



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: 16th 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., 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 15.07.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 15-जुलाई-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 15th 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: 16-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)	59882	41115	34238	21526	2730	159491
Peak Shortage (MW)	1114	0	0	0	6	1120
Energy Met (MU)	1398	998	807	447	48	3698
Hydro Gen (MU)	355	33	77	149	29	643
Wind Gen (MU)	11	49	128	-	-	187
Solar Gen (MU)*	39.60	16.60	41.59	4.60	0.03	102
Energy Shortage (MU)	12.6	0.0	0.0	0.0	0.0	12.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65470	43593	38117	21535	2827	160654
Time Of Maximum Demand Met (From NLDC SCADA)	22:20	10:29	10:00	21:20	19:41	21:26

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	0.057	0.16	1.81	13.19	15.16	76.52	8.32

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	11090	0	237.9	146.8	-1.8	49	0.0
	Haryana	9388	0	209.4	152.8	0.7	325	1.9
	Rajasthan	12087	0	262.4	119.7	5.4	809	0.0
	Delhi	5726	0	118.6	102.8	-1.4	228	0.0
	UP	22873	0	448.9	208.5	2.0	546	0.4
	Uttarakhand	1899	0	42.8	20.7	0.8	111	0.0
	HP	1366	0	28.6	-2.6	-0.2	91	0.0
	J&K(UT) & Ladakh(UT)	2177	544	43.1	20.3	0.4	502	10.3
WR	Chandigarh	295	0	6.0	5.9	0.2	61	0.0
	Chhattisgarh	3685	0	86.9	36.8	0.8	468	0.0
	Gujarat	13478	0	286.2	87.6	4.0	527	0.0
	MP	9547	0	214.7	113.8	-3.8	198	0.0
	Maharashtra	16964	0	365.1	138.1	-1.9	457	0.0
	Goa	405	0	8.5	8.2	-0.2	33	0.0
	DD	246	0	5.3	5.3	0.0	19	0.0
	DNH	614	0	14.0	13.8	0.2	44	0.0
SR	AMNSIL	777	0	17.1	4.2	0.7	272	0.0
	Andhra Pradesh	6439	0	141.0	45.6	-1.3	607	0.0
	Telangana	8614	0	167.3	81.6	-2.5	385	0.0
	Karnataka	8486	0	155.1	51.1	-3.4	650	0.0
	Kerala	3077	0	65.2	46.1	0.5	179	0.0
	Tamil Nadu	12371	0	271.3	125.9	-3.7	573	0.0
	Puducherry	349	0	7.5	7.5	-0.1	35	0.0
	ER	Bihar	5740	0	111.5	106.0	-0.3	386
DVC		2989	0	62.7	-42.6	-0.7	206	0.0
Jharkhand		1438	0	26.3	18.5	-1.0	124	0.0
Odisha		3983	0	82.2	-0.2	-0.2	325	0.0
West Bengal		7917	0	162.6	47.2	-0.8	303	0.0
NER	Sikkim	100	0	1.4	1.5	-0.1	17	0.0
	Arunachal Pradesh	120	3	2.0	1.8	0.2	40	0.0
	Assam	1759	23	30.0	27.1	-0.1	135	0.0
	Manipur	183	1	2.6	2.3	0.3	37	0.0
	Meghalaya	307	2	5.3	-1.3	0.3	52	0.0
	Mizoram	89	1	1.5	1.2	0.0	13	0.0
	Nagaland	140	2	2.2	2.3	-0.2	23	0.0
Tripura	298	7	4.9	5.9	0.7	66	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.3	-1.5	-19.1
Day Peak (MW)	2337.0	-271.3	-1110.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	352.1	-295.4	95.0	-145.8	-6.0	0.0
Actual(MU)	359.2	-293.7	84.6	-152.6	-3.4	-6.0
O/D/U/D(MU)	7.1	1.6	-10.5	-6.9	2.6	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3838	14847	11792	3445	677	34598
State Sector	9289	23225	14423	4892	47	51876
Total	13127	38072	26215	8337	723	86473

