



**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: 31<sup>th</sup> Mar 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., डोंगतेह, 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 30.03.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 30-मार्च-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 30<sup>th</sup> Mar 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: 31-Mar-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 1900 hrs; from RLDCs)	28926	31988	35562	16249	2169	114894
Peak Shortage (MW)	401	0	0	0	54	455
Energy Met (MU)	610	791	902	326	36	2665
Hydro Gen (MU)	165	36	82	50	6	339
Wind Gen (MU)	20	42	38	-	-	99
Solar Gen (MU)*	44.65	28.80	95.76	4.70	0.04	174
Energy Shortage (MU)	9.8	0.0	0.0	0.0	1.2	11.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	32466	35844	43001	16183	2249	120790
Time Of Maximum Demand Met (From NLDC SCADA)	19:47	07:40	10:25	19:51	18:22	09:31

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	0.062	0.00	3.88	10.38	14.26	71.18	14.56

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	3141	0	62.7	47.1	-0.7	122	0.0
	Haryana	3687	0	68.1	61.4	0.8	209	0.0
	Rajasthan	7888	0	141.4	42.8	-3.8	617	0.0
	Delhi	2292	0	43.1	32.4	-1.6	67	0.0
	UP	13370	215	220.8	100.7	-4.7	1210	0.0
	Uttarakhand	1040	0	17.3	0.9	1.6	222	0.0
	HP	797	0	12.5	-0.8	-0.1	118	0.0
	J&K(UT) & Ladakh(UT)	1809	319	41.9	33.6	-4.6	190	9.8
	Chandigarh	142	0	2.2	2.4	-0.2	20	0.0
	Chhattisgarh	3169	0	67.8	20.2	-1.3	262	0.0
WR	Gujarat	9800	0	212.0	77.4	2.3	1032	0.0
	MP	8107	0	155.6	88.3	-2.4	532	0.0
	Maharashtra	16137	0	345.2	131.4	-0.2	478	0.0
	Goa	357	0	6.7	7.1	-0.4	54	0.0
	DD	65	0	1.4	1.3	0.1	14	0.0
	DNH	77	0	1.7	1.7	0.0	19	0.0
	Essar steel	3783	0	0.8	0.7	0.1	109	0.0
	Andhra Pradesh	8200	0	162.7	80.5	-0.1	515	0.0
	Telangana	9931	0	203.2	105.5	-0.7	349	0.0
	Karnataka	11002	0	218.2	78.9	-0.5	593	0.0
SR	Kerala	3661	0	69.3	53.5	0.6	233	0.0
	Tamil Nadu	11029	0	244.1	174.7	-0.7	351	0.0
	Puducherry	222	0	4.2	4.8	-0.6	40	0.0
	Bihar	4168	0	69.4	69.7	-2.0	302	0.0
	DVC	1555	0	30.5	-20.7	-0.8	341	0.0
	Jharkhand	1229	0	22.8	14.1	-0.2	176	0.0
	Odisha	3527	0	76.1	1.1	0.3	226	0.0
	West Bengal	6116	0	126.1	35.3	1.1	347	0.0
	Sikkim	101	0	1.2	1.3	-0.1	26	0.0
	NER	Arumachal Pradesh	112	1	2.0	1.5	0.4	27
Assam		1292	38	20.5	17.9	-0.5	61	1.0
Manipur		187	2	2.5	2.2	0.3	21	0.0
Meghalaya		254	0	3.4	3.1	-0.2	34	0.1
Mizoram		94	0	1.6	1.2	0.0	24	0.0
Nagaland		116	2	2.1	2.0	0.0	18	0.0
Tripura		242	1	3.9	3.5	-0.6	30	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.1	-3.9	-13.4
Day Peak (MW)	646.1	-269.9	-862.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	68.5	-165.8	163.1	-71.9	6.2	0.0
Actual(MU)	32.8	-164.6	187.4	-67.9	6.2	-6.1
OD/UD(MU)	-35.6	1.2	24.3	4.0	0.0	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6529	24045	6422	2475	1012	40483
State Sector	21528	26227	13858	7620	11	69244
Total	28057	50272	20280	10095	1023	109727

