



**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: 24<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., डोंगतेह, 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 23.04.2020.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अप्रैल-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 23rd 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: 24-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)	37781	37527	33907	13279	1924	124418
Peak Shortage (MW)	702	0	0	0	166	868
Energy Met (MU)	772	967	859	292	31	2920
Hydro Gen (MU)	171	71	65	56	6	369
Wind Gen (MU)	11	83	35	-	-	129
Solar Gen (MU)*	34.29	27.04	90.62	4.72	0.03	157
Energy Shortage (MU)	12.3	0.0	0.0	0.0	2.1	14.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38530	41613	39085	13708	1922	127363
Time Of Maximum Demand Met (From NLDC SCADA)	19:44	06:35	13:59	00:32	18:42	22:23

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	0.038	0.00	0.84	3.91	4.76	72.37	22.87

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	4472	0	83.7	60.2	-0.2	131	0.0
	Haryana	5147	0	92.4	84.1	0.9	263	0.0
	Rajasthan	8130	0	167.2	62.1	-1.8	303	0.0
	Delhi	2853	0	59.9	50.2	-2.5	0	0.0
	UP	15342	0	284.4	125.0	-1.8	314	1.9
	Uttarakhand	1184	0	23.3	7.7	0.4	140	0.0
	HP	816	0	14.2	-1.0	-0.1	102	0.0
	J&K(UT) & Ladakh(UT)	2247	562	43.9	33.5	-0.3	319	10.4
	Chandigarh	140	0	2.7	2.8	-0.2	18	0.0
	Chhattisgarh	3242	0	75.2	19.1	-1.3	157	0.0
WR	Gujarat	12575	0	278.9	65.4	3.0	528	0.0
	MP	8892	0	186.2	100.1	-1.3	437	0.0
	Maharashtra	18449	0	410.2	154.0	1.3	484	0.0
	Goa	434	0	8.9	9.0	-0.3	47	0.0
	DD	126	0	2.8	2.8	0.0	43	0.0
	DNH	148	0	3.3	3.3	0.0	38	0.0
	AMNSIL	328	0	1.2	1.1	0.2	184	0.0
SR	Andhra Pradesh	8484	0	170.5	92.5	-0.2	463	0.0
	Telangana	6802	0	144.9	60.8	0.5	699	0.0
	Karnataka	10203	0	205.5	64.7	0.0	909	0.0
	Kerala	3584	0	70.6	46.9	0.9	215	0.0
	Tamil Nadu	11219	0	261.7	182.1	-0.6	330	0.0
	Puducherry	287	0	5.7	6.0	-0.3	33	0.0
ER	Bihar	4173	0	75.3	75.7	-1.1	820	0.0
	DVC	1566	0	28.9	-20.1	-0.2	228	0.0
	Jharkhand	1122	0	19.0	16.1	-0.6	205	0.0
	Odisha	2610	0	67.3	-8.9	-0.4	606	0.0
	West Bengal	4300	0	99.8	35.3	0.0	333	0.0
NER	Sikkim	109	0	1.5	1.6	-0.1	15	0.0
	Arunachal Pradesh	103	0	1.3	1.0	0.2	12	0.0
	Assam	1102	79	16.8	13.9	-0.2	135	2.0
	Manipur	163	3	2.1	2.1	0.0	27	0.0
	Meghalaya	251	0	4.1	2.0	-0.2	49	0.1
	Mizoram	92	0	1.4	1.2	0.1	15	0.0
	Nagaland	112	1	1.8	1.7	-0.1	17	0.0
	Tripura	218	37	2.9	1.7	-0.2	67	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.3	-0.5	-13.1
Day Peak (MW)	633.9	-113.5	-644.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.7	-206.1	159.2	-101.6	-2.7	-0.4
Actual(MU)	149.4	-218.6	168.8	-105.4	-2.6	-8.5
O/D/U/D(MU)	-1.3	-12.6	9.6	-3.8	0.1	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7661	21926	7682	1730	1012	40011
State Sector	19783	23784	13018	8142	11	64738
Total	27444	45709	20700	9872	1023	104749

