



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: 18th 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 17.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 17-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 17th 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: 18-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)	60376	42577	34986	22053	2732	162724
Peak Shortage (MW)	932	0	0	0	183	1115
Energy Met (MU)	1419	997	807	473	51	3747
Hydro Gen (MU)	349	27	69	149	28	623
Wind Gen (MU)	12	54	144	-	-	210
Solar Gen (MU)*	37.85	22.50	64.32	4.41	0.04	129
Energy Shortage (MU)	11.8	0.0	0.0	0.0	1.1	13.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65616	42492	37617	22339	2735	163719
Time Of Maximum Demand Met (From NLDC SCADA)	22:32	10:04	09:58	22:56	19:13	20:56

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	0.038	0.10	0.83	6.28	7.22	80.51	12.27

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	10893	0	237.6	150.6	-0.6	122	0.0
	Haryana	9585	0	213.6	149.4	1.9	206	0.7
	Rajasthan	12156	0	265.6	117.1	3.2	410	0.0
	Delhi	5736	0	117.8	102.7	-0.8	339	0.0
	UP	23419	0	463.1	224.2	2.7	482	0.4
	Uttarakhand	1987	0	43.9	22.0	0.8	138	0.0
	HP	1389	0	29.5	-2.1	-0.8	83	0.0
	J&K(UT) & Ladakh(UT)	2114	373	41.9	21.1	-2.2	890	10.8
WR	Chandigarh	329	0	6.5	6.3	0.1	26	0.0
	Chhattisgarh	3968	0	94.9	31.2	0.6	231	0.0
	Gujarat	12844	0	277.4	84.9	1.7	569	0.0
	MP	9742	0	222.5	122.8	-2.5	273	0.0
	Maharashtra	16273	0	355.7	117.5	-2.6	632	0.0
	Goa	387	0	8.1	7.7	-0.1	47	0.0
	DD	250	0	5.3	5.3	0.0	32	0.0
	AMNSIL	841	0	18.6	6.8	0.0	264	0.0
SR	Andhra Pradesh	6792	0	145.8	47.5	1.8	746	0.0
	Telangana	9570	0	186.8	80.6	0.8	545	0.0
	Karnataka	7545	0	143.6	39.6	-3.0	683	0.0
	Kerala	2907	0	58.3	45.6	0.4	161	0.0
	Tamil Nadu	12540	0	265.5	102.8	-3.0	545	0.0
	Puducherry	342	0	7.5	7.6	-0.1	29	0.0
ER	Bihar	5871	0	120.0	115.3	-1.7	271	0.0
	DVC	3047	0	66.3	-44.7	0.8	401	0.0
	Jharkhand	1406	0	28.6	20.5	-0.9	167	0.0
	Odisha	4134	0	87.0	7.8	-0.1	537	0.0
	West Bengal	8374	0	170.1	49.8	0.3	567	0.0
NER	Sikkim	90	0	1.3	1.4	-0.1	19	0.0
	Arunachal Pradesh	96	1	1.9	1.7	0.2	40	0.0
	Assam	1735	135	32.0	27.4	1.1	119	1.1
	Manipur	180	2	3.0	2.5	0.5	47	0.0
	Meghalaya	303	0	5.3	-0.8	-0.3	57	0.0
	Mizoram	95	1	1.5	1.2	0.0	9	0.0
	Nagaland	131	1	2.3	2.4	-0.4	49	0.0
Tripura	286	2	5.1	6.2	0.2	63	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.1	-1.5	-25.7
Day Peak (MW)	2308.0	-189.4	-1104.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	362.3	-317.4	83.1	-122.9	-5.1	0.0
Actual(MU)	379.9	-337.6	65.9	-116.3	-2.6	-10.6
O/D/U/D(MU)	17.6	-20.3	-17.1	6.6	2.6	-10.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3838	14847	12892	1650	677	33903
State Sector	9564	19120	14955	5492	47	49178
Total	13402	33967	27847	7142	723	83080