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	266	731	362	360	7	1727
Lignite	17	12	48	0	0	78
Hvdro	165	36	82	50	6	339
Nuclear	24	36	62	0	0	122
Gas, Naptha & Diesel	27	69	19	0	22	136
RES (Wind, Solar, Biomass & Others)	92	80	140	5	0	316
Total	592	964	713	415	34	2717
Share of RES in total generation (%)	15.50	8.25	19.63	1.14	0.12	11.63
Share of Non-fossil fuel (Hvdro,Nuclear and RES) in total	47.48	15.78	39.80	13.17	16.57	28.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.074
Based on State Max Demands	1.148

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: 31-Mar-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	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	S/C	568	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	258	278	0.3	0.0	0.3	
4	765 kV	SASARAM-FATEHPUR	S/C	241	177	1.8	0.0	1.8	
5	765 kV	GAYABALLIA	S/C	28	311	0.0	3.0	-3.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	245	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	84	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	127	456	0.0	4.0	-4.0	
9	400 kV	PATNA-BALLIA	O/C	18	495	0.0	6.1	-6.1	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	69	212	0.0	2.0	-2.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	222	0.0	2.7	-2.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	292	10	2.5	0.0	2.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	132	0.0	2.3	-2.3	
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	5.1	32.2	-27.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1521	0	26.1	0.0	26.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	568	415	2.7	0.0	2.7	
3	765 kV	JHARSUGUDA-DURG	D/C	32	197	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	92	194	0.0	1.9	-1.9	
5	400 kV	RANCHI-SIPAT	D/C	217	127	1.4	0.0	1.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	5	108	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	113	0	1.8	0.0	1.8	
						ER-WR	31.9	5.1	26.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	15.7	-15.7	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2473	0.0	41.0	-41.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3006	0.0	56.0	-56.0	
4	400 kV	TALCHER-I/C	D/C	719	1459	0.0	7.1	-7.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	112.7	-112.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	281	75	2.6	0.0	2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	282	85	2.2	0.0	2.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	59	21	0.5	0.0	0.5	
						ER-NER	5.4	0.0	5.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	3.8	-3.8	
2	HVDC	V'CHAL B/B	D/C	452	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	498	0.0	12.2	-12.2	
4	765 kV	GWALIOR-AGRA	D/C	0	1872	0.0	26.8	-26.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1076	0.0	15.5	-15.5	
6	765 kV	JABALPUR-ORAI	D/C	0	602	0.0	14.4	-14.4	
7	765 kV	GWALIOR-ORAI	S/C	599	0	9.2	0.0	9.2	
8	765 kV	SATNA-ORAI	S/C	0	1198	0.0	22.0	-22.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	826	0	9.2	0.0	9.2	
10	400 kV	ZERDA-KANKROLI	S/C	322	0	5.3	0.0	5.3	
11	400 kV	ZERDA -BHINMAL	S/C	560	0	6.8	0.0	6.8	
12	400 kV	V'CHAL -RIHAND	S/C	968	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUALPUR	D/C	289	205	0.8	0.0	0.8	
14	220 kV	BHANPURA-RANPUR	S/C	54	25	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	S/C	0	109	0.0	1.3	-1.3	
16	220 kV	MEHGAON-AURAIYA	S/C	128	0	1.7	0.0	1.7	
17	220 kV	MALANPUR-AURAIYA	S/C	94	0	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	68.3	95.9	-27.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	20.8	-20.8	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	5	2717	0.0	39.0	-39.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3347	0.0	54.7	-54.7	
5	400 kV	KOLHAPUR-KUDGI	D/C	650	223	4.1	0.6	3.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	52	0.0	1.0	-1.0	
8	220 kV	XELDEM-AMBEWADI	S/C	0	58	1.1	0.0	1.1	
						WR-SR	5.2	116.0	-110.9

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	31	0	1	0.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	254	139	172	4.1
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	212	98	159	3.8
	NER	132KV-SALAKATI - GELEPHU	13	0	-7	-0.2
	NER	132KV-RANGIA - DEOTHANG	0	0	10	0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.6
	ER	132KV-BIHAR - NEPAL	-186	0	-52	-1.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-84	-24	-43	-1.0
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-746	-256	-447	-10.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	58	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	58	0	-56	-1.3