National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 28th 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., डोंगतिएह, 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 27.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 27th 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:** **28-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)	59884	45341	37479	21692	2607	167003
Peak Shortage (MW)	939	0	0	0	169	1108
Energy Met (MU)	1428	1066	872	468	49	3883
Hydro Gen (MU)	355	25	95	141	28	644
Wind Gen (MU)	22	56	118	-	-	196
Solar Gen (MU)*	40.44	26.30	82.65	4.32	0.03	154
Energy Shortage (MU)	12.8	0.0	0.0	0.0	2.1	14.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64881	46313	41365	21778	2648	168905
Time Of Maximum Demand Met (From NLDC SCADA)	22:21	15:47	11:07	00:01	19:29	22:24

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	0.32	6.61	6.93	84.25	8.82

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	12360	0	278.4	153.7	-0.8	154	0.0
	Haryana	9324	40	202.1	168.3	1.6	325	2.3
	Rajasthan	11697	0	250.7	85.8	1.2	510	0.0
	Delhi	5410	0	112.7	98.5	-0.6	162	0.0
	UP	22853	100	469.1	215.7	1.8	491	0.0
	Uttarakhand	1861	0	41.1	20.9	0.5	123	0.0
	HP	1147	6	23.3	-6.6	-0.8	92	0.0
	J&K(UT) & Ladakh(UT)	2017	504	44.2	19.7	1.5	369	10.6
	Chandigarh	339	0	6.5	6.2	0.4	48	0.0
WR	Chhattisgarh	4439	0	104.6	41.3	0.7	280	0.0
	Gujarat	14249	0	308.3	83.6	2.0	605	0.0
	MP	10109	0	231.4	129.9	0.2	813	0.0
	Maharashtra	17119	0	376.6	129.4	-3.4	484	0.0
	Goa	426	0	8.6	8.4	0.0	43	0.0
	DD	237	0	5.0	4.9	0.1	29	0.0
	DNH	636	0	14.3	14.2	0.1	31	0.0
	AMNSIL	834	0	17.5	7.9	0.1	285	0.0
SR	Andhra Pradesh	7498	0	160.6	53.4	1.8	778	0.0
	Telangana	10677	0	209.4	98.3	1.6	596	0.0
	Karnataka	8340	0	156.9	53.7	-0.9	704	0.0
	Kerala	3199	0	65.4	46.8	0.7	225	0.0
	Tamil Nadu	12571	0	272.2	108.1	-4.0	481	0.0
	Puducherry	373	0	7.7	7.9	-0.2	22	0.0
ER	Bihar	5623	0	115.1	111.3	1.4	400	0.0
	DVC	2807	0	62.8	-37.8	-0.7	450	0.0
	Jharkhand	1402	0	26.6	23.2	-1.9	135	0.0
	Odisha	4191	0	88.4	2.7	-1.4	225	0.0
	West Bengal	8199	0	174.1	52.1	2.0	400	0.0
	Sikkim	85	0	1.1	1.1	0.0	20	0.0
NER	Arunachal Pradesh	105	0	1.9	1.4	0.4	16	0.0
	Assam	1674	137	30.4	25.5	0.3	94	2.0
	Manipur	177	1	2.7	2.5	0.2	12	0.0
	Meghalaya	293	0	5.2	-0.6	0.2	60	0.0
	Mizoram	98	0	1.5	1.3	0.1	37	0.0
	Nagaland	115	1	2.4	2.3	-0.2	11	0.0
	Tripura	269	1	4.8	6.2	0.1	50	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.8	-1.6	-26.1
Day Peak (MW)	2175.0	-228.5	-1107.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	346.7	-301.3	88.3	-127.7	-6.0	0.0
Actual(MU)	350.3	-301.9	79.5	-129.3	-6.3	-7.6
O/D/U/D(MU)	3.7	-0.6	-8.9	-1.5	-0.3	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4669	14837	10912	1545	643	32606
State Sector	8734	20568	15340	5732	47	50421
Total	13403	35405	26252	7277	690	83027

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	578	1141	401	493	7	2621
Lignite	17	15	21	0	0	52
Hydro	355	25	95	141	28	644
Nuclear	26	33	24	0	0	83
Gas, Naptha & Diesel	37	74	14	0	26	151
RES (Wind, Solar, Biomass & Others)	88	95	249	4	0	436
Total	1100	1382	805	639	62	3986
Share of RES in total generation (%)	7.96	6.88	30.90	0.68	0.05	10.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.57	11.07	45.76	22.72	45.56	29.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.082

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: 28-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	1202	0.0	29.1	-29.1
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.3	-9.3
3	765 kV	GAYA-VARANASI	D/C	0	684	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	S/C	134	177	0.6	0.0	0.6
5	765 kV	GAYA-BALIA	S/C	0	507	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	S/C	0	283	0.0	6.2	-6.2
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	170	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	727	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	Q/C	0	814	0.0	14.1	-14.1
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	382	0.0	6.3	-6.3
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	317	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	D/C	11	178	0.0	1.8	-1.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	115	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	0.5	0.0	0.5
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	1.1	111.9	-110.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	419	371	1.2	0.0	1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1160	0	20.0	0.0	20.0
3	765 kV	JHARSUGUDA-DURG	D/C	52	157	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	74	381	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	D/C	400	0	6.2	0.0	6.2
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	106	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	D/C	128	14	1.5	0.0	1.5
					ER-WR	29.0	7.0	22.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	537	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1830	0.0	36.0	-36.0
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2238	0.0	40.1	-40.1
4	400 kV	TALCHER-I/C	D/C	909	166	9.0	0.0	9.0
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	88.6	-88.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	351	0.0	2.8	-2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	192	300	0.4	0.0	0.4
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	109	0.0	1.2	-1.2
					ER-NER	0.4	4.0	-3.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	503	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1759	0.0	63.7	-63.7
2	HVDC	VINDHYACHAL B/B	-	229	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1916	0.0	45.3	-45.3
4	765 kV	GWALIOR-AGRA	D/C	0	2717	0.0	51.5	-51.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1147	0.0	22.3	-22.3
6	765 kV	JABALPUR-ORAI	D/C	0	1065	0.0	44.1	-44.1
7	765 kV	GWALIOR-ORAI	S/C	429	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	S/C	0	1503	0.0	32.1	-32.1
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1007	0.0	13.5	-13.5
10	400 kV	ZERDA-KANKROLI	S/C	88	108	0.0	0.3	-0.3
11	400 kV	ZERDA -BHINMAL	S/C	68	140	0.0	0.6	-0.6
12	400 kV	VINDHYACHAL -RIHAND	S/C	987	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	0	363	0.0	5.1	-5.1
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	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	S/C	91	0	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	51	26	0.8	0.0	0.8
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	282.3	-243.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	8.6	-8.6
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	713	1732	1.6	15.2	-13.6
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2334	0.0	31.3	-31.3
5	400 kV	KOLHAPUR-KUDGI	D/C	930	0	16.0	0.0	16.0
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	78	1.4	0.0	1.4
					WR-SR	19.0	55.0	-36.0

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	361	0	328	7.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	586	0	577	13.8
	ER	TALA (6 * 170) BINAGURI RECEIPT	1061	956	1062	25.5
	NER	132KV-SALAKATI - GELEPHU	55	0	52	1.3
	NER	132KV-RANGIA - DEOTHANG	65	0	58	1.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-55	0	-32	-0.8
	ER	132KV-BIHAR - NEPAL	-83	77	-17	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-90	2	-16	-0.4
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-941	-940	-941	-22.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-74	-1.8