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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 13th 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 12.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	56139	39031	35294	20077	2575	153116
Peak Shortage (MW)	520	0	0	0	18	538
Energy Met (MU)	1322	968	804	429	49	3572
Hydro Gen (MU)	354	39	59	116	17	585
Wind Gen (MU)	21	44	172	-	-	236
Solar Gen (MU)*	39.09	21.70	50.81	4.81	0.02	116
Energy Shortage (MU)	10.5	0.0	0.0	0.0	0.1	10.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62289	46489	36469	20824	2631	158025
Time Of Maximum Demand Met (From NLDC SCADA)	22:17	15:19	09:47	00:29	19:28	22:16

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	0.15	3.28	3.43	81.55	15.02

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	10577	0	236.6	144.7	-1.1	281	0.0
	Haryana	8083	0	173.9	125.5	1.3	544	0.0
	Rajasthan	11539	69	243.7	93.3	1.5	1214	0.0
	Delhi	5558	0	113.1	96.7	-2.8	173	0.1
	UP	22110	0	434.7	229.9	-0.3	1451	0.0
	Uttarakhand	1870	0	41.3	21.0	0.4	118	0.0
	HP	1368	0	28.5	-0.3	-0.3	54	0.0
	J&K(UT) & Ladakh(UT)	2193	548	43.9	19.8	1.1	22	10.5
	Chandigarh	327	0	6.1	5.8	0.4	43	0.0
WR	Chhattisgarh	3228	0	73.8	27.2	-4.1	233	0.0
	Gujarat	14118	0	288.0	71.2	2.7	696	0.0
	MP	8198	0	187.9	104.8	-1.8	687	0.0
	Maharashtra	17156	0	374.9	144.6	1.0	773	0.0
	Goa	399	0	8.6	8.4	-0.2	48	0.0
	DD	251	0	5.4	5.2	0.2	26	0.0
	DNH	528	0	11.7	11.8	-0.1	142	0.0
	AMNSIL	827	0	18.0	3.4	0.3	302	0.0
SR	Andhra Pradesh	6365	0	140.7	31.4	-0.8	494	0.0
	Telangana	6310	0	137.3	75.3	0.5	484	0.0
	Karnataka	8826	0	165.3	59.1	-1.3	622	0.0
	Kerala	3186	0	64.3	44.9	0.1	140	0.0
	Tamil Nadu	13097	0	289.0	126.4	-1.5	943	0.0
	Puducherry	356	0	7.6	7.9	-0.4	21	0.0
ER	Bihar	5569	0	113.0	106.7	0.1	341	0.0
	DVC	2828	0	61.5	-33.6	0.6	314	0.0
	Jharkhand	1349	0	24.8	18.3	-2.1	186	0.0
	Odisha	3935	0	82.1	6.9	0.2	346	0.0
	West Bengal	7397	0	146.0	40.4	-0.7	456	0.0
	Sikkim	91	0	1.3	1.4	-0.1	19	0.0
NER	Arunachal Pradesh	107	1	2.1	1.6	0.5	23	0.0
	Assam	1652	2	31.7	26.7	0.2	109	0.0
	Manipur	164	1	2.5	2.2	0.3	64	0.0
	Meghalaya	337	0	5.3	1.1	-0.4	51	0.0
	Mizoram	94	1	1.7	1.4	0.1	19	0.0
	Nagaland	112	1	2.3	2.1	0.1	25	0.0
	Tripura	272	2	3.6	4.9	-1.0	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	35.9	-2.2	-19.3
Day Peak (MW)	1795.0	-223.6	-1110.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	303.2	-288.1	80.7	-101.2	5.4	0.0
Actual(MU)	298.7	-286.2	72.6	-97.8	2.2	-10.5
O/D/U/D(MU)	-4.5	1.9	-8.1	3.4	-3.3	-10.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4925	16637	11122	3280	344	36307
State Sector	9160	23911	15208	5042	11	53332
Total	14085	40548	26330	8322	355	89639

