



**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: 20<sup>th</sup> 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., डोंगतिह, 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 19.06.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19<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: 20-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)	56475	40565	37857	21310	2695	158902
Peak Shortage (MW)	441	0	0	0	7	448
Energy Met (MU)	1425	964	895	432	51	3767
Hydro Gen (MU)	366	55	82	129	27	658
Wind Gen (MU)	64	129	150	-	-	344
Solar Gen (MU)*	39.49	23.80	67.56	4.54	0.03	135
Energy Shortage (MU)	11.5	0.0	0.0	0.0	0.0	11.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64713	41405	40688	21118	2736	164641
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:48	14:54	21:16	19:03	22:28

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	0.026	0.00	0.32	2.60	2.93	78.76	18.31

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	12393	0	262.3	146.6	-6.4	351	0.0
	Haryana	9722	0	211.9	145.0	1.3	214	0.0
	Rajasthan	12572	0	280.3	77.9	-1.2	294	0.0
	Delhi	6236	0	126.0	103.7	0.3	413	0.0
	UP	21494	0	429.2	218.3	0.7	349	1.0
	Uttarakhand	1805	0	40.9	20.3	0.2	126	0.0
	HP	1348	0	27.4	-1.3	-0.5	205	0.0
	J&K(UT) & Ladakh(UT)	2158	539	40.9	20.4	-0.6	298	10.5
	Chandigarh	314	0	6.2	6.4	-0.2	17	0.0
	Chhattisgarh	3408	0	80.7	26.9	0.0	440	0.0
WR	Gujarat	14660	0	313.9	91.5	2.4	645	0.0
	MP	7511	0	169.1	92.3	-2.3	706	0.0
	Maharashtra	16146	0	356.7	140.2	-1.2	885	0.0
	Goa	521	0	9.7	9.3	0.0	127	0.0
	DD	204	0	4.6	4.5	0.1	16	0.0
	DNH	546	0	12.4	12.4	0.0	42	0.0
	AMNSIL	771	0	17.2	6.1	-0.2	230	0.0
SR	Andhra Pradesh	7562	0	169.9	43.7	0.4	569	0.0
	Telangana	7213	0	149.3	80.1	2.3	537	0.0
	Karnataka	9844	0	184.4	58.7	2.0	885	0.0
	Kerala	3028	0	64.2	45.4	0.4	138	0.0
	Tamil Nadu	14089	0	318.6	133.3	-0.8	714	0.0
	Puducherry	401	0	8.4	8.6	-0.2	37	0.0
ER	Bihar	5032	0	95.3	90.5	-0.3	307	0.0
	DVC	2714	0	60.0	-29.2	0.7	280	0.0
	Jharkhand	1407	0	26.1	19.3	-1.5	128	0.0
	Odisha	4456	0	93.1	13.5	-0.4	591	0.0
	West Bengal	7932	0	156.4	52.5	3.0	557	0.0
NER	Sikkim	89	0	1.3	1.4	-0.2	10	0.0
	Arunachal Pradesh	116	1	2.3	2.2	0.0	36	0.0
	Assam	1668	10	31.6	27.1	0.2	158	0.0
	Manipur	180	1	2.8	2.5	0.3	40	0.0
	Meghalaya	361	0	5.6	0.8	-0.3	30	0.0
	Mizoram	95	1	1.7	1.4	0.0	37	0.0
	Nagaland	129	1	2.4	2.2	0.0	22	0.0
	Tripura	279	2	4.5	5.3	-0.7	38	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.4	-2.0	-23.2
Day Peak (MW)	2175.7	-204.5	-1113.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	312.1	-304.9	92.0	-96.1	-3.2	0.0
Actual(MU)	297.5	-317.1	113.3	-92.9	-7.0	-6.3
O/D/U/D(MU)	-14.7	-12.2	21.3	3.2	-3.9	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4342	15444	10122	2120	377	32405
State Sector	7800	26101	13343	5202	11	52457
Total	12142	41545	23465	7322	388	84862

