



**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: 22<sup>nd</sup> 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., डोंगतिह, लोअर नोंग्रह, लापालंग, 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 21.06.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<sup>st</sup> 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: 22-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)	53929	39211	34679	19987	2688	150494
Peak Shortage (MW)	420	0	0	0	3	423
Energy Met (MU)	1270	949	861	418	50	3549
Hydro Gen (MU)	358	55	71	132	22	637
Wind Gen (MU)	32	104	166	-	-	301
Solar Gen (MU)*	33.32	21.60	60.47	4.59	0.03	120
Energy Shortage (MU)	10.8	0.0	0.0	0.0	0.3	11.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60742	40835	38836	20629	2723	157575
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:58	14:03	00:01	19:24	00:02

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	0.072	0.00	0.00	0.75	0.75	55.97	43.28

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	11902	0	264.4	149.6	-2.4	28	0.0
	Haryana	8493	0	175.1	127.1	0.3	283	0.0
	Rajasthan	11219	0	248.1	85.8	-0.7	613	0.0
	Delhi	5214	0	97.9	80.4	-1.3	211	0.0
	UP	20088	0	373.7	186.6	0.3	589	0.0
	Uttarakhand	1683	0	34.0	14.7	-0.7	351	0.2
	HP	1267	0	27.0	-2.9	0.1	129	0.0
	J&K(UT) & Ladakh(UT)	2041	510	44.7	22.1	-0.4	223	10.6
WR	Chandigarh	286	0	5.0	5.5	-0.6	14	0.0
	Chhattisgarh	2977	0	72.2	22.4	-1.0	207	0.0
	Gujarat	13325	0	296.1	100.7	3.0	639	0.0
	MP	7750	0	172.8	95.4	-1.9	304	0.0
	Maharashtra	16396	0	367.4	148.1	1.5	849	0.0
	Goa	410	0	8.2	7.9	-0.1	87	0.0
	DD	193	0	3.5	3.4	0.1	23	0.0
	DNH	517	0	12.1	12.1	0.0	36	0.0
SR	AMNSIL	792	0	17.0	6.7	-0.3	280	0.0
	Andhra Pradesh	7767	0	170.4	43.8	1.0	367	0.0
	Telangana	7210	0	149.4	92.8	1.9	740	0.0
	Karnataka	9886	0	183.3	62.0	1.9	637	0.0
	Kerala	2689	0	57.7	41.3	0.5	230	0.0
	Tamil Nadu	13111	0	293.1	117.9	-3.0	564	0.0
	Puducherry	351	0	7.3	7.6	-0.3	33	0.0
	ER	Bihar	5175	0	99.4	94.9	-0.5	347
DVC		2814	0	59.2	-34.3	0.8	292	0.0
Jharkhand		1327	0	24.3	18.0	-2.0	138	0.0
Odisha		4004	0	85.5	10.5	0.9	262	0.0
West Bengal		7751	0	148.9	46.8	2.2	474	0.0
NER	Sikkim	78	0	0.9	1.1	-0.2	19	0.0
	Arunachal Pradesh	119	1	2.1	2.0	0.1	29	0.0
	Assam	1700	14	31.7	26.3	0.8	140	0.3
	Manipur	178	1	2.6	2.3	0.3	27	0.0
	Meghalaya	368	0	5.6	0.4	-0.1	59	0.0
	Mizoram	88	0	1.5	1.5	0.0	14	0.0
	Nagaland	127	0	2.2	2.1	-0.2	14	0.0
Tripura	267	3	4.8	5.3	-0.3	45	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.7	-1.8	-25.1
Day Peak (MW)	2014.2	-181.2	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.6	-268.2	100.5	-98.9	-5.9	0.0
Actual(MU)	246.2	-257.5	101.5	-82.8	-4.8	2.5
O/D/U/D(MU)	-26.4	10.7	1.0	16.1	1.1	2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4552	15529	10622	2120	344	33166
State Sector	8780	26410	13913	5172	11	54286
Total	13332	41939	24535	7292	355	87452

