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: 19th Jun 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 18.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th Jun 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: 19-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)	60897	40169	37354	19869	2520	160809
Peak Shortage (MW)	485	0	0	0	263	748
Energy Met (MU)	1438	950	881	415	47	3731
Hydro Gen (MU)	369	52	72	125	23	640
Wind Gen (MU)	63	103	164	-	-	330
Solar Gen (MU)*	37.31	22.90	62.90	4.50	0.01	128
Energy Shortage (MU)	10.8	0.0	0.0	0.0	6.1	16.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65705	40620	39948	20179	2604	163186
Time Of Maximum Demand Met (From NLDC SCADA)	22:28	12:13	12:00	21:53	18:51	22:27

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	0.024	0.00	0.00	1.61	1.61	77.47	20.92

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	12403	0	282.1	150.6	-1.7	155	0.0
	Haryana	9309	0	207.5	144.2	-0.3	326	0.0
	Rajasthan	12479	0	278.2	79.9	0.0	492	0.0
	Delhi	6028	0	120.5	99.0	-0.7	324	0.0
	UP	21702	0	427.3	215.1	1.4	1282	0.0
	Uttarakhand	1865	0	41.6	20.3	1.3	227	0.0
	HP	1375	0	28.4	-1.0	-0.2	50	0.0
	J&K(UT) & Ladakh(UT)	2157	539	45.5	20.9	1.5	72	10.8
	Chandigarh	358	0	6.9	6.8	0.1	28	0.0
WR	Chhattisgarh	3329	0	76.1	27.4	-1.6	201	0.0
	Gujarat	14394	0	304.4	100.8	0.6	710	0.0
	MP	7529	0	171.7	92.1	-1.6	764	0.0
	Maharashtra	16087	0	353.9	134.0	-1.8	398	0.0
	Goa	417	0	8.5	8.3	-0.2	49	0.0
	DD	234	0	5.0	5.0	0.0	15	0.0
	DNH	548	0	12.3	12.2	0.1	139	0.0
	AMNSIL	815	0	17.8	6.3	0.0	239	0.0
SR	Andhra Pradesh	7821	0	166.1	42.2	0.6	495	0.0
	Telangana	6923	0	143.0	82.0	0.6	573	0.0
	Karnataka	9175	0	176.4	55.0	-0.3	486	0.0
	Kerala	3170	0	64.5	45.2	0.4	192	0.0
	Tamil Nadu	14395	0	322.8	137.9	-2.2	553	0.0
	Puducherry	399	0	8.3	8.5	-0.2	31	0.0
ER	Bihar	5070	0	98.3	92.5	0.5	657	0.0
	DVC	3250	0	60.0	-30.5	0.7	529	0.0
	Jharkhand	1447	0	23.8	19.7	-0.8	226	0.0
	Odisha	3936	0	82.2	4.1	0.7	348	0.0
	West Bengal	7437	0	150.0	45.8	1.6	476	0.0
	Sikkim	94	0	1.1	1.2	-0.2	34	0.0
NER	Arunachal Pradesh	106	0	2.0	1.9	0.1	29	0.0
	Assam	1642	187	29.2	24.6	0.1	126	6.0
	Manipur	179	1	2.5	2.5	0.1	21	0.0
	Meghalaya	302	0	5.3	0.7	-0.2	66	0.0
	Mizoram	93	0	1.7	1.3	0.1	20	0.0
	Nagaland	123	0	2.3	2.2	-0.2	18	0.0
	Tripura	276	3	3.8	4.8	-0.9	29	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.8	-1.8	-25.4
Day Peak (MW)	2061.0	-193.8	-1106.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	310.3	-306.5	92.8	-95.5	-1.1	0.0
Actual(MU)	311.9	-325.1	103.4	-85.4	-6.4	-1.6
O/D/U/D(MU)	1.6	-18.6	10.7	10.0	-5.3	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4342	14209	10212	2120	377	31260
State Sector	8000	24716	13383	4392	11	50502
Total	12342	38925	23595	6512	388	81762