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	546	1080	370	482	7	2486
Lignite	25	13	14	0	0	52
Hydro	355	33	77	149	29	643
Nuclear	26	33	47	0	0	106
Gas, Naptha & Diesel	40	82	19	0	22	163
RES (Wind, Solar, Biomass & Others)	71	73	210	5	0	359
Total	1063	1314	737	636	58	3809

Share of RES in total generation (%)	6.71	5.54	28.51	0.73	0.05	9.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.55	10.54	45.35	24.19	49.63	29.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.102

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: 16-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	1001	0.0	24.4	-24.4	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.6	-9.6	
3	765 kV	GAYA-VARANASI	D/C	0	655	0.0	12.9	-12.9	
4	765 kV	SASARAM-FATEHPUR	S/C	108	119	0.0	0.9	-0.9	
5	765 kV	GAYA-BALIA	S/C	0	478	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	283	0.0	5.9	-5.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	180	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	834	0.0	15.5	-15.5	
9	400 kV	PATNA-BALIA	Q/C	0	973	0.0	17.5	-17.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	411	0.0	7.5	-7.5	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	329	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	11	226	0.0	3.2	-3.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	100	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	30	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.4	113.1	-112.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	639	347	2.3	0.0	2.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	868	265	7.6	0.0	7.6	
3	765 kV	JHARSUGUDA-DURG	D/C	44	359	0.0	4.6	-4.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	37	248	0.0	3.0	-3.0	
5	400 kV	RANCHI-SIPAT	D/C	282	70	2.6	0.0	2.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	103	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	102	0	1.4	0.0	1.4	
						ER-WR	13.9	9.0	4.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	533	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1458	0.0	35.6	-35.6	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2156	0.0	34.5	-34.5	
4	400 kV	TALCHER-I/C	D/C	1330	0	8.9	0.0	8.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	82.4	-82.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	444	0.0	5.4	-5.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	489	0.0	6.4	-6.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	142	0.0	2.1	-2.1	
						ER-NER	0.0	13.9	-13.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	1006	0.0	20.4	-20.4	
						NER-NR	0.0	20.4	-20.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2001	0.0	73.8	-73.8	
2	HVDC	VINDHYACHAL B/B	-	453	296	5.0	1.8	3.2	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1918	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	D/C	0	2658	0.0	42.8	-42.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1400	0.0	25.3	-25.3	
6	765 kV	JABALPUR-ORAI	D/C	0	1081	0.0	36.4	-36.4	
7	765 kV	GWALIOR-ORAI	S/C	471	0	9.1	0.0	9.1	
8	765 kV	SATNA-ORAI	S/C	0	1536	0.0	31.2	-31.2	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1114	0.0	7.3	-7.3	
10	400 kV	ZERDA-KANKROLI	S/C	56	177	0.0	0.7	-0.7	
11	400 kV	ZERDA -BHINMAL	S/C	26	295	0.0	2.0	-2.0	
12	400 kV	VINDHYACHAL -RIHAND	S/C	982	0	22.8	0.0	22.8	
13	400 kV	RAPP-SHUJALPUR	D/C	0	469	0.0	6.1	-6.1	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.7	-1.7	
15	220 kV	BHANPURA-MORAK	S/C	0	125	0.0	2.0	-2.0	
16	220 kV	MEHGAON-AURAIYA	S/C	107	0	0.5	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	S/C	65	23	1.4	0.0	1.4	
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	38.8	279.4	-240.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	603	0.0	7.5	-7.5	
2	HVDC	RAIGARH-PUGALUR	D/C	0	1492	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1930	0.0	22.0	-22.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2243	0.0	29.2	-29.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	803	0	10.3	0.0	10.3	
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	81	1.4	0.0	1.4	
						WR-SR	11.7	58.6	-46.9
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	360	343	280	6.7			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	781	778	776	18.6			
	ER	TALA (6 * 170) BINAGURI RECEIPT	1063	1053	1057	25.4			
	NER	132KV-SALAKATI - GELEPHU	65	0	52	1.3			
	NER	132KV-RANGIA - DEOTHANG	68	0	53	1.3			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-60	0	-26	-0.6			
	ER	132KV-BIHAR - NEPAL	-81	-10	-14	-0.3			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-130	-4	-24	-0.6			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-946	-516	-655	-15.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-71	-1.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-71	-1.7			