



**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: 13<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 12.04.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12<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: 13-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)	36791	35747	32737	16261	2045	123581
Peak Shortage (MW)	512	0	0	0	62	574
Energy Met (MU)	716	909	822	338	34	2819
Hydro Gen (MU)	154	54	87	50	4	348
Wind Gen (MU)	7	47	30	-	-	84
Solar Gen (MU)*	41.95	27.60	88.39	4.53	0.05	163
Energy Shortage (MU)	9.6	0.0	0.0	0.0	1.3	10.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	37592	40532	37397	16834	2116	124869
Time Of Maximum Demand Met (From NLDC SCADA)	19:59	06:59	09:48	20:25	19:18	19:35

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	0.029	0.00	0.23	3.74	3.97	78.04	17.99

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	3719	0	78.2	59.9	-0.6	186	0.0
	Haryana	4642	0	79.7	76.6	0.7	170	0.0
	Rajasthan	8286	0	159.5	63.4	-1.5	300	0.0
	Delhi	2495	0	52.4	42.1	-1.9	40	0.0
	UP	15689	0	271.0	121.5	0.6	832	0.0
	Uttarakhand	1075	0	20.1	6.4	-0.5	26	0.0
	HP	742	0	12.1	0.5	-1.9	49	0.0
	J&K(UT) & Ladakh(UT)	2123	531	40.7	32.3	-2.9	171	9.6
	Chandigarh	133	0	2.4	2.4	0.0	19	0.0
	Chhattisgarh	3277	0	78.2	23.8	-1.4	185	0.0
WR	Gujarat	11154	0	249.5	63.7	2.5	403	0.0
	MP	8904	0	177.2	110.9	-1.8	268	0.0
	Maharashtra	17719	0	392.2	171.5	0.0	594	0.0
	Goa	364	0	7.1	7.2	-0.1	43	0.0
	DD	83	0	1.9	1.9	0.0	23	0.0
	DNH	103	0	2.2	2.2	0.0	119	0.0
	Essar steel	199	0	0.7	0.9	-0.2	125	0.0
	Andhra Pradesh	7540	0	154.9	78.9	0.1	455	0.0
SR	Telangana	7992	0	167.8	87.5	1.4	481	0.0
	Karnataka	9980	0	198.4	61.8	1.3	498	0.0
	Kerala	3618	0	67.9	50.6	0.9	299	0.0
	Tamil Nadu	10220	0	228.2	162.6	1.6	465	0.0
	Puducherry	239	0	4.5	5.0	-0.4	27	0.0
	Bihar	4483	0	82.8	83.8	-2.1	40	0.0
ER	DVC	1477	0	28.9	-25.8	0.0	200	0.0
	Jharkhand	1144	0	22.7	17.7	-0.2	141	0.0
	Odisha	3520	0	72.8	-2.8	0.4	152	0.0
	West Bengal	6795	0	130.3	38.4	-0.9	142	0.0
	Sikkim	82	0	0.9	1.2	-0.3	15	0.0
NER	Arunachal Pradesh	109	1	1.5	1.5	-0.1	6	0.0
	Assam	1252	20	19.2	16.2	0.0	133	0.6
	Manipur	180	1	2.1	2.2	-0.1	12	0.0
	Meghalaya	249	0	3.9	3.5	-0.1	23	0.1
	Mizoram	95	1	1.5	1.3	-0.1	23	0.0
	Nagaland	117	2	2.3	2.0	0.2	16	0.0
	Tripura	213	1	3.1	2.6	-0.1	51	0.5

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.3	-4.1	-12.9
Day Peak (MW)	615.4	-309.2	-1085.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.2	-199.3	140.0	-79.0	-2.0	-0.1
Actual(MU)	134.0	-201.3	149.2	-83.3	-1.9	-3.4
O/D/U/D(MU)	-6.2	-2.0	9.1	-4.3	0.0	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6577	20401	7702	2325	649	37653
State Sector	21228	26050	16105	7420	11	70814
Total	27805	46450	23807	9745	660	108467

