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: 31st 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 30.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **31-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)	56176	45160	37223	22249	2671	163479
Peak Shortage (MW)	467	0	0	0	6	473
Energy Met (MU)	1274	1083	870	450	49	3725
Hydro Gen (MU)	345	25	90	143	31	634
Wind Gen (MU)	15	20	100	-	-	135
Solar Gen (MU)*	37.53	18.70	75.04	4.27	0.03	136
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.0	9.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59568	47407	41220	22051	2687	164359
Time Of Maximum Demand Met (From NLDC SCADA)	22:30	10:27	10:20	20:19	19:16	20:00

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	0.035	0.00	0.59	4.55	5.14	79.06	15.80

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	10283	0	230.1	132.3	-1.7	68	0.0
	Haryana	8109	0	170.0	143.2	-0.4	369	0.0
	Rajasthan	12380	0	260.7	101.1	0.1	466	0.0
	Delhi	4908	0	101.7	89.7	-0.6	204	0.0
	UP	21121	0	399.3	186.7	0.9	435	0.0
	Uttarakhand	1771	0	37.7	19.6	0.5	183	0.0
	HP	1316	0	30.1	-4.0	-1.1	80	0.0
	J&K(UT) & Ladakh(UT)	2001	500	39.0	16.3	0.3	449	9.3
	Chandigarh	259	0	5.5	5.6	-0.1	20	0.0
WR	Chhattisgarh	4569	0	108.1	41.4	0.6	202	0.0
	Gujarat	14752	0	322.8	103.4	0.2	388	0.0
	MP	9833	0	219.0	124.9	-1.7	355	0.0
	Maharashtra	17594	0	386.9	149.0	-1.6	709	0.0
	Goa	406	0	8.7	8.7	-0.3	35	0.0
	DD	257	0	5.5	5.4	0.1	20	0.0
	DNH	649	0	14.7	14.6	0.1	37	0.0
	AMNSIL	756	0	16.8	6.4	-0.3	266	0.0
SR	Andhra Pradesh	7960	0	167.1	79.3	-0.7	522	0.0
	Telangana	10588	0	208.3	95.8	-0.3	424	0.0
	Karnataka	8364	0	161.2	73.0	-0.2	743	0.0
	Kerala	2977	0	59.7	44.0	0.7	178	0.0
	Tamil Nadu	12242	0	266.1	81.9	-3.4	472	0.0
	Puducherry	357	0	7.3	7.4	-0.1	44	0.0
ER	Bihar	5242	0	103.2	99.1	-2.6	127	0.0
	DVC	2967	0	63.4	-28.5	0.2	328	0.0
	Jharkhand	1464	0	27.6	20.2	-1.6	126	0.0
	Odisha	4462	0	89.7	1.5	-0.3	404	0.0
	West Bengal	8304	0	164.9	50.6	1.3	569	0.0
	Sikkim	79	0	1.0	1.1	-0.1	14	0.0
NER	Arunachal Pradesh	95	2	1.7	1.5	0.2	24	0.0
	Assam	1703	10	30.2	26.4	0.2	127	0.0
	Manipur	190	1	2.7	2.5	0.2	29	0.0
	Meghalaya	288	0	5.2	0.0	-0.3	40	0.0
	Mizoram	92	1	1.7	1.2	0.2	13	0.0
	Nagaland	125	2	2.5	2.4	-0.1	6	0.0
	Tripura	278	1	4.8	5.9	-0.1	51	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.1	-0.9	-25.8
Day Peak (MW)	2110.0	-218.0	-1089.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	287.0	-264.6	103.2	-119.1	-6.5	0.0
Actual(MU)	279.5	-246.5	101.6	-128.3	-7.2	-0.9
O/D/U/D(MU)	-7.5	18.0	-1.6	-9.2	-0.7	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4606	13877	11622	1545	707	32356
State Sector	9244	19990	13790	5362	47	48433
Total	13850	33867	25412	6907	753	80789

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	521	1128	403	478	7	2535
Lignite	19	14	17	0	0	50
Hydro	345	25	90	143	31	635
Nuclear	21	33	24	0	0	78
Gas, Naptha & Diesel	33	106	12	0	24	175
RES (Wind, Solar, Biomass & Others)	74	49	229	4	0	356
Total	1014	1354	774	625	61	3829
Share of RES in total generation (%)	7.30	3.60	29.59	0.70	0.05	9.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.46	7.89	44.31	23.62	50.30	27.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.088

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: 31-Jul-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1801	0.0	43.6	-43.6
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.9	-9.9
3	765 kV	GAYA-VARANASI	2	0	532	0.0	6.2	-6.2
4	765 kV	SASARAM-FATEHPUR	1	192	177	4.5	0.0	4.5
5	765 kV	GAYA-BALIA	1	0	459	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	292	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	470	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	4	0	738	0.0	12.3	-12.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	287	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	312	0.0	5.1	-5.1
12	400 kV	BIHARSHARIFF-VARANASI	2	104	66	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI	1	0	129	0.0	2.2	-2.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	5.1	108.4	-103.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	799	0	10.4	0.0	10.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1291	0	21.3	0.0	21.3
3	765 kV	JHARSUGUDA-DURG	2	216	201	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	341	0.0	4.4	-4.4
5	400 kV	RANCHI-SIPAT	2	400	0	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	54	113	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	134	0	1.9	0.0	1.9
					ER-WR	40.1	6.6	33.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1858	0.0	45.0	-45.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2436	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	465	668	0.0	1.1	-1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	102.0	-102.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	520	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	177	354	0.1	0.0	0.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	134	0.0	1.6	-1.6
					ER-NER	0.1	7.9	-7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.3	-17.3
					NER-NR	0.0	17.3	-17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	499	0.0	19.4	-19.4
2	HVDC	VINDHYACHAL B/B	-	0	154	0.0	2.1	-2.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	23.0	-23.0
4	765 kV	GWALIOR-AGRA	2	0	2544	0.0	42.3	-42.3
5	765 kV	PHAGI-GWALIOR	2	0	1357	0.0	23.5	-23.5
6	765 kV	JABALPUR-ORAI	2	0	1057	0.0	37.1	-37.1
7	765 kV	GWALIOR-ORAI	1	440	0	7.9	0.0	7.9
8	765 kV	SATNA-ORAI	1	0	1482	0.0	30.0	-30.0
9	765 kV	CHITORGARH-BANASKANTHA	2	171	1170	0.2	12.7	-12.6
10	400 kV	ZERDA-KANKROLI	1	72	175	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	41	305	0.0	2.8	-2.8
12	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	0	491	0.0	3.3	-3.3
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	77	0.0	1.3	-1.3
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	83	5	1.4	0.0	1.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	33.1	199.7	-166.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	9.9	-9.9
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	195	1451	0.1	15.9	-15.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2157	0.0	33.6	-33.6
5	400 kV	KOLHAPUR-KUDGI	2	771	0	12.3	0.0	12.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	85	1.4	0.0	1.4
					WR-SR	13.8	59.4	-45.6

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	584	575	581	14.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1066	1057	1066	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	393	0	329	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-70	-51	-57	-1.4
	NER	132kV Motanga-Rangia	-71	-34	-52	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	52	-84	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	108	-69	-13	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-942	-940	-941	-22.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	74	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-67	-1.6