



**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: 14<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 13.04.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13<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: 14-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)	37306	36205	34318	17007	2191	127027
Peak Shortage (MW)	865	0	0	0	27	892
Energy Met (MU)	744	924	844	364	37	2913
Hydro Gen (MU)	171	48	86	51	4	360
Wind Gen (MU)	35	53	29	-	-	117
Solar Gen (MU)*	34.79	28.09	91.43	4.55	0.04	159
Energy Shortage (MU)	10.0	0.0	0.0	0.0	0.6	10.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38421	40684	38742	17136	2273	129235
Time Of Maximum Demand Met (From NLDC SCADA)	19:59	06:57	13:42	22:00	18:37	22:13

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	0.051	0.00	1.16	11.17	12.33	70.49	17.19

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	3856	0	82.0	64.3	-1.8	55	0.0
	Haryana	4751	50	83.4	80.7	0.3	186	0.5
	Rajasthan	8438	0	162.7	46.3	-1.2	496	0.0
	Delhi	2719	0	56.4	45.7	-1.6	53	0.0
	UP	15972	0	282.3	127.5	1.5	419	0.0
	Uttarakhand	1122	0	21.3	6.2	-0.5	196	0.0
	HP	792	0	13.1	0.1	-2.9	43	0.0
	J&K(UT) & Ladakh(UT)	1949	487	40.4	31.0	-3.5	317	9.5
	Chandigarh	138	0	2.6	2.6	0.1	25	0.0
	Chhattisgarh	3314	0	78.3	25.0	-1.4	189	0.0
WR	Gujarat	11417	0	260.7	67.4	4.1	557	0.0
	MP	8966	0	179.9	115.5	-2.3	288	0.0
	Maharashtra	17822	0	391.7	161.1	-0.6	363	0.0
	Goa	382	0	7.7	7.8	0.0	37	0.0
	DD	93	0	2.1	2.1	0.0	10	0.0
	DNH	109	0	2.4	2.3	0.1	42	0.0
	Essar steel	208	0	0.8	0.5	0.3	136	0.0
	Andhra Pradesh	7724	0	158.7	92.6	1.3	402	0.0
SR	Telangana	7751	0	164.6	88.3	-0.8	328	0.0
	Karnataka	10380	0	206.6	65.3	0.8	732	0.0
	Kerala	3743	0	70.8	53.1	0.9	261	0.0
	Tamil Nadu	10669	0	239.1	173.4	0.8	426	0.0
	Puducherry	243	0	4.7	4.9	-0.2	30	0.0
	Bihar	4642	0	88.8	87.0	0.7	285	0.0
ER	DVC	1487	0	30.8	-27.3	1.0	380	0.0
	Jharkhand	1254	0	24.8	17.6	2.3	164	0.0
	Odisha	3515	0	74.8	3.7	0.4	350	0.0
	West Bengal	6902	0	143.3	42.6	0.8	421	0.0
	Sikkim	97	0	1.2	1.4	-0.2	15	0.0
NER	Arunachal Pradesh	115	1	1.6	1.1	0.5	16	0.0
	Assam	1330	30	21.7	18.2	0.5	172	0.5
	Manipur	179	1	2.0	2.2	-0.3	17	0.0
	Meghalaya	260	0	4.2	3.5	0.0	34	0.1
	Mizoram	95	1	1.6	1.4	-0.1	10	0.0
	Nagaland	119	2	2.3	2.0	0.2	30	0.0
	Tripura	251	2	4.0	3.6	-0.2	25	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.7	-3.8	-14.6
Day Peak (MW)	598.9	-257.9	-1092.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	132.8	-220.2	164.4	-76.1	-1.0	-0.1
Actual(MU)	125.3	-218.9	167.3	-70.0	1.3	5.0
O/D/U/D(MU)	-7.5	1.3	2.9	6.1	2.3	5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6577	18706	7702	2325	399	35708
State Sector	21228	25882	15815	8080	11	71016
Total	27805	44587	23517	10405	410	106724

