



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: 19th 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 18.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	60087	43360	35796	22345	2695	164283
Peak Shortage (MW)	803	0	0	0	191	994
Energy Met (MU)	1418	1022	824	480	49	3793
Hydro Gen (MU)	354	33	88	152	30	657
Wind Gen (MU)	5	54	65	-	-	125
Solar Gen (MU)*	34.45	25.75	71.42	4.32	0.03	136
Energy Shortage (MU)	10.8	0.0	0.0	0.0	2.6	13.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64373	43821	38048	22902	2754	165723
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	15:30	08:55	22:49	19:06	20:06

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	0.034	0.00	0.28	8.31	8.59	84.08	7.34

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	11072	0	252.5	158.2	-0.8	66	0.0
	Haryana	9439	0	206.5	146.7	2.1	256	0.1
	Rajasthan	12408	0	268.5	130.4	1.9	493	0.0
	Delhi	5611	0	113.7	99.1	-1.8	111	0.0
	UP	22772	0	453.3	216.9	-3.1	621	0.0
	Uttarakhand	1846	0	41.6	20.4	0.8	235	0.0
	HP	1413	0	30.5	-2.2	0.3	128	0.0
	J&K(UT) & Ladakh(UT)	2156	539	44.7	20.8	0.9	265	10.7
Chandigarh	310	0	6.4	6.2	0.2	36	0.0	
WR	Chhattisgarh	4167	0	97.9	33.1	0.5	399	0.0
	Gujarat	12805	0	282.9	71.9	-1.1	567	0.0
	MP	10146	0	229.2	122.2	-1.1	286	0.0
	Maharashtra	16705	0	366.6	123.2	-0.2	513	0.0
	Goa	398	0	8.0	7.6	-0.1	58	0.0
	DD	242	0	5.3	5.1	0.1	23	0.0
	DNH	612	0	14.0	13.9	0.1	41	0.0
SR	AMNSIL	828	0	17.8	5.5	0.0	270	0.0
	Andhra Pradesh	7016	0	148.0	59.9	2.2	602	0.0
	Telangana	9714	0	194.8	87.0	0.5	396	0.0
	Karnataka	7636	0	146.7	45.9	-0.6	624	0.0
	Kerala	2821	0	59.9	48.0	0.3	176	0.0
	Tamil Nadu	12785	0	267.6	120.8	-0.9	603	0.0
ER	Puducherry	348	0	7.5	7.6	-0.1	29	0.0
	Bihar	5793	0	119.1	113.6	-0.2	200	0.0
	DVC	3008	0	66.4	-43.6	-0.4	290	0.0
	Jharkhand	1379	0	29.1	21.0	-0.7	140	0.0
	Odisha	4714	0	91.8	7.5	-0.2	280	0.0
	West Bengal	8440	0	172.9	51.9	0.9	400	0.0
	Sikkim	99	0	1.3	1.4	-0.1	30	0.0
NER	Arunachal Pradesh	102	1	1.8	1.7	0.1	39	0.0
	Assam	1673	170	30.3	26.8	0.0	125	2.6
	Manipur	189	1	2.2	2.5	-0.3	37	0.0
	Meghalaya	342	0	5.6	-1.0	0.0	89	0.0
	Mizoram	95	1	1.6	1.2	0.1	16	0.0
	Nagaland	129	1	2.1	2.3	-0.5	21	0.0
	Tripura	289	0	4.9	6.3	0.1	77	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.6	-0.6	-25.8
Day Peak (MW)	2246.0	-169.5	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	363.5	-331.6	108.7	-134.2	-6.5	0.0
Actual(MU)	371.5	-339.1	118.3	-138.1	-10.2	2.4
O/D/U/D(MU)	8.0	-7.5	9.6	-3.9	-3.7	2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3578	16197	12232	1350	677	34033
State Sector	9814	19949	15055	5492	47	50357
Total	13392	36146	27287	6842	723	84389

