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: 14th June 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 13.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जून-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 13th June 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: 14-Jun-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)	54843	39433	35547	19896	2603	152322
Peak Shortage (MW)	476	0	0	0	8	484
Energy Met (MU)	1304	940	835	420	50	3548
Hydro Gen (MU)	357	36	71	124	22	610
Wind Gen (MU)	22	37	169	-	-	227
Solar Gen (MU)*	31.31	19.70	61.69	4.66	0.02	117
Energy Shortage (MU)	10.4	0.0	0.0	0.0	0.0	10.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60937	41229	37095	20472	2657	157791
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	15:33	10:10	21:32	19:03	22:17

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	0.029	0.00	0.00	1.20	1.20	77.38	21.42

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	11000	0	238.7	144.0	-1.1	220	0.0
	Haryana	8017	0	165.6	123.6	-0.6	388	0.0
	Rajasthan	10980	0	241.3	86.0	-0.1	622	0.0
	Delhi	5500	0	103.9	90.3	-4.9	119	0.0
	UP	21832	0	438.0	227.3	1.5	1258	0.2
	Uttarakhand	1811	0	40.0	19.5	0.4	204	0.0
	HP	1361	0	27.7	-1.2	-0.7	75	0.0
	J&K(UT) & Ladakh(UT)	2152	538	42.9	19.9	-0.1	132	10.2
	Chandigarh	281	0	5.6	5.8	-0.2	33	0.0
WR	Chhattisgarh	3325	0	74.3	24.1	-2.2	221	0.0
	Gujarat	13018	0	273.4	87.4	2.4	567	0.0
	MP	7939	0	183.2	110.6	-2.1	471	0.0
	Maharashtra	16598	0	366.4	153.1	-0.7	754	0.0
	Goa	411	0	8.0	7.9	-0.1	46	0.0
	DD	244	0	5.4	5.2	0.2	28	0.0
	DNH	528	0	11.8	11.8	0.0	0	0.0
	AMNSIL	778	0	17.4	5.5	0.3	336	0.0
SR	Andhra Pradesh	7283	0	150.4	30.8	0.4	501	0.0
	Telangana	6631	0	144.7	77.2	1.5	437	0.0
	Karnataka	9073	0	169.9	52.1	1.0	567	0.0
	Kerala	3012	0	62.7	43.6	0.5	234	0.0
	Tamil Nadu	13551	0	299.3	132.5	1.6	814	0.0
	Puducherry	363	0	7.7	7.9	-0.2	22	0.0
ER	Bihar	5639	0	105.6	100.9	1.1	582	0.0
	DVC	2833	0	59.9	-34.0	1.1	444	0.0
	Jharkhand	1259	0	25.1	18.1	-1.7	104	0.0
	Odisha	3851	0	82.0	10.8	1.3	446	0.0
	West Bengal	7242	0	146.2	44.9	1.3	470	0.0
	Sikkim	87	0	1.2	1.3	-0.1	33	0.0
NER	Arunachal Pradesh	120	1	2.1	2.2	-0.1	37	0.0
	Assam	1637	15	32.0	25.9	1.4	141	0.0
	Manipur	182	2	2.6	2.4	0.3	34	0.0
	Meghalaya	344	1	5.6	0.4	0.1	50	0.0
	Mizoram	98	0	1.5	1.3	0.0	33	0.0
	Nagaland	131	0	2.2	2.2	-0.3	24	0.0
	Tripura	257	3	3.9	5.3	-0.9	38	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.3	-1.2	-22.3
Day Peak (MW)	1748.9	-201.7	-1101.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	288.9	-272.2	83.2	-99.1	-0.6	0.1
Actual(MU)	280.0	-269.0	82.8	-93.0	-3.3	-2.5
O/D/U/D(MU)	-8.9	3.2	-0.3	6.1	-2.7	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4425	15007	12082	2620	344	34477
State Sector	9820	23101	15208	5842	11	53982
Total	14245	38108	27290	8462	355	88459

