



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: 10th 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 09.07.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 09-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 09th 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:

10-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)	57880	40963	36070	20873	2662	158448
Peak Shortage (MW)	734	0	0	0	157	891
Energy Met (MU)	1324	983	837	440	50	3635
Hydro Gen (MU)	363	34	80	149	29	656
Wind Gen (MU)	17	83	71	-	-	171
Solar Gen (MU)*	39.30	21.40	57.77	4.49	0.02	123
Energy Shortage (MU)	11.6	0.0	0.0	0.0	1.4	13.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63242	41495	38294	21402	2693	162367
Time Of Maximum Demand Met (From NLDC SCADA)	22:20	10:50:00	09:51	21:37	20:03	18:31:00

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	0.024	0.00	0.27	3.03	3.30	81.16	15.54

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	11513	0	248.9	147.1	-0.5	122	0.0
	Haryana	9302	0	194.3	143.6	1.2	299	0.0
	Rajasthan	10930	0	239.6	90.2	-2.9	175	0.0
	Delhi	5647	0	107.4	91.5	-0.1	275	0.0
	UP	21161	340	415.7	198.6	0.9	685	1.1
	Uttarakhand	1935	0	42.3	19.4	1.5	241	0.0
	HP	1385	0	28.1	-3.6	-0.6	83	0.1
	J&K(UT) & Ladakh(UT)	2130	533	41.7	20.5	0.4	218	10.4
	Chandigarh	309	0	5.9	6.1	-0.2	21	0.0
	Chhattisgarh	4033	0	95.7	35.0	-0.1	258	0.0
WR	Gujarat	12556	0	270.8	89.8	1.7	446	0.0
	MP	9024	0	205.0	126.2	0.4	517	0.0
	Maharashtra	16572	0	366.3	136.1	0.2	594	0.0
	Goa	415	0	8.8	8.5	-0.2	42	0.0
	DD	237	0	5.2	5.0	0.2	26	0.0
	DNH	609	0	13.8	13.6	0.2	83	0.0
	AMNSIL	790	0	17.5	6.4	-0.4	209	0.0
	Andhra Pradesh	7190	0	151.5	61.5	0.0	554	0.0
SR	Telangana	8534	0	172.2	86.9	0.7	963	0.0
	Karnataka	8203	0	157.7	52.4	0.2	645	0.0
	Kerala	3006	0	63.1	48.3	0.4	195	0.0
	Tamil Nadu	12881	0	285.4	136.0	-2.9	321	0.0
	Puducherry	342	0	7.3	7.7	-0.4	17	0.0
ER	Bihar	5383	0	100.2	93.7	0.6	602	0.0
	DVC	3355	0	62.6	-39.7	0.9	222	0.0
	Jharkhand	1332	0	26.3	19.0	-1.4	187	0.0
	Odisha	3945	0	83.7	4.9	-0.1	302	0.0
	West Bengal	7711	0	166.4	49.3	1.2	498	0.0
NER	Sikkim	84	0	1.3	1.5	-0.2	10	0.0
	Arunachal Pradesh	127	2	2.1	2.0	0.2	67	0.0
	Assam	1674	144	30.4	26.6	0.5	240	1.4
	Manipur	184	1	3.1	2.5	0.6	33	0.0
	Meghalaya	277	0	5.4	-0.5	-0.3	55	0.0
	Mizoram	91	1	1.7	1.3	0.2	11	0.0
	Nagaland	139	1	2.7	2.6	0.0	15	0.0
	Tripura	288	1	4.6	6.0	-0.1	44	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.7	-2.1	-24.2
Day Peak (MW)	2317.0	-255.5	-1122.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	291.2	-282.5	131.9	-133.3	-7.4	0.0
Actual(MU)	293.4	-290.1	144.6	-142.2	-8.0	-2.3
O/D/U/D(MU)	2.1	-7.6	12.7	-8.9	-0.6	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5226	15298	11452	2580	296	34852
State Sector	8904	25676	12983	4842	47	52452
Total	14130	40974	24435	7422	343	87304

