total	1077	1303	735	616	61	3792
Share of RES in total generation (%)	6.56	5.59	32.76	0.76	0.07	10.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.14	10.36	48.68	25.37	48.10	29.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.082

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: 17-Jul-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	D/C	0	1002	0.0	24.7	-24.7	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.8	-9.8	
3	765 kV	GAYA-VARANASI	D/C	0	712	0.0	12.2	-12.2	
4	765 kV	SASARAM-FATEHPUR	S/C	0	0	1.1	0.0	1.1	
5	765 kV	GAYA-BALIA	S/C	0	0	0.0	4.6	-4.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	0	0.0	6.3	-6.3	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	0	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	823	0.0	14.7	-14.7	
9	400 kV	PATNA-BALIA	O/C	0	1015	0.0	17.0	-17.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	406	0.0	7.0	-7.0	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	334	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	39	171	0.0	1.6	-1.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	0	0.0	1.9	-1.9	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	0	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	37	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDLAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.5	108.6	-107.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	837	240	6.4	0.0	6.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1047	8	13.6	0.0	13.6	
3	765 kV	JHARSUGUDA-DURG	D/C	95	212	0.0	1.4	-1.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	32538	315	0.0	3.3	-3.3	
5	400 kV	RANCHI-SIPAT	D/C	341	6	4.8	0.0	4.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	104	26	1.2	0.0	1.2	
						ER-WR	25.9	6.1	19.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	369	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1458	0.0	28.4	-28.4	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2309	0.0	34.4	-34.4	
4	400 kV	TALCHER-I/C	D/C	1885	0	15.8	0.0	15.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0	
						ER-SR	0.0	71.3	-71.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	364	0.0	3.5	-3.5	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	13	443	0.0	3.5	-3.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	123	0.0	1.6	-1.6	
						ER-NER	0.0	8.6	-8.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	603	0.0	14.8	-14.8	
						NER-NR	0.0	14.8	-14.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1755	0.0	71.9	-71.9	
2	HVDC	VINDHYACHAL B/B	-	0	296	0.0	5.7	-5.7	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1915	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	D/C	0	2824	0.0	45.5	-45.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1486	0.0	25.4	-25.4	
6	765 kV	JABALPUR-ORAI	D/C	0	1184	0.0	38.3	-38.3	
7	765 kV	GWALIOR-ORAI	S/C	477	0	9.2	0.0	9.2	
8	765 kV	SATNA-ORAI	S/C	0	1574	0.0	32.1	-32.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1015	0.0	8.0	-8.0	
10	400 kV	ZERDA-KANKROLI	S/C	88	195	0.0	1.1	-1.1	
11	400 kV	ZERDA-BHINMAL	S/C	210	315	0.0	1.2	-1.2	
12	400 kV	VINDHYACHAL -RIHAND	S/C	972	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHEJALPUR	D/C	30	551	0.0	2.8	-2.8	
14	220 kV	BHANPURA-BANPUR	S/C	11	0	0.0	1.5	-1.5	
15	220 kV	BHANPURA-MORAK	S/C	0	115	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	103	0	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	S/C	65	30	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	33.0	283.8	-250.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.4	-7.4	
2	HVDC	RAIGARH-PTGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	1001	1934	2.7	16.7	-14.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	1957	0.0	20.8	-20.8	
5	400 kV	KOLHAPUR-KUDGI	D/C	725	0	8.7	0.0	8.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	S/C	0	84	1.5	0.0	1.5	
						WR-SR	12.8	45.0	-32.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	356	342	326	7.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	780	773	784	18.8
	ER	TALA (6 * 170) BINAGURI RECEIPT	1063	1051	1077	25.9
	NER	132KV-SALAKATI - GELEPHU	51	0	48	1.2
	NER	132KV-RANGIA - DEOTHANG	67	0	55	1.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-54	0	-29	-0.7
	ER	132KV-BIHAR - NEPAL	-73	-1	-12	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-62	-2	-13	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-946	-914	-914	-21.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-74	-1.8