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	564	963	323	413	10	2273
Lignite	26	12	44	0	0	82
Hydro	369	52	72	125	23	640
Nuclear	26	36	47	0	0	109
Gas, Naptha & Diesel	49	83	16	0	26	173
RES (Wind, Solar, Biomass & Others)	121	137	268	5	0	531
Total	1155	1283	771	542	59	3810

Share of RES in total generation (%)	10.47	10.66	34.83	0.84	0.02	13.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.65	17.56	50.23	23.81	39.52	33.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.084

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: 19-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	1002	0.0	24.2	-24.2
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	D/C	42	384	0.0	4.8	-4.8
4	765 kV	SASARAM-FATEHPUR	S/C	231	33	1.8	0.0	1.8
5	765 kV	GAYA-BALIA	S/C	0	421	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	S/C	0	308	0.0	6.8	-6.8
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	146	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	611	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	O/C	0	1042	0.0	16.0	-16.0
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	394	0.0	5.6	-5.6
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	311	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	D/C	142	73	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	98	0.0	1.9	-1.9
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	2.8	93.7	-90.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1069	0	16.0	0.0	16.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1138	0	17.3	0.0	17.3
3	765 kV	JHARSUGUDA-DURG	D/C	174	61	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	192	80	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	D/C	479	0	8.0	0.0	8.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	21	72	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	D/C	184	0	3.3	0.0	3.3
					ER-WR	47.5	0.9	46.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	300	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1276	0.0	30.4	-30.4
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2316	0.0	40.3	-40.3
4	400 kV	TALCHER-I/C	D/C	892	510	8.1	0.0	8.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	8	0.0	0.0	0.0
					ER-SR	0.0	78.1	-78.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	334	0.0	4.3	-4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	61	339	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	102	0.0	1.3	-1.3
					ER-NER	0.0	8.8	-8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2004	0.0	66.7	-66.7
2	HVDC	V'CHAL B/B	D/C	0	204	0.0	1.7	-1.7
3	HVDC	APL -MHG	D/C	0	1451	0.0	25.4	-25.4
4	765 kV	GWALIOR-AGRA	D/C	0	2634	0.0	47.6	-47.6
5	765 kV	PHAGI-GWALIOR	D/C	0	1073	0.0	18.8	-18.8
6	765 kV	JABALPUR-ORAI	D/C	0	967	0.0	33.5	-33.5
7	765 kV	GWALIOR-ORAI	S/C	474	0	8.2	0.0	8.2
8	765 kV	SATNA-ORAI	S/C	0	1632	0.0	33.5	-33.5
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1159	0.0	15.0	-15.0
10	400 kV	ZERDA-KANKROLI	S/C	105	114	0.0	0.2	-0.2
11	400 kV	ZERDA -BHINMAL	S/C	266	0	4.1	0.0	4.1
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	142	383	0.0	4.5	-4.5
14	220 kV	BHANPURA-RANPUR	S/C	27	38	2.2	3.6	-1.4
15	220 kV	BHANPURA-MORAK	S/C	0	137	0.0	2.2	-2.2
16	220 kV	MEHGAON-AURAIYA	S/C	181	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	37.0	252.5	-215.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	12.3	-12.3
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	360	2331	0.2	28.2	-28.0
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2317	0.0	32.4	-32.4
6	400 kV	KOLHAPUR-KUDGI	D/C	766	0	8.3	0.0	8.3
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	80	1.4	0.0	1.4
					WR-SR	9.9	72.9	-63.0

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	289	288	261	6.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	583	568	565	13.6
	ER	TALA (6 * 170) BINAGURI RECEIPT	1008	1001	1048	25.2
	NER	132KV-SALAKATI - GELEPHU	0	0	52	1.2
	NER	132KV-RANGIA - DEOTHANG	0	0	49	1.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-28	-6	-14	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-166	-2	-61	-1.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-960	-946	-948	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-56	-1.3