



**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: 15<sup>th</sup> Apr 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 14.04.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 14-अप्रैल-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 14<sup>th</sup> Apr 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: 15-Apr-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)	38533	36213	34656	16450	2332	128184
Peak Shortage (MW)	517	0	0	0	33	550
Energy Met (MU)	776	928	856	379	38	2977
Hydro Gen (MU)	181	49	82	56	3	371
Wind Gen (MU)	42	42	40	-	-	125
Solar Gen (MU)*	30.74	27.30	92.86	4.65	0.04	156
Energy Shortage (MU)	10.2	0.0	0.0	0.0	0.6	10.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39355	40797	39179	17410	2340	131683
Time Of Maximum Demand Met (From NLDC SCADA)	19:50	06:47	10:21	23:21	18:34	22:22

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	0.031	0.00	0.38	3.90	4.28	76.85	18.87

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	4301	0	88.1	70.7	-1.9	18	0.0
	Haryana	5171	0	88.5	84.7	0.9	153	0.0
	Rajasthan	8600	0	168.6	49.3	-2.3	398	0.0
	Delhi	3007	0	60.8	49.6	-0.8	80	0.0
	UP	16158	0	290.0	127.0	-1.6	551	0.0
	Uttarakhand	1072	0	21.1	4.8	-0.4	100	0.0
	HP	742	0	12.8	-1.4	-2.7	18	0.0
	J&K(UT) & Ladakh(UT)	2105	526	43.2	31.2	-0.9	116	10.2
	Chandigarh	146	0	2.7	2.8	-0.1	4	0.0
	Chhattisgarh	3281	0	78.9	23.8	-1.4	160	0.0
WR	Gujarat	11714	0	263.5	73.5	3.9	600	0.0
	MP	8952	0	180.8	116.8	-0.7	542	0.0
	Maharashtra	17546	0	392.2	161.8	0.9	514	0.0
	Goa	385	0	7.7	7.8	-0.1	37	0.0
	DD	86	0	1.9	2.0	-0.1	46	0.0
	DNH	109	0	2.4	2.4	0.0	28	0.0
	Essar steel	224	0	0.8	0.6	0.2	139	0.0
SR	Andhra Pradesh	7862	0	160.9	86.6	-0.4	426	0.0
	Telangana	7737	0	167.4	74.8	-0.2	355	0.0
	Karnataka	10877	0	208.4	63.1	0.5	525	0.0
	Kerala	3712	0	70.8	48.5	0.9	313	0.0
	Tamil Nadu	10644	0	243.8	171.1	1.5	480	0.0
	Puducherry	246	0	4.8	5.2	-0.4	58	0.0
ER	Bihar	4687	0	91.6	90.0	0.5	190	0.0
	DVC	1490	0	32.6	-29.6	2.0	230	0.0
	Jharkhand	1174	0	23.5	18.5	0.4	160	0.0
	Odisha	3502	0	78.5	10.2	1.0	320	0.0
	West Bengal	7177	0	151.4	45.3	3.8	485	0.0
NER	Sikkim	93	0	1.2	1.5	-0.3	15	0.0
	Arunachal Pradesh	116	1	1.7	1.2	0.4	33	0.0
	Assam	1406	18	21.3	19.7	-1.3	125	0.4
	Manipur	185	2	2.4	2.3	0.1	16	0.0
	Meghalaya	260	0	4.2	3.5	-0.2	25	0.1
	Mizoram	98	0	1.7	1.4	0.2	28	0.0
	Nagaland	121	1	2.2	2.0	0.1	17	0.0
	Tripura	265	1	4.3	3.7	0.3	40	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.1	-3.6	-15.6
Day Peak (MW)	725.2	-309.2	-1094.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.7	-223.3	147.9	-67.1	-2.1	0.1
Actual(MU)	124.6	-230.2	156.8	-53.4	1.1	-1.1
O/D/U/D(MU)	-20.1	-6.9	9.0	13.7	3.1	-1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6637	20106	8452	2825	399	38418
State Sector	20058	25882	14275	8080	11	68306
Total	26695	45987	22727	10905	410	106724