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	301	901	337	407	8	1955
Lignite	22	11	49	0	0	81
Hvdro	171	48	86	51	4	360
Nuclear	23	37	46	0	0	105
Gas, Naptha & Diesel	24	70	20	0	29	143
RES (Wind, Solar, Biomass & Others)	100	94	143	5	0	342
Total	641	1161	680	463	41	2987
Share of RES in total generation (%)	15.67	8.12	20.97	1.00	0.10	11.45
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.91	15.39	40.32	12.08	9.52	27.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.105

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: 14-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	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	161	451	0.0	3.9	-3.9	
4	765 kV	SASARAM-FATEHPUR	S/C	199	151	0.7	0.0	0.7	
5	765 kV	GAYA-BALIA	S/C	0	329	0.0	4.2	-4.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	238	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	119	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	169	527	0.0	4.7	-4.7	
9	400 kV	PATNA-BALIA	O/C	20	684	0.0	8.6	-8.6	
10	400 kV	BIHARSHARIF-BALIA	D/C	38	299	0.0	2.8	-2.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	248	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIF-VARANASI	D/C	262	177	1.6	0.0	1.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	154	0.0	2.7	-2.7	
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	2.8	43.0	-40.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1353	0	23.1	0.0	23.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	664	471	4.6	0.0	4.6	
3	765 kV	JHARSUGUDA-DURG	D/C	64	190	0.0	1.6	-1.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	32696	300	0.0	3.4	-3.4	
5	400 kV	RANCHI-SIPAT	D/C	254	171	1.3	0.0	1.3	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	152	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	140	0	2.2	0.0	2.2	
						ER-WR	31.2	7.6	23.6
<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	1984	0.0	47.6	-47.6	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2998	0.0	57.7	-57.7	
4	400 kV	TALCHER-J/C	D/C	413	887	0.0	4.7	-4.7	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	112.8	-112.8
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	290	0	3.9	0.0	3.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	401	0	5.1	0.0	5.1	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	74	2	0.9	0.0	0.9	
						ER-NER	9.9	0.0	9.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	492	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	11.5	-11.5	
2	HVDC	V'CHAL B/B	D/C	95	52	1.2	0.6	0.6	
3	HVDC	APL -MHG	D/C	0	789	0.0	17.9	-17.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2327	0.0	41.5	-41.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	958	0.0	17.9	-17.9	
6	765 kV	JABALPUR-ORAI	D/C	0	753	0.0	24.1	-24.1	
7	765 kV	GWALIOR-ORAI	S/C	555	0	10.3	0.0	10.3	
8	765 kV	SATNA-ORAI	S/C	0	1287	0.0	26.3	-26.3	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	531	685	0.0	4.3	-4.3	
10	400 kV	ZERDA-KANKROLI	S/C	268	75	1.8	0.0	1.8	
11	400 kV	ZERDA -BHINMAL	S/C	512	4	5.7	0.0	5.7	
12	400 kV	V'CHAL -RIHAND	S/C	968	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	D/C	320	87	2.7	0.0	2.7	
14	220 kV	BHANPURA-RANPUR	S/C	50	50	0.0	0.4	-0.4	
15	220 kV	BHANPURA-MORAK	S/C	1	55	0.0	0.7	-0.7	
16	220 kV	MEHGAON-AURAIYA	S/C	129	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	96	4	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	45.9	145.2	-99.3
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.3	-23.3	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2165	0.0	35.1	-35.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2727	0.0	47.4	-47.4	
5	400 kV	KOLHAPUR-KUDGI	D/C	202	462	0.3	5.7	-5.4	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	68	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	65	1.2	0.0	1.2	
						WR-SR	1.6	112.9	-111.3

**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	64	26	21	0.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	195	149	127	3.0
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	201	116	104	2.5
	NER	132KV-SALAKATI - GELEPHU	16	0	-15	-0.4
NEPAL	NER	132KV-RANGIA - DEOTHANG	12	0	2	0.1
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.6
	ER	132KV-BIHAR - NEPAL	-18	0	-6	-0.1
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	232	88	-126	-3.0
	ER	Bheramara HVDC(Bangladesh)	-960	-273	-501	-12.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-54	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-54	-1.3