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	499	916	323	398	10	2146
Lignite	25	13	40	0	0	78
Hydro	358	55	71	132	22	637
Nuclear	30	36	47	0	0	113
Gas, Naptha & Diesel	43	76	16	0	29	163
RES (Wind, Solar, Biomass & Others)	85	132	270	5	0	491
Total	1040	1228	767	534	61	3630

Share of RES in total generation (%)	8.20	10.71	35.22	0.86	0.05	13.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.52	18.12	50.57	25.48	36.24	34.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
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: 22-Jun-2020

SI 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	1001	0.0	24.1	-24.1	
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	138	550	0.0	4.5	-4.5	
4	765 kV	SASARAM-FATEHPUR	S/C	214	0	2.4	0.0	2.4	
5	765 kV	GAYA-BALIA	S/C	59	441	0.0	4.5	-4.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	300	0.0	6.5	-6.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	155	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	685	0.0	10.3	-10.3	
9	400 kV	PATNA-BALIA	Q/C	0	1056	0.0	15.8	-15.8	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	346	0.0	4.0	-4.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	319	0.0	4.4	-4.4	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	91	117	0.0	0.2	-0.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	84	0.0	1.6	-1.6	
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	2.7	88.4	-85.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1286	0	20.6	0.0	20.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	819	0	13.2	0.0	13.2	
3	765 kV	JHARSUGUDA-DURG	D/C	129	41	1.2	0.0	1.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	187	36	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	D/C	356	0	7.6	0.0	7.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	120	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	D/C	130	0	2.1	0.0	2.1	
						ER-WR	46.5	1.7	44.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	410	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1472	0.0	27.2	-27.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2199	0.0	40.1	-40.1	
4	400 kV	TALCHER-I/C	D/C	870	513	6.0	0.0	6.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	77.3	-77.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	302	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	158	277	0.0	1.3	-1.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	94	0.0	1.2	-1.2	
						ER-NER	0.0	5.6	-5.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1250	0.0	38.0	-38.0	
2	HVDC	V'CHAL B/B	D/C	47	0	1.3	0.0	1.3	
3	HVDC	APL -MHG	D/C	0	1454	0.0	27.8	-27.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2449	0.0	38.5	-38.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1175	0.0	18.4	-18.4	
6	765 kV	JABALPUR-ORAI	D/C	0	1000	0.0	29.1	-29.1	
7	765 kV	GWALIOR-ORAI	S/C	452	0	7.8	0.0	7.8	
8	765 kV	SATNA-ORAI	S/C	0	1558	0.0	28.1	-28.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	132	924	0.0	5.1	-5.1	
10	400 kV	ZERDA-KANKROLI	S/C	122	143	0.4	0.0	0.4	
11	400 kV	ZERDA -BHINMAL	S/C	257	217	0.9	0.0	0.9	
12	400 kV	V'CHAL -RIHAND	S/C	974	0	20.7	0.0	20.7	
13	400 kV	RAPP-SHUJALPUR	D/C	18	445	0.0	2.4	-2.4	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.6	-1.6	
15	220 kV	BHANPURA-MORAK	S/C	0	108	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	S/C	175	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	3.7	0.0	3.7	
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	34.7	191.0	-156.3
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	17.1	-17.1	
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	386	1668	0.3	18.7	-18.5	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2175	0.0	31.1	-31.1	
6	400 kV	KOLHAPUR-KUDGI	D/C	756	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	1	85	1.5	0.0	1.5	
						WR-SR	10.1	66.9	-56.8
<b>INTERNATIONAL EXCHANGES</b>									
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	267	248	245	5.9			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	585	582	576	13.8			
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1007	995	1043	25.0			
	NER	132KV-SALAKATI - GELEPHU	0	0	45	1.1			
	NER	132KV-RANGIA - DEOTHANG	0	0	38	0.9			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-19	0	-9	-0.2			
	ER	132KV-BIHAR - NEPAL	-16	-1	-15	-0.4			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-146	-2	-52	-1.3			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-964	-742	-929	-22.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-75	-1.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-43	-1.0			