



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: 24th 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 23.07.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:

24-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)	55154	43822	36798	20398	2627	158799
Peak Shortage (MW)	663	0	0	0	4	667
Energy Met (MU)	1219	1055	861	411	49	3595
Hydro Gen (MU)	336	21	122	132	30	642
Wind Gen (MU)	37	52	22	-	-	112
Solar Gen (MU)*	42.06	21.90	49.34	4.30	0.03	118
Energy Shortage (MU)	11.1	0.0	0.0	0.0	0.0	11.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58685	45951	39146	20455	2646	159652
Time Of Maximum Demand Met (From NLDC SCADA)	22:29	10:54	09:36	20:31	19:05	20:03

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	0.023	0.00	0.00	4.59	4.59	84.41	10.99

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	9520	0	214.8	140.5	0.4	164	0.0
	Haryana	7569	0	155.3	125.9	1.1	234	0.0
	Rajasthan	11384	0	244.1	80.3	-3.3	311	0.0
	Delhi	4453	0	88.2	78.0	-0.6	161	0.0
	UP	21459	0	400.1	178.4	2.0	601	0.5
	Uttarakhand	1763	0	39.0	17.8	0.0	90	0.0
	HP	1374	0	28.5	-3.6	1.9	178	0.0
	J&K(UT) & Ladakh(UT)	2239	560	44.0	19.1	1.9	334	10.5
WR	Chandigarh	271	0	5.2	5.3	-0.1	28	0.0
	Chhattisgarh	3744	0	88.2	28.1	-0.9	123	0.0
	Gujarat	14586	0	321.1	98.7	-0.7	609	0.0
	MP	9646	0	217.3	114.0	-2.9	421	0.0
	Maharashtra	17773	0	381.7	154.3	-3.5	528	0.0
	Goa	453	0	9.1	8.5	0.1	65	0.0
	DD	245	0	5.4	5.3	0.1	20	0.0
	DNH	643	0	14.4	14.5	-0.1	48	0.0
SR	AMNSIL	791	0	17.5	7.6	-1.0	250	0.0
	Andhra Pradesh	7292	0	154.4	73.7	0.7	734	0.0
	Telangana	8000	0	173.0	80.1	-1.9	563	0.0
	Karnataka	8470	0	162.1	62.7	3.0	723	0.0
	Kerala	3136	0	66.8	46.5	0.9	193	0.0
	Tamil Nadu	13473	0	296.8	162.0	-0.7	359	0.0
	Puducherry	374	0	7.9	7.7	0.1	64	0.0
	ER	Bihar	5221	0	98.8	96.4	-3.4	139
DVC		2859	0	63.4	-40.8	0.1	233	0.0
Jharkhand		1393	0	24.9	17.4	-0.8	217	0.0
Odisha		4163	0	86.6	6.1	-0.5	248	0.0
West Bengal		7066	0	136.5	43.4	-0.9	569	0.0
NER	Sikkim	76	0	1.0	1.1	-0.1	15	0.0
	Arunachal Pradesh	78	1	1.3	1.2	0.1	41	0.0
	Assam	1654	15	31.6	27.7	0.4	148	0.0
	Manipur	179	1	2.5	2.5	0.0	12	0.0
	Meghalaya	312	2	5.4	0.1	-0.1	36	0.0
	Mizoram	98	1	1.6	1.3	0.0	20	0.0
NER	Nagaland	137	1	2.2	2.3	-0.4	15	0.0
	Tripura	271	3	4.5	5.9	-0.4	10	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.0	-0.9	-25.5
Day Peak (MW)	2235.0	-87.4	-1077.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	262.6	-257.2	131.3	-130.3	-6.4	0.0
Actual(MU)	246.5	-260.0	163.3	-143.6	-7.1	-0.9
O/D/U/D(MU)	-16.1	-2.8	32.0	-13.3	-0.7	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5549	16297	11042	2150	793	35831
State Sector	10164	19825	14434	5232	47	49702
Total	15713	36122	25476	7382	840	85533