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	560	936	340	419	10	2264
Lignite	27	12	46	0	0	85
Hvdro	366	55	82	129	27	658
Nuclear	26	36	47	0	0	110
Gas, Naptha & Diesel	49	76	16	0	25	167
RES (Wind, Solar, Biomass & Others)	123	172	260	5	0	559
Total	1150	1288	791	552	62	3843
Share of RES in total generation (%)	10.65	13.37	32.91	0.82	0.05	14.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.70	20.50	49.20	24.12	43.15	34.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
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: 20-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	1002	0.0	24.0	-24.0
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.8	-9.8
3	765 kV	GAYA-VARANASI	D/C	155	395	0.0	4.2	-4.2
4	765 kV	SASARAM-FATEHPUR	S/C	277	92	2.1	0.0	-2.1
5	765 kV	GAYA-BALIA	S/C	0	434	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	S/C	0	338	0.0	7.0	-7.0
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	150	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	712	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	Q/C	0	1108	0.0	18.5	-18.5
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	411	0.0	6.5	-6.5
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	311	0.0	4.6	-4.6
12	400 kV	BIHARSHARIFF-VARANASI	D/C	245	144	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	109	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	0.4	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						3.2	97.5	-94.3
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1453	0	21.4	0.0	21.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	990	195	13.0	0.0	13.0
3	765 kV	JHARSUGUDA-DURG	D/C	225	102	1.4	0.0	1.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	255	69	3.2	0.0	3.2
5	400 kV	RANCHI-SIPAT	D/C	451	0	7.4	0.0	7.4
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	124	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	D/C	171	0	2.9	0.0	2.9
ER-WR						49.1	1.4	47.7
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	1231	407	0.0	8.0	-8.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1479	0.0	32.9	-32.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2584	0.0	41.4	-41.4
4	400 kV	TALCHER-I/C	D/C	910	502	3.4	0.0	3.4
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	82.3	-82.3
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	447	0.0	4.1	-4.1
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	160	495	0.0	2.6	-2.6
3	220 kV	ALIPURDUAR-SALAKATI	D/C	7	110	0.0	1.0	-1.0
ER-NER						0.0	7.8	-7.8
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	17.1	-17.1
NER-NR						0.0	17.1	-17.1
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2002	0.0	62.3	-62.3
2	HVDC	V'CHAL B/B	D/C	0	155	0.0	3.7	-3.7
3	HVDC	APL -MHG	D/C	0	1640	0.0	31.6	-31.6
4	765 kV	GWALIOR-AGRA	D/C	0	2622	0.0	44.5	-44.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1204	0.0	15.7	-15.7
6	765 kV	JABALPUR-ORAI	D/C	0	905	0.0	26.0	-26.0
7	765 kV	GWALIOR-ORAI	S/C	311	0	5.2	0.0	5.2
8	765 kV	SAINA-ORAI	S/C	0	1658	0.0	31.6	-31.6
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1062	0.0	16.5	-16.5
10	400 kV	ZERDA-KANKROLI	S/C	114	82	0.0	0.0	0.0
11	400 kV	ZERDA-BHINMAL	S/C	298	0	4.1	0.0	4.1
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	88	355	0.0	1.2	-1.2
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	S/C	0	114	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	S/C	178	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	3.5	0.0	3.5
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						35.3	236.3	-201.0
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	417	0.0	9.8	-9.8
2	HVDC	BARSUR-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	777	2784	0.6	29.7	-29.1
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2615	0.0	36.6	-36.6
6	400 kV	KOLHAPUR-KUDGI	D/C	959	269	7.7	0.8	7.0
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	1	75	0.7	0.0	0.7
WR-SR						9.1	76.9	-67.8

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	306	250	263	6.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	584	579	570	13.7
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1005	987	1034	24.8
	NER	132KV-SALAKATI - GELEPHU	0	0	43	1.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-30	0	-12	-0.3
	ER	132KV-BIHAR - NEPAL	-36	-3	-11	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-138	0	-60	-1.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-963	-512	-849	-20.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-59	-1.4