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	568	1117	342	474	7	2509
Lignite	22	14	14	0	0	50
Hydro	349	27	70	149	28	623
Nuclear	26	33	47	0	0	106
Gas, Naptha & Diesel	36	67	19	0	24	146
RES (Wind, Solar, Biomass & Others)	70	85	256	4	0	415
Total	1072	1342	748	628	59	3849

Share of RES in total generation (%)	6.54	6.30	34.23	0.71	0.07	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.56	10.73	49.85	24.44	47.59	29.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.087

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: 18-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	24.1	-24.1	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	0	692	0.0	11.6	-11.6	
4	765 kV	SASARAM-FATEHPUR	S/C	118	55	1.1	0.0	1.1	
5	765 kV	GAYA-BALIA	S/C	0	535	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	284	0.0	6.3	-6.3	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	158	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	791	0.0	15.7	-15.7	
9	400 kV	PATNA-BALIA	Q/C	0	1008	0.0	17.1	-17.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	400	0.0	7.0	-7.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	345	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	0	184	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	107	0.0	2.1	-2.1	
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-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.5	109.2	-107.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	895	0	9.7	0.0	9.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1062	0	16.3	0.0	16.3	
3	765 kV	JHARSUGUDA-DURG	D/C	154	167	0.9	0.0	0.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	166	123	0.2	0.0	0.2	
5	400 kV	RANCHI-SIPAT	D/C	356	0	5.7	0.0	5.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	95	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	148	0	2.4	0.0	2.4	
						ER-WR	35.2	1.2	34.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	366	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1563	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2251	0.0	34.6	-34.6	
4	400 kV	TALCHER-I/C	D/C	404	498	2.7	0.0	2.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	79.2	-79.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	369	0.0	4.0	-4.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	448	0.0	3.8	-3.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	127	0.0	1.7	-1.7	
						ER-NER	0.0	9.5	-9.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	603	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	1502	0.0	71.5	-71.5	
2	HVDC	VINDHYACHAL B/B	-	404	201	0.0	4.9	-4.9	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	2097	0.0	53.2	-53.2	
4	765 kV	GWALIOR-AGRA	D/C	0	2747	0.0	48.8	-48.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1446	0.0	26.4	-26.4	
6	765 kV	JABALPUR-ORAI	D/C	0	1164	0.0	41.0	-41.0	
7	765 kV	GWALIOR-ORAI	S/C	462	0	9.6	0.0	9.6	
8	765 kV	SATNA-ORAI	S/C	0	1552	0.0	31.4	-31.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	989	0.0	11.1	-11.1	
10	400 kV	ZERDA-KANKROLI	S/C	50	187	0.0	1.2	-1.2	
11	400 kV	ZERDA -BHINMAL	S/C	105	310	0.0	1.8	-1.8	
12	400 kV	VINDHYACHAL -RIHAND	S/C	973	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	0	528	0.0	6.7	-6.7	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.3	-1.3	
15	220 kV	BHANPURA-MORAK	S/C	0	110	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	S/C	92	0	0.2	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	54	27	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	379.89	-337.6	0	0	0.0	-10.6	0.0	
						WR-NR	33.3	-10.6	-267.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	309	0.0	7.4	-7.4	
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.8	-0.8	
3	765 kV	SOLAPUR-RAICHUR	D/C	985	1777	0.0	11.2	-11.2	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2153	0.0	24.3	-24.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	877	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	77	1.3	0.0	1.3	
						WR-SR	11.6	43.6	-32.0

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	358	354	331	8.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	781	770	763	18.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	1057	1049	1056	25.3
	NER	132KV-SALAKATI - GELEPHU	51	0	49	1.2
	NER	132KV-RANGIA - DEOTHANG	62	0	54	1.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-55	0	-30	-0.7
	ER	132KV-BIHAR - NEPAL	-80	-1	-18	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-54	-4	-13	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-938	-935	-936	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-68	-1.6