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: 30th 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 29.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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: 30-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)	58369	45148	36164	21427	2679	163787
Peak Shortage (MW)	498	0	0	0	8	506
Energy Met (MU)	1390	1072	860	436	51	3810
Hydro Gen (MU)	348	23	87	139	31	628
Wind Gen (MU)	45	57	93	-	-	195
Solar Gen (MU)*	38.60	19.10	60.39	4.38	0.02	122
Energy Shortage (MU)	10.2	0.0	0.0	0.0	0.0	10.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63677	46294	41307	21536	2691	166224
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:52	09:46	21:35	18:58	11:22

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	0.021	0.00	0.00	2.15	2.15	83.13	14.72

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	12991	0	291.2	148.0	-1.5	108	0.0
	Haryana	9751	0	211.4	179.3	0.2	394	0.0
	Rajasthan	12648	0	273.8	88.8	2.8	545	0.0
	Delhi	5938	0	111.9	100.4	-2.3	141	0.0
	UP	20284	0	388.7	188.1	-0.4	434	0.5
	Uttarakhand	1731	0	37.8	20.9	-0.8	102	0.0
	HP	1323	0	28.8	-3.6	-0.8	105	0.0
	J&K(UT) & Ladakh(UT)	2130	533	40.5	17.7	-0.2	120	9.7
	Chandigarh	327	0	6.2	6.3	-0.2	34	0.0
WR	Chhattisgarh	4404	0	101.9	42.4	-0.3	280	0.0
	Gujarat	14785	0	323.9	93.5	2.3	630	0.0
	MP	9535	0	215.5	132.1	-1.6	406	0.0
	Maharashtra	17792	0	384.8	148.2	-0.9	675	0.0
	Goa	437	0	8.9	8.8	-0.2	57	0.0
	DD	254	0	5.4	5.4	0.1	23	0.0
	DNH	645	0	14.6	14.6	0.0	31	0.0
	AMNSIL	852	0	17.3	4.8	0.4	252	0.0
SR	Andhra Pradesh	7954	0	163.5	83.3	2.0	1001	0.0
	Telangana	10098	0	197.2	98.1	-2.3	475	0.0
	Karnataka	8672	0	163.9	76.8	2.2	590	0.0
	Kerala	2631	0	60.3	45.7	1.1	186	0.0
	Tamil Nadu	12037	0	268.2	93.4	-5.6	390	0.0
	Puducherry	348	0	7.2	7.5	-0.3	22	0.0
ER	Bihar	5504	0	105.4	104.3	-1.3	750	0.0
	DVC	2852	0	61.6	-35.7	-1.2	241	0.0
	Jharkhand	1420	0	27.7	21.5	-0.6	235	0.0
	Odisha	4408	0	88.3	1.1	-0.9	344	0.0
	West Bengal	7992	0	152.5	44.7	0.3	447	0.0
	Sikkim	81	0	1.0	1.1	-0.2	19	0.0
NER	Arunachal Pradesh	98	1	3.0	1.6	1.4	22	0.0
	Assam	1779	30	31.9	28.0	0.2	114	0.0
	Manipur	197	1	2.6	2.5	0.1	30	0.0
	Meghalaya	289	0	5.2	0.0	-0.2	30	0.0
	Mizoram	95	2	1.7	1.3	0.2	12	0.0
	Nagaland	115	2	2.4	2.2	-0.1	16	0.0
	Tripura	268	1	4.5	5.7	-0.3	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.3	-0.5	-25.6
Day Peak (MW)	2141.0	-132.0	-1112.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	327.6	-303.1	120.0	-139.4	-5.1	0.0
Actual(MU)	324.3	-297.0	119.1	-148.6	-5.4	-7.5
O/D/U/D(MU)	-3.3	6.2	-0.8	-9.2	-0.4	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5012	13877	11122	1545	707	32262
State Sector	8074	19771	14380	5362	47	47634
Total	13086	33648	25502	6907	753	79896

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	559	1145	412	481	7	2603
Lignite	17	16	18	0	0	51
Hydro	348	23	87	139	31	628
Nuclear	26	33	24	0	0	83
Gas, Naptha & Diesel	38	78	12	0	24	152
RES (Wind, Solar, Biomass & Others)	103	97	201	4	0	406
Total	1091	1391	754	625	61	3923

Share of RES in total generation (%)	9.46	6.99	26.64	0.71	0.03	10.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.75	10.98	41.36	22.98	50.51	28.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.099

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: 30-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	37.6	-37.6
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.1	-9.1
3	765 kV	GAYA-VARANASI	2	0	607	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	195	74	1.1	0.0	1.1
5	765 kV	GAYA-BALIA	1	0	454	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	295	0.0	6.2	-6.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	167	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	543	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	797	0.0	14.0	-14.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	331	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	312	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	95	147	0.0	0.9	-0.9
13	220 kV	PUSAULI-SAHUPURI	1	0	117	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	0.5	0.0	0.5
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	1.7	109.6	-107.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	765	8	8.2	0.0	8.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1347	0	16.9	0.0	16.9
3	765 kV	JHARSUGUDA-DURG	2	167	256	0.0	2.0	-2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	291	0.0	4.7	-4.7
5	400 kV	RANCHI-SIPAT	2	412	0	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	109	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	128	0	1.8	0.0	1.8
					ER-WR	31.5	8.3	23.2
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	1838	0.0	46.9	-46.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2811	0.0	46.2	-46.2
4	400 kV	TALCHER-I/C	2	54	487	0.0	2.6	-2.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	105.5	-105.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	527	0.0	6.0	-6.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	371	0.0	1.4	-1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	145	0.0	1.9	-1.9
					ER-NER	0.0	9.2	-9.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1251	0.0	38.4	-38.4
2	HVDC	VINDHYACHAL B/B	-	0	154	0.0	3.7	-3.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	31.8	-31.8
4	765 kV	GWALIOR-AGRA	2	0	2677	0.0	47.4	-47.4
5	765 kV	PHAGI-GWALIOR	2	0	1402	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	1085	0.0	39.7	-39.7
7	765 kV	GWALIOR-ORAI	1	407	0	8.2	0.0	8.2
8	765 kV	SATNA-ORAI	1	0	1517	0.0	32.4	-32.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1279	0.0	18.4	-18.4
10	400 kV	ZERDA-KANKROLI	1	92	175	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	232	261	0.7	0.0	0.7
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	35	485	0.0	4.2	-4.2
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	0	102	0.0	1.5	-1.5
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	79	13	1.3	0.0	1.3
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	33.5	245.4	-212.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	813	0.0	14.9	-14.9
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	0	2068	0.0	19.8	-19.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2753	0.0	35.8	-35.8
5	400 kV	KOLHAPUR-KUDGI	2	715	0	10.0	0.0	10.0
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	71	1.4	0.0	1.4
					WR-SR	11.4	70.4	-59.0

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)	585	0	566	13.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1058	1047	1056	25.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	361	0	326	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	69	46	-64	-1.5
	NER	132kV Motanga-Rangia	68	0	-41	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-78	0	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-54	-2	-13	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-950	-943	-947	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-61	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-61	-1.5