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	313	892	363	407	10	1985
Lignite	20	10	47	0	0	77
Hydro	181	49	82	56	3	371
Nuclear	23	37	47	0	0	106
Gas, Naptha & Diesel	24	94	20	0	29	167
RES (Wind, Solar, Biomass & Others)	104	81	156	5	0	346
Total	664	1163	714	468	42	3052
Share of RES in total generation (%)	15.69	6.95	21.84	1.01	0.09	11.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.36	14.32	39.84	12.95	7.79	26.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.103

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: 15-Apr-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	0	251	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	174	493	0.0	3.2	-3.2	
4	765 kV	SASARAM-FATEHPUR	S/C	202	139	1.2	0.0	1.2	
5	765 kV	GAYABALLIA	S/C	0	358	0.0	4.6	-4.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	249	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	107	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	150	491	0.0	5.1	-5.1	
9	400 kV	PATNA-BALLIA	Q/C	8	667	0.0	8.6	-8.6	
10	400 kV	BIHARSHARIF-BALLIA	D/C	36	268	0.0	2.6	-2.6	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	254	0.0	4.1	-4.1	
12	400 kV	BIHARSHARIF-VARANASI	D/C	256	155	1.8	0.0	1.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	189	0.0	3.0	-3.0	
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	0.5	0.0	0.5	
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	3.6	42.9	-39.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1152	0	23.8	0.0	23.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	688	348	5.6	0.0	5.6	
3	765 kV	JHARSUGUDA-DURG	D/C	26	31	0.0	1.1	-1.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	276	0.0	3.3	-3.3	
5	400 kV	RANCHI-SIPAT	D/C	238	131	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	143	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	151	0	2.5	0.0	2.5	
						ER-WR	34.3	6.7	27.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1977	0.0	39.3	-39.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2594	0.0	54.1	-54.1	
4	400 kV	TALCHER-I/C	D/C	672	691	3.6	0.0	3.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	101.0	-101.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	329	33	4.1	0.0	4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	452	44	5.3	0.0	5.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	86	17	1.0	0.0	1.0	
						ER-NER	10.3	0.0	10.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	490	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	501	0.0	18.5	-18.5	
2	HVDC	V'CHAL B/B	D/C	0	52	0.0	1.2	-1.2	
3	HVDC	APL -MHG	D/C	0	790	0.0	19.4	-19.4	
4	765 kV	GWALIOR-AGRA	D/C	0	2179	0.0	40.5	-40.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1124	0.0	18.4	-18.4	
6	765 kV	JABALPUR-ORAI	D/C	0	745	0.0	22.3	-22.3	
7	765 kV	GWALIOR-ORAI	S/C	557	0	10.7	0.0	10.7	
8	765 kV	SAJNA-ORAI	S/C	0	1761	0.0	26.4	-26.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	380	631	0.0	2.2	-2.2	
10	400 kV	ZERDA-KANKROLI	S/C	242	48	2.1	0.0	2.1	
11	400 kV	ZERDA -BHINMAL	S/C	512	0	5.9	0.0	5.9	
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUALPUR	D/C	322	120	1.2	0.0	1.2	
14	220 kV	BHANPURA-RANPUR	S/C	47	52	0.0	0.5	-0.5	
15	220 kV	BHANPURA-MORAK	S/C	0	65	0.0	0.9	-0.9	
16	220 kV	MEHGAON-AURAIYA	S/C	116	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	85	2	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	44.2	150.2	-105.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	17.2	-17.2	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	22	2176	0.0	33.4	-33.4	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2521	0.0	43.2	-43.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	142	478	0.2	5.5	-5.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	70	0.0	1.4	-1.4	
8	220 kV	XELDEM-AMBEWADI	S/C	0	66	1.3	0.0	1.3	
						WR-SR	1.5	101.0	-99.5

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	88	31	38	0.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	306	186	185	4.4
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	192	119	121	2.9
	NER	132KV-SALAKATI - GELEPHU	29	0	-15	-0.4
	NER	132KV-RANGIA - DEOTHANG	0	0	8	0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.6
	ER	132KV-BIHAR - NEPAL	-35	-1	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-230	-44	-120	-2.9
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-948	-276	-530	-12.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-60	-1.4