



National Load Despatch Centre  
राष्ट्रीय भार प्रेषण केंद्र  
POWER SYSTEM OPERATION CORPORATION LIMITED  
पावर 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: 18<sup>th</sup> Jun 2020

To,

1. कार्यकारी निदेशक, पू. क्षेत्र. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षेत्र. 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. क्षेत्र. 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. क्षेत्र. भा. प्रे. के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक, द. क्षेत्र. 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 17.06.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-जून-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध 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 17<sup>th</sup> 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: 18-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)	59720	39605	36829	20129	2576	158859
Peak Shortage (MW)	501	0	0	0	187	688
Energy Met (MU)	1412	936	882	413	50	3694
Hydro Gen (MU)	367	58	80	128	19	651
Wind Gen (MU)	55	90	167	-	-	311
Solar Gen (MU)*	41.50	20.20	58.18	4.65	0.02	125
Energy Shortage (MU)	10.9	0.0	0.0	0.00	2.6	13.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64463	39993	40738	20090	2581	162421
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	14:24	10:59	21:02	19:34	22:24

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	3.29	3.29	82.28	14.43

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	12253	0	278.0	150.9	-2.3	112	0.0
	Haryana	9036	0	199.2	140.3	0.8	297	0.0
	Rajasthan	12496	0	270.4	83.2	-1.3	515	0.0
	Delhi	5981	0	120.2	98.2	0.0	407	0.0
	UP	21565	0	424.3	208.6	0.3	478	0.0
	Uttarakhand	1808	0	40.0	19.8	0.3	83	0.0
	HP	1405	0	27.9	-1.2	-0.3	43	0.0
	J&K(UT) & Ladakh(UT)	2199	550	45.6	21.2	1.4	67	10.9
WR	Chandigarh	347	0	6.7	6.6	0.1	38	0.0
	Chhattisgarh	3187	0	72.6	22.6	-0.6	349	0.0
	Gujarat	13753	0	293.0	90.0	2.1	476	0.0
	MP	7515	0	170.8	88.3	-3.0	391	0.0
	Maharashtra	16103	0	356.0	143.2	-0.2	570	0.0
	Goa	405	0	8.3	8.1	-0.2	74	0.0
	DD	245	0	5.3	5.2	0.1	22	0.0
SR	DNH	534	0	12.1	12.1	0.0	8	0.0
	AMNSIL	880	0	18.0	7.0	-0.2	247	0.0
	Andhra Pradesh	7762	0	165.0	43.3	-1.9	470	0.0
	Telangana	6808	0	142.5	85.4	0.8	578	0.0
	Karnataka	9136	0	174.3	52.3	-1.0	594	0.0
	Kerala	2993	0	65.7	46.2	0.1	141	0.0
	Tamil Nadu	14814	0	326.3	132.7	-2.9	496	0.0
ER	Puducherry	397	0	8.4	8.7	-0.3	18	0.0
	Bihar	5129	0	99.0	94.7	-1.4	285	0.0
	DVC	2910	0	60.1	-28.8	0.2	350	0.0
	Jharkhand	1309	0	24.2	21.0	-1.7	110	0.0
	Odisha	3840	0	78.7	8.7	-0.5	324	0.0
	West Bengal	7152	0	149.5	46.9	1.3	357	0.0
	Sikkim	96	0	1.4	1.5	-0.1	15	0.0
NER	Arunachal Pradesh	103	0	2.1	1.7	0.4	24	0.0
	Assam	1667	137	32.7	27.1	0.5	104	2.6
	Manipur	175	3	2.4	2.4	0.1	14	0.0
	Meghalaya	286	0	5.2	0.7	0.0	57	0.0
	Mizoram	96	0	1.6	1.2	0.2	13	0.0
	Nagaland	112	0	2.3	2.2	-0.2	12	0.0
	Tripura	278	3	4.2	5.4	-0.6	39	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.4	-1.8	-26.0
Day Peak (MW)	2131.8	-218.5	-1106.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	305.6	-312.6	95.0	-88.8	0.8	0.0
Actual(MU)	300.8	-330.5	103.0	-79.6	-0.2	-6.4
O/D/U/D(MU)	-4.8	-17.9	8.0	9.2	-1.0	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4342	14603	11082	3145	407	33579
State Sector	8250	24966	13383	4992	11	51602
Total	12592	39569	24465	8137	418	85181