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	572	1142	377	505	8	2604
Lignite	21	15	18	0	0	54
Hydro	354	33	88	152	30	657
Nuclear	26	33	47	0	0	106
Gas, Naptha & Diesel	39	59	19	0	24	141
RES (Wind, Solar, Biomass & Others)	61	92	178	4	0	335
Total	1073	1374	727	662	63	3899
Share of RES in total generation (%)	5.67	6.67	24.54	0.66	0.05	8.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.10	11.44	43.18	23.66	48.01	28.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.083

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: 19-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	1201	0.0	26.2	-26.2	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.6	-9.6	
3	765 kV	GAYA-VARANASI	D/C	0	673	0.0	12.6	-12.6	
4	765 kV	SASARAM-FATEHPUR	S/C	140	123	0.0	0.1	-0.1	
5	765 kV	GAYA-BALIA	S/C	0	544	0.0	9.2	-9.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	288	0.0	6.0	-6.0	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	181	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	843	0.0	16.2	-16.2	
9	400 kV	PATNA-BALIA	Q/C	0	1009	0.0	19.5	-19.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	411	0.0	7.7	-7.7	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	344	0.0	6.5	-6.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	16	249	0.0	2.9	-2.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	106	0.0	2.0	-2.0	
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	0.4	121.9	-121.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1374	0	16.0	0.0	16.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	888	130	14.5	0.0	14.5	
3	765 kV	JHARSUGUDA-DURG	D/C	229	166	0.9	0.0	0.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	117	167	0.0	0.8	-0.8	
5	400 kV	RANCHI-SIPAT	D/C	302	27	5.2	0.0	5.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	143	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	108	0	1.6	0.0	1.6	
						ER-WR	38.1	2.9	35.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	368	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1836	0.0	45.5	-45.5	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2613	0.0	42.9	-42.9	
4	400 kV	TALCHER-I/C	D/C	256	406	0.0	0.6	-0.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	96.9	-96.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	438	0.0	3.5	-3.5	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	82	493	0.0	2.2	-2.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	137	0.0	1.3	-1.3	
						ER-NER	0.0	7.0	-7.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	705	0.0	19.8	-19.8	
						NER-NR	0.0	19.8	-19.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	44.4	-44.4	
2	HVDC	VINDHYACHAL B/B	-	0	201	0.0	4.9	-4.9	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	2096	0.0	35.9	-35.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2637	0.0	49.3	-49.3	
5	765 kV	PHAGI-GWALIOR	D/C	0	1450	0.0	29.6	-29.6	
6	765 kV	JABALPUR-ORAI	D/C	0	1102	0.0	41.6	-41.6	
7	765 kV	GWALIOR-ORAI	S/C	528	0	10.7	0.0	10.7	
8	765 kV	SAJINA-ORAI	S/C	0	1516	0.0	31.1	-31.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1278	0.0	20.3	-20.3	
10	400 kV	ZERDA-KANKROLI	S/C	0	246	0.0	3.3	-3.3	
11	400 kV	ZERDA-BHINMAL	S/C	0	373	0.0	5.7	-5.7	
12	400 kV	VINDHYACHAL -RIHAND	S/C	976	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	0	532	0.0	8.0	-8.0	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.6	-1.6	
15	220 kV	BHANPURA-MORAK	S/C	0	118	0.0	1.8	-1.8	
16	220 kV	MEHGAON-AURAIYA	S/C	101	0	0.2	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	59	25	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	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	34.5	277.6	-243.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	309	0.0	10.5	-10.5	
2	HVDC	BAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	433	2548	0.0	23.9	-23.9	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2616	0.0	33.6	-33.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	637	50	6.6	0.0	6.6	
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	72	1.3	0.0	1.3	
						WR-SR	8.0	68.0	-60.0
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	354	345	328	7.9			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	782	777	739	17.7			
	ER	TALA (6 * 170) BINAGURI RECEIPT	1059	1054	1065	25.6			
	NER	132KV-SALAKATI - GELEPHU	63	0	49	1.2			
NEPAL	NER	132KV-RANGIA - DEOTHANG	71	0	54	1.3			
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-60	0	-23	-0.6			
	ER	132KV-BIHAR - NEPAL	74	0	1	0.0			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	36	-25	-4	-0.1			
	ER	Bheramara HVDC(Bangladesh)	-943	-935	-936	-22.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-70	-1.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-70	-1.7			