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	495	1022	316	439	10	2283
Lignite	27	13	43	0	0	83
Hydro	354	39	60	116	17	585
Nuclear	26	36	45	0	0	107
Gas, Naptha & Diesel	57	85	16	0	26	183
RES (Wind, Solar, Biomass & Others)	79	77	263	5	0	424
Total	1038	1272	742	560	53	3665
Share of RES in total generation (%)	7.65	6.01	35.43	0.86	0.04	11.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.20	11.94	49.50	21.64	31.87	30.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.078

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: 13-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	12.3	-12.3
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.9	-9.9
3	765 kV	GAYA-VARANASI	D/C	0	424	0.0	6.0	-6.0
4	765 kV	SASARAM-FATEHPUR	S/C	35	0	2.0	0.0	2.0
5	765 kV	GAYA-BALIA	S/C	0	429	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	S/C	0	316	0.0	7.0	-7.0
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	148	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	667	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	Q/C	0	927	0.0	16.3	-16.3
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	317	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	327	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	D/C	106	117	0.0	0.0	0.0
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	2.4	85.6	-83.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1092	170	12.3	0.0	12.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1123	0	15.3	0.0	15.3
3	765 kV	JHARSUGUDA-DURG	D/C	153	125	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	211	190	0.0	0.1	-0.1
5	400 kV	RANCHI-SIPAT	D/C	451	0	7.4	0.0	7.4
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	69	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	D/C	169	0	2.8	0.0	2.8
					ER-WR	38.0	0.1	37.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	485	0.0	9.8	-9.8
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1639	0.0	37.7	-37.7
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2224	0.0	38.2	-38.2
4	400 kV	TALCHER-I/C	D/C	420	419	5.1	0.0	5.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	85.8	-85.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	367	0.0	6.1	-6.1
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	549	0.0	9.7	-9.7
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	111	0.0	2.1	-2.1
					ER-NER	0.0	17.8	-17.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	705	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2000	0.0	61.8	-61.8
2	HVDC	V'CHAL B/B	D/C	50	305	0.0	1.6	-1.6
3	HVDC	APL -MHG	D/C	0	1918	0.0	40.7	-40.7
4	765 kV	GWALIOR-AGRA	D/C	0	2703	0.0	49.7	-49.7
5	765 kV	PHAGI-GWALIOR	D/C	0	1251	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	D/C	0	974	0.0	34.4	-34.4
7	765 kV	GWALIOR-ORAI	S/C	418	0	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	S/C	0	1504	0.0	31.5	-31.5
9	765 kV	CHITORGARH-BANASKANTHA	D/C	241	693	0.5	5.8	-5.3
10	400 kV	ZERDA-KANKROLI	S/C	119	70	0.9	0.0	0.9
11	400 kV	ZERDA -BHINMAL	S/C	281	38	2.0	0.0	2.0
12	400 kV	V'CHAL -RIHAND	S/C	967	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	142	377	0.0	3.9	-3.9
14	220 kV	BHANPURA-RANPUR	S/C	14	79	1.8	3.6	-1.7
15	220 kV	BHANPURA-MORAK	S/C	0	127	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	S/C	181	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	3.6	0.0	3.6
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	40.7	257.8	-217.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	15.2	-15.2
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	988	1461	3.4	10.8	-7.4
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1681	0.0	24.5	-24.5
6	400 kV	KOLHAPUR-KUDGI	D/C	1110	0	14.8	0.0	14.8
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	85	1.5	0.0	1.5
					WR-SR	19.7	50.4	-30.8

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	232	167	168	4.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	584	581	557	13.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	823	693	636	15.3
	NER	132KV-SALAKATI - GELEPHU	0	0	19	0.5
	NER	132KV-RANGIA - DEOTHANG	0	0	48	1.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-106	-26	-59	-1.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-118	-8	-34	-0.8
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-504	-678	-16.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	76	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	76	0	-63	-1.5