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	492	1109	415	459	7	2481
Lignite	18	14	24	0	0	55
Hydro	336	21	122	132	30	642
Nuclear	26	33	22	0	0	82
Gas, Naptha & Diesel	19	75	15	0	25	134
RES (Wind, Solar, Biomass & Others)	98	92	115	4	0	309
Total	989	1343	713	595	62	3702

Share of RES in total generation (%)	9.93	6.82	16.08	0.73	0.05	8.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.60	10.84	36.39	22.90	48.56	27.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.078

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: 24-Jul-2020

SI 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	29.3	-29.3	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.6	-9.6	
3	765 kV	GAYA-VARANASI	D/C	0	692	0.0	9.5	-9.5	
4	765 kV	SASARAM-FATEHPUR	S/C	104	90	0.4	0.0	0.4	
5	765 kV	GAYA-BALIA	S/C	0	507	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	279	0.0	5.9	-5.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	172	0.0	3.3	-3.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	841	0.0	15.7	-15.7	
9	400 kV	PATNA-BALIA	Q/C	0	977	0.0	13.9	-13.9	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	400	0.0	7.1	-7.1	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	346	0.0	5.4	-5.4	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	0	210	0.0	2.8	-2.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	118	0.0	2.3	-2.3	
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	0.6	112.8	-112.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1443	0	24.5	0.0	24.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	751	0	9.1	0.0	9.1	
3	765 kV	JHARSUGUDA-DURG	D/C	100	102	0.2	0.0	0.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	69	200	0.0	1.5	-1.5	
5	400 kV	RANCHI-SIPAT	D/C	252	4	3.3	0.0	3.3	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	118	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	106	10	1.4	0.0	1.4	
						ER-WR	38.5	3.1	35.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	696	0.0	14.4	-14.4	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1832	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2802	0.0	53.6	-53.6	
4	400 kV	TALCHER-I/C	D/C	0	178	0.0	2.9	-2.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	116.0	-116.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	19	324	0.0	2.2	-2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	205	306	0.3	0.0	0.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	2	93	0.0	0.9	-0.9	
						ER-NER	0.3	3.1	-2.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	503	0.0	12.5	-12.5	
						NER-NR	0.0	12.5	-12.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	175	0.0	16.6	-16.6	
2	HVDC	VINDHYACHAL B/B	-	362	0	5.0	0.0	5.0	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	981	0.0	20.5	-20.5	
4	765 kV	GWALIOR-AGRA	D/C	0	2461	0.0	36.2	-36.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1247	0.0	20.1	-20.1	
6	765 kV	JABALPUR-ORAI	D/C	0	908	0.0	29.0	-29.0	
7	765 kV	GWALIOR-ORAI	S/C	383	0	7.6	0.0	7.6	
8	765 kV	SATNA-ORAI	S/C	0	1536	0.0	30.0	-30.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1019	0.0	8.3	-8.3	
10	400 kV	ZERDA-KANKROLI	S/C	97	111	0.0	0.1	-0.1	
11	400 kV	ZERDA-BHINMAL	S/C	223	109	1.8	0.0	1.8	
12	400 kV	VINDHYACHAL-RIHAND	S/C	978	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	65	378	0.1	2.7	-2.6	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	116	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	96	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	S/C	65	25	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	38.4	166.5	-128.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.7	-23.7	
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2360	0.0	33.7	-33.7	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2691	0.0	40.5	-40.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	331	142	3.0	0.1	2.9	
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	1	92	1.6	0.0	1.6	
						WR-SR	4.6	98.0	-93.4

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	417	348	354	8.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	773	769	764	18.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	1057	1054	981	23.6
	NER	132KV-SALAKATI - GELEPHU	80	0	57	1.4
	NER	132KV-RANGIA - DEOTHANG	59	0	50	1.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-51	0	-24	-0.6
	ER	132KV-BIHAR - NEPAL	40	-62	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-76	-4	-8	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-939	-936	-937	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-63	-1.5