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	551	961	342	404	10	2269
Lignite	26	12	40	0	0	79
Hvdro	367	58	80	128	19	651
Nuclear	26	36	47	0	0	110
Gas, Naptha & Diesel	48	80	17	0	28	173
RES (Wind, Solar, Biomass & Others)	117	123	269	5	0	513
Total	1136	1271	794	537	57	3794
Share of RES in total generation (%)	10.28	9.69	33.82	0.88	0.04	13.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.93	17.11	49.75	24.69	32.94	33.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.076

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: 18-Jun-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	-	0	1501	0.0	28.1	-28.1	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.9	-9.9	
3	765 kV	GAYA-VARANASI	D/C	147	420	0.0	2.2	-2.2	
4	765 kV	SASARAM-FATEHPUR	S/C	243	0	3.0	0.0	3.0	
5	765 kV	GAYA-BALIA	S/C	0	398	0.0	5.7	-5.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	326	0.0	7.1	-7.1	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	137	0.0	2.5	-2.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	602	0.0	10.6	-10.6	
9	400 kV	PATNA-BALIA	Q/C	0	900	0.0	16.0	-16.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	277	0.0	3.8	-3.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	316	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	223	28	2.2	0.0	2.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	99	0.0	2.0	-2.0	
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	5.4	92.8	-87.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1243	0	22.2	0.0	22.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1285	0	21.1	0.0	21.1	
3	765 kV	JHARSUGUDA-DURG	D/C	229	0	2.9	0.0	2.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	411	0	4.7	0.0	4.7	
5	400 kV	RANCHI-SIPAT	D/C	474	0	9.8	0.0	9.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	31	64	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	D/C	237	0	3.9	0.0	3.9	
						ER-WR	64.6	0.5	64.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	301	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1656	0.0	45.3	-45.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2090	0.0	36.7	-36.7	
4	400 kV	TALCHER-I/C	D/C	392	979	0.0	8.0	-8.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	89.4	-89.4
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	418	0.0	5.9	-5.9	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	48	449	0.0	4.7	-4.7	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	118	0.0	1.6	-1.6	
						ER-NER	0.0	12.1	-12.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	14.3	-14.3	
						NER-NR	0.0	14.3	-14.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2003	0.0	52.3	-52.3	
2	HVDC	V'CHAL B/B	D/C	0	305	0.0	2.6	-2.6	
3	HVDC	APL -MHG	D/C	0	1915	0.0	30.8	-30.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2802	0.0	49.0	-49.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1255	0.0	20.2	-20.2	
6	765 kV	JABALPUR-ORAI	D/C	0	1009	0.0	35.8	-35.8	
7	765 kV	GWALIOR-ORAI	S/C	474	0	6.5	0.0	6.5	
8	765 kV	SAJINA-ORAI	S/C	0	1534	0.0	30.8	-30.8	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1170	0.0	17.6	-17.6	
10	400 kV	ZERDA-KANKROLI	S/C	78	123	0.0	0.6	-0.6	
11	400 kV	ZERDA-BHINMAL	S/C	278	25	3.3	0.0	3.3	
12	400 kV	V'CHAL -RIHAND	S/C	967	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUJALPUR	D/C	3	452	0.0	4.6	-4.6	
14	220 kV	BHANPURA-RANPUR	S/C	40	58	2.0	3.7	-1.7	
15	220 kV	BHANPURA-MORAK	S/C	0	123	0.0	2.0	-2.0	
16	220 kV	MEHGAON-AURAIYA	S/C	175	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	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	33.9	249.9	-216.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	6.5	-6.5	
2	HVDC	BARSUR-I-SILERRU	-	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	355	1879	0.3	21.8	-21.4	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2172	0.0	32.3	-32.3	
6	400 kV	KOLHAPUR-KUDGI	D/C	759	0	9.0	0.0	9.0	
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	84	1.6	0.0	1.6	
						WR-SR	11.0	60.6	-49.6

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	276	265	233	5.6
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	586	583	582	14.0
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1009	996	1033	24.8
	NER	132KV-SALAKATI - GELEPHU	0	0	40	1.0
	NER	132KV-RANGIA - DEOTHANG	0	0	44	1.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-31	0	-7	-0.2
	ER	132KV-BIHAR - NEPAL	-30	-1	-14	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-158	-8	-53	-1.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-950	-954	-22.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	74	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	74	0	-65	-1.6