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	502	1003	313	419	9	2246
Lignite	26	13	36	0	0	76
Hydro	357	36	71	124	22	610
Nuclear	27	36	47	0	0	110
Gas, Naptha & Diesel	56	71	16	0	27	171
RES (Wind, Solar, Biomass & Others)	73	64	278	5	0	420
Total	1042	1224	760	548	59	3633

Share of RES in total generation (%)	7.04	5.23	36.50	0.86	0.03	11.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.88	11.12	52.00	23.54	37.65	31.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.073

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: 14-Jun-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	-	0	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.6	-9.6
3	765 kV	GAYA-VARANASI	D/C	130	443	0.0	6.0	-6.0
4	765 kV	SASARAM-FATEHPUR	S/C	35	0	1.6	0.0	1.6
5	765 kV	GAYA-BALIA	S/C	0	419	0.0	5.5	-5.5
6	400 kV	PUSAULI-VARANASI	S/C	0	341	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	158	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	750	0.0	13.2	-13.2
9	400 kV	PATNA-BALIA	Q/C	0	979	0.0	16.1	-16.1
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	337	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	322	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	D/C	163	159	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	73	0.0	1.5	-1.5
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	2.0	85.3	-83.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1212	0	15.6	0.0	15.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	998	170	11.8	0.0	11.8
3	765 kV	JHARSUGUDA-DURG	D/C	198	119	0.5	0.0	0.5
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	221	4	2.5	0.0	2.5
5	400 kV	RANCHI-SIPAT	D/C	450	0	7.0	0.0	7.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	85	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	D/C	185	0	3.2	0.0	3.2
					ER-WR	40.7	1.1	39.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	436	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1259	0.0	32.4	-32.4
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2310	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	D/C	411	251	3.7	0.0	3.7
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	82.5	-82.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	326	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	491	0.0	5.7	-5.7
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	111	0.0	1.5	-1.5
					ER-NER	0.0	10.3	-10.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1755	0.0	69.5	-69.5
2	HVDC	V'CHAL B/B	D/C	50	154	1.2	0.2	1.0
3	HVDC	APL -MHG	D/C	0	1455	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	D/C	0	2528	0.0	38.0	-38.0
5	765 kV	PHAGI-GWALIOR	D/C	0	1220	0.0	20.4	-20.4
6	765 kV	JABALPUR-ORAI	D/C	0	888	0.0	27.8	-27.8
7	765 kV	GWALIOR-ORAI	S/C	422	0	7.1	0.0	7.1
8	765 kV	SATNA-ORAI	S/C	0	1507	0.0	29.9	-29.9
9	765 kV	CHITORGARH-BANASKANTHA	D/C	307	766	0.0	2.1	-2.1
10	400 kV	ZERDA-KANKROLI	S/C	180	60	1.7	0.0	1.7
11	400 kV	ZERDA -BHINMAL	S/C	333	130	2.9	0.0	2.9
12	400 kV	V'CHAL -RIHAND	S/C	962	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	D/C	79	418	0.0	1.4	-1.4
14	220 kV	BHANPURA-RANPUR	S/C	36	59	1.0	3.1	-2.2
15	220 kV	BHANPURA-MORAK	S/C	0	72	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	S/C	165	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.0	0.0
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	36.1	228.5	-192.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.2	-12.2
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
4	765 kV	SOLAPUR-RAICHUR	D/C	684	1667	1.6	13.9	-12.3
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1904	0.0	25.4	-25.4
6	400 kV	KOLHAPUR-KUDGI	D/C	863	0	11.7	0.0	11.7
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	81	1.5	0.0	1.5
					WR-SR	14.8	51.4	-36.6

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	257	228	215	5.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	584	582	556	13.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	752	624	725	17.4
	NER	132KV-SALAKATI - GELEPHU	0	0	30	0.7
	NER	132KV-RANGIA - DEOTHANG	0	0	60	1.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-25	0	-11	-0.3
	ER	132KV-BIHAR - NEPAL	-49	-3	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-128	-6	-31	-0.7
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-959	-555	-810	-19.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	71	0	-60	-1.4