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	322	895	382	358	8	1964
Lignite	20	12	39	0	0	72
Hydro	171	70	65	56	6	369
Nuclear	28	37	51	0	0	115
Gas, Naptha & Diesel	23	46	20	0	22	111
RES (Wind, Solar, Biomass & Others)	76	125	146	5	0	352
Total	640	1185	703	419	36	2983
Share of RES in total generation (%)	11.90	10.54	20.77	1.13	0.08	11.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.91	19.56	37.32	14.60	17.02	28.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.059
Based on State Max Demands	1.107

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: 24-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	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	106	700	0.0	7.8	-7.8	
4	765 kV	SASARAM-FATEHPUR	S/C	217	306	0.0	0.8	-0.8	
5	765 kV	GAYABALLA	S/C	0	367	0.0	6.0	-6.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	214	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	158	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	969	0.0	10.0	-10.0	
9	400 kV	PATNA-BALLA	Q/C	0	862	0.0	12.2	-12.2	
10	400 kV	BIHARSHARIF-BALLA	D/C	0	455	0.0	5.9	-5.9	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	285	0.0	4.4	-4.4	
12	400 kV	BIHARSHARIF-VARANASI	D/C	171	323	0.0	1.4	-1.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	177	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	63.7	-63.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1081	58	9.6	0.0	9.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	502	271	3.8	0.0	3.8	
3	765 kV	JHARSUGUDA-DURG	D/C	0	320	0.0	4.1	-4.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	105	349	0.0	3.5	-3.5	
5	400 kV	RANCHI-SIPAT	D/C	243	170	1.6	0.0	1.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	159	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	163	0	2.1	0.0	2.1	
						ER-WR	17.1	10.3	6.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	459	0.0	6.5	-6.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1588	0.0	32.4	-32.4	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3105	0.0	64.1	-64.1	
4	400 kV	TALCHER-I/C	D/C	454	601	1.1	0.0	1.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.1	-103.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	398	0	5.6	0.0	5.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	533	0	7.3	0.0	7.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	102	0	1.4	0.0	1.4	
						ER-NER	14.3	0.0	14.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	488	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	4.0	-4.0	
2	HVDC	V'CHAL B/B	D/C	447	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1125	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2239	0.0	40.3	-40.3	
5	765 kV	PHAGI-GWALIOR	D/C	0	1087	0.0	16.3	-16.3	
6	765 kV	JABALPUR-ORAI	D/C	0	754	0.0	25.3	-25.3	
7	765 kV	GWALIOR-ORAI	S/C	507	0	9.2	0.0	9.2	
8	765 kV	SAINA-ORAI	S/C	0	1771	0.0	26.1	-26.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	90	673	0.0	5.0	-5.0	
10	400 kV	ZERDA-KANKROLI	S/C	112	59	0.8	0.0	0.8	
11	400 kV	ZERDA-BHINMAL	S/C	175	124	0.3	0.0	0.3	
12	400 kV	V'CHAL -RIHAND	S/C	965	0	17.5	0.0	17.5	
13	400 kV	RAPP-SHUALPUR	D/C	260	177	0.0	0.1	-0.1	
14	220 kV	BHANPURA-RANPUR	S/C	46	63	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	85	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	S/C	99	0	1.0	0.0	1.0	
17	220 kV	MALANPUR-AURAIYA	S/C	66	12	0.5	0.0	0.5	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	41.4	147.5	-106.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.1	-12.1	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	13	2393	0.0	39.5	-39.5	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2644	0.0	48.0	-48.0	
5	400 kV	KOLHAPUR-KUDGI	D/C	137	0	0.4	1.2	-0.8	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	80	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	63	0.0	1.2	-1.2	
						WR-SR	1.6	101.8	-100.2

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	59	26	18	0.4
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	209	205	172	4.1
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	210	144	122	2.9
	NER	132KV-SALAKATI - GELEPHU	27	0	-11	-0.3
	NER	132KV-RANGIA - DEOTHANG	7	0	5	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-2	-2	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-104	-2	-19	-0.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-552	-248	-455	-10.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	46	0	-46	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	46	0	-46	-1.1