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	297	875	331	398	7	1908
Lignite	24	12	50	0	0	86
Hvdro	154	54	87	50	4	348
Nuclear	27	37	51	0	0	114
Gas, Naptha & Diesel	23	55	20	0	28	127
RES (Wind, Solar, Biomass & Others)	78	87	138	5	0	307
Total	603	1120	676	453	39	2890
Share of RES in total generation (%)	13.01	7.74	20.37	1.00	0.13	10.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.97	15.80	40.73	11.99	9.53	26.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.077
Based on State Max Demands	1.121

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: 13-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	6.3	-6.3	
3	765 kV	GAYA-VARANASI	D/C	199	560	0.0	5.6	-5.6	
4	765 kV	SASARAM-FATEHPUR	S/C	130	159	0.0	0.8	-0.8	
5	765 kV	GAYA-BALIA	S/C	0	335	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	230	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	116	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	160	589	0.0	6.3	-6.3	
9	400 kV	PATNA-BALIA	O/C	42	737	0.0	9.6	-9.6	
10	400 kV	BIHARSHARIF-BALIA	D/C	57	329	0.0	3.2	-3.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	251	0.0	3.9	-3.9	
12	400 kV	BIHARSHARIF-VARANASI	D/C	256	193	0.0	0.5	-0.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	170	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	0.5	50.1	-49.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	998	0	14.9	0.0	14.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	534	466	2.2	0.0	2.2	
3	765 kV	JHARSUGUDA-DURG	D/C	0	241	0.0	3.1	-3.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	32614	333	0.0	4.4	-4.4	
5	400 kV	RANCHI-SIPAT	D/C	193	164	0.8	0.0	0.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	163	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	D/C	151	0	2.1	0.0	2.1	
						ER-WR	20.0	10.3	9.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	534	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1980	0.0	40.9	-40.9	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2902	0.0	54.9	-54.9	
4	400 kV	TALCHER-J/C	D/C	417	680	0.0	0.1	-0.1	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.3	-103.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	355	0	4.8	0.0	4.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	484	0	6.6	0.0	6.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	89	0	1.2	0.0	1.2	
						ER-NER	12.6	0.0	12.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	493	0	11.1	0.0	11.1	
						NER-NR	11.1	0.0	11.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	227	0.0	10.6	-10.6	
2	HVDC	V'CHAL B/B	D/C	94	53	1.4	0.1	1.3	
3	HVDC	APL -MHG	D/C	0	692	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2281	0.0	36.9	-36.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	1125	0.0	19.4	-19.4	
6	765 kV	JABALPUR-ORAI	D/C	0	745	0.0	22.1	-22.1	
7	765 kV	GWALIOR-ORAI	S/C	586	0	10.7	0.0	10.7	
8	765 kV	SATNA-ORAI	S/C	0	1266	0.0	24.9	-24.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	469	655	0.0	4.5	-4.5	
10	400 kV	ZERDA-KANKROLI	S/C	210	72	0.9	0.0	0.9	
11	400 kV	ZERDA -BHINMAL	S/C	247	150	1.0	0.0	1.0	
12	400 kV	V'CHAL -RIHAND	S/C	977	0	22.8	0.0	22.8	
13	400 kV	RAPP-SHUJALPUR	D/C	224	153	0.7	0.0	0.7	
14	220 kV	BHANPURA-RANPUR	S/C	47	44	0.0	0.5	-0.5	
15	220 kV	BHANPURA-MORAK	S/C	0	59	0.0	0.9	-0.9	
16	220 kV	MEHGAON-AURAIYA	S/C	109	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	78	0	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	39.7	137.1	-97.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	17.1	-17.1	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	10	2013	0.0	28.2	-28.2	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2723	0.0	47.8	-47.8	
5	400 kV	KOLHAPUR-KUDGI	D/C	257	376	0.0	3.3	-3.3	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	59	0.0	1.2	-1.2	
8	220 kV	XELDEM-AMBEWADI	S/C	0	64	1.2	0.0	1.2	
						WR-SR	1.2	97.6	-96.4

**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	57	22	19	0.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	196	176	167	4.0
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	223	163	163	3.9
	NER	132KV-SALAKATI - GELEPHU	16	0	-10	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	0	0	7	0.2
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.6
	ER	132KV-BIHAR - NEPAL	-34	-2	-13	-0.3
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-234	-100	-130	-3.1
	ER	Bheramara HVDC(Bangladesh)	-961	-222	-451	-10.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	62	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-42	-1.0