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	541	1011	376	477	10	2415
Lignite	27	10	19	0	0	56
Hvdro	363	34	81	149	29	656
Nuclear	26	31	43	0	0	101
Gas, Naptha & Diesel	25	76	20	0	25	146
RES (Wind, Solar, Biomass & Others)	77	120	166	5	0	367
Total	1059	1283	705	630	64	3742
Share of RES in total generation (%)	7.23	9.36	23.56	0.72	0.03	9.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.03	14.44	41.07	24.33	45.00	30.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.080
Based on State Max Demands	1.006

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: 10-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	1403	0.0	32.9	-32.9	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.4	-9.4	
3	765 kV	GAYA-VARANASI	D/C	0	832	0.0	11.4	-11.4	
4	765 kV	SASARAM-FATEHPUR	S/C	133	208	0.0	0.4	-0.4	
5	765 kV	GAYA-BALIA	S/C	0	461	0.0	3.6	-3.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	272	0.0	5.9	-5.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	195	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	811	0.0	15.3	-15.3	
9	400 kV	PATNA-BALIA	O/C	0	856	0.0	15.7	-15.7	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	415	0.0	6.6	-6.6	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	325	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIF-VARANASI	D/C	1	234	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	104	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	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.3	114.4	-114.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1151	0	20.9	0.0	20.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	774	94	9.6	0.0	9.6	
3	765 kV	JHARSUGUDA-DURG	D/C	92	106	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	44	272	0.0	2.8	-2.8	
5	400 kV	RANCHI-SIPAT	D/C	248	78	2.6	0.0	2.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	D/C	166	0	2.5	0.0	2.5	
						ER-WR	35.7	4.6	31.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	520	0.0	12.1	-12.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1838	0.0	45.2	-45.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2659	0.0	49.4	-49.4	
4	400 kV	TALCHER-J/C	D/C	410	414	0.0	0.3	-0.3	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	106.7	-106.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	344	0.0	3.0	-3.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	174	277	0.0	0.0	0.0	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	2	94	0.0	1.0	-1.0	
						ER-NER	0.0	4.1	-4.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	604	0.0	14.5	-14.5	
						NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	32.1	-32.1	
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4	
3	HVDC	MUNDRAL-MOHINDERGARH	D/C	0	1906	0.0	33.7	-33.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2320	0.0	37.7	-37.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	1171	0.0	20.7	-20.7	
6	765 kV	JABALPUR-ORAI	D/C	0	956	0.0	32.0	-32.0	
7	765 kV	GWALIOR-ORAI	S/C	439	0	8.2	0.0	8.2	
8	765 kV	SATNA-ORAI	S/C	0	1368	0.0	27.1	-27.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1032	0.0	13.8	-13.8	
10	400 kV	ZERDA-KANKROLI	S/C	36	119	0.0	0.8	-0.8	
11	400 kV	ZERDA-BHINMAL	S/C	92	131	0.0	0.8	-0.8	
12	400 kV	VINDHYACHAL-RIHAND	S/C	964	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	93	277	0.0	2.5	-2.5	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.7	-1.7	
15	220 kV	BHANPURA-MORAK	S/C	0	120	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	S/C	116	13	0.5	0.1	0.4	
17	220 kV	MALANPUR-AURAIYA	S/C	83	35	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	32.2	207.3	-175.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.8	-23.8	
2	HVDC	BARSUR-L-SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	0	2360	0.0	35.8	-35.8	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2203	0.0	30.6	-30.6	
6	400 kV	KOLHAPUR-KUDGI	D/C	645	83	5.2	0.0	5.2	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	87	1.5	0.0	1.5	
						WR-SR	6.7	90.1	-83.4

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	348	343	325	7.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	780	777	775	18.6
	ER	TALA (6 * 170) BINAGURI RECEIPT	1066	1054	1068	25.6
	NER	132KV-SALAKATI - GELEPHU	55	0	51	1.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	68	0	58	1.4
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-28	0	-16	-0.4
	ER	132KV-BIHAR - NEPAL	-56	-6	-10	-0.2
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-172	-2	-60	-1.4
	ER	Bheramara HVDC (Bangladesh)	-959	-528	-865	-20.8
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-1	82	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-2	81	0	-71	-1.7