



**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: 25<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 24.04.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	39989	37634	33085	14033	1957	126698
Peak Shortage (MW)	561	0	0	0	63	624
Energy Met (MU)	793	973	845	276	30	2917
Hydro Gen (MU)	180	62	57	56	7	361
Wind Gen (MU)	8	97	50	-	-	155
Solar Gen (MU)*	36.60	27.60	83.25	4.68	0.01	152
Energy Shortage (MU)	10.6	0.0	0.0	0.0	4.2	14.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	40465	48109	38564	13957	2006	130027
Time Of Maximum Demand Met (From NLDC SCADA)	20:01	15:12	13:39	20:48	18:47	22:20

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	0.72	3.91	4.63	75.95	19.42

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	4747	0	91.0	66.0	-0.3	147	0.0
	Haryana	5569	0	94.2	84.9	1.8	273	0.0
	Rajasthan	8507	0	170.6	61.9	0.3	493	0.0
	Delhi	3048	0	59.5	50.7	-2.3	23	0.0
	UP	16889	0	293.6	127.3	2.1	1410	0.0
	Uttarakhand	1233	0	22.8	8.1	0.2	110	0.0
	HP	842	0	14.1	-1.2	-0.3	133	0.0
	J&K(UT) & Ladakh(UT)	2243	561	44.6	31.9	0.1	256	10.6
	Chandigarh	145	0	2.8	2.7	0.0	31	0.0
	Chhattisgarh	3162	0	74.5	18.3	-1.2	159	0.0
WR	Gujarat	12498	0	280.6	62.1	2.5	502	0.0
	MP	8756	0	187.9	98.5	-2.8	357	0.0
	Maharashtra	18664	0	412.7	155.7	1.7	437	0.0
	Goa	455	0	9.2	9.4	-0.2	42	0.0
	DD	128	0	2.9	3.0	-0.1	11	0.0
	DNH	150	0	3.4	3.4	0.0	26	0.0
	AMNSIL	339	0	1.5	1.0	0.5	151	0.0
SR	Andhra Pradesh	8410	0	169.4	89.4	-0.2	469	0.0
	Telangana	7240	0	146.0	64.2	-1.2	304	0.0
	Karnataka	9664	0	193.5	57.7	-1.2	581	0.0
	Kerala	3511	0	69.9	48.1	0.7	193	0.0
	Tamil Nadu	11172	0	260.8	180.5	-1.2	411	0.0
	Puducherry	291	0	5.8	6.0	-0.3	62	0.0
ER	Bihar	4235	0	71.8	70.2	1.2	410	0.0
	DVC	1638	0	31.8	-18.4	0.8	322	0.0
	Jharkhand	1263	0	21.1	17.7	-1.7	165	0.0
	Odisha	2775	0	56.5	-13.0	-0.9	503	0.0
	West Bengal	4843	0	93.3	29.1	-0.1	263	0.0
NER	Sikkim	110	0	1.5	1.5	0.0	35	0.0
	Arunachal Pradesh	103	1	1.4	1.1	0.1	32	0.0
	Assam	1144	35	16.5	13.5	0.0	84	4.0
	Manipur	184	1	2.2	2.3	-0.1	41	0.0
	Meghalaya	259	0	4.1	2.3	0.0	60	0.1
	Mizoram	85	2	1.4	1.2	0.1	24	0.0
	Nagaland	116	2	1.8	1.8	-0.2	14	0.0
	Tripura	202	10	2.9	2.2	-0.9	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.8	-0.7	-10.1
Day Peak (MW)	681.7	-106.1	-656.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.1	-209.3	157.3	-105.0	-3.2	0.0
Actual(MU)	163.0	-212.4	162.6	-109.6	-7.0	-3.5
O/D/U/D(MU)	2.9	-3.1	5.3	-4.7	-3.8	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7661	21926	8482	2230	712	41011
State Sector	19233	24391	13228	8742	11	65605
Total	26894	46316	21710	10972	723	106616

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	319	890	375	353	7	1944
Lignite	24	12	37	0	0	73
Hydro	180	62	57	56	7	361
Nuclear	28	36	51	0	0	115
Gas, Naptha & Diesel	23	50	20	0	25	118
RES (Wind, Solar, Biomass & Others)	73	145	156	5	3	381
Total	646	1196	696	413	42	2993
Share of RES in total generation (%)	11.31	12.11	22.36	1.15	6.44	12.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.40	20.30	37.93	14.60	22.79	28.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.101
Based on State Max Demands	1.112

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: 25-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	43	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	43	553	0.0	6.7	-6.7	
4	765 kV	SASARAM-FATEHPUR	S/C	202	176	0.0	0.2	-0.2	
5	765 kV	GAYABALLIA	S/C	0	378	0.0	5.7	-5.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	209	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	148	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	942	0.0	12.9	-12.9	
9	400 kV	PATNA-BALLIA	Q/C	0	821	0.0	11.5	-11.5	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	0	443	0.0	6.2	-6.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	255	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	166	264	0.0	1.6	-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	0.5	63.5	-63.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	886	129	7.4	0.0	7.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	492	294	1.4	0.0	1.4	
3	765 kV	JHARSUGUDA-DURG	D/C	0	313	0.0	4.4	-4.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	136	286	0.0	2.9	-2.9	
5	400 kV	RANCHI-SIPAT	D/C	288	186	0.0	0.1	-0.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	157	0.0	2.8	-2.8	
7	220 kV	BUDHIPADAR-KORBA	D/C	166	0	1.9	0.0	1.9	
						ER-WR	10.7	10.1	0.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	6.1	-6.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1981	0.0	44.2	-44.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3126	0.0	60.8	-60.8	
4	400 kV	TALCHER-I/C	D/C	478	1006	0.0	4.4	-4.4	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	111.1	-111.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	453	0	7.3	0.0	7.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	582	0	8.9	0.0	8.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	119	0	1.8	0.0	1.8	
						ER-NER	17.9	0.0	17.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	487	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	7.9	-7.9	
2	HVDC	V'CHAL B/B	D/C	448	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1549	0.0	29.7	-29.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2190	0.0	41.5	-41.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1111	0.0	16.2	-16.2	
6	765 kV	JABALPUR-ORAI	D/C	0	738	0.0	24.6	-24.6	
7	765 kV	GWALIOR-ORAI	S/C	586	0	9.8	0.0	9.8	
8	765 kV	SAINA-ORAI	S/C	0	1193	0.0	24.4	-24.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	64	738	0.0	4.9	-4.9	
10	400 kV	ZERDA-KANKROLI	S/C	102	67	0.7	0.0	0.7	
11	400 kV	ZERDA-BHINMAL	S/C	185	128	0.3	0.0	0.3	
12	400 kV	V'CHAL -RIHAND	S/C	482	0	10.9	0.0	10.9	
13	400 kV	RAPP-SHUJALPUR	D/C	225	211	0.0	0.4	-0.4	
14	220 kV	BHANPURA-RANPUR	S/C	28	62	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	94	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	S/C	99	0	1.1	0.0	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	71	7	0.6	0.0	0.6	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	35.4	152.3	-116.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	985	0.0	13.3	-13.3	
2	HVDC	BARSUR-L-SILERRU	-	3	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2130	0.0	31.3	-31.3	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2549	0.0	47.1	-47.1	
5	400 kV	KOLHAPUR-KUDGI	D/C	141	322	0.1	2.4	-2.3	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	71	0.0	1.5	-1.5	
8	220 kV	XELDEM-AMBEWADI	S/C	0	63	1.2	0.0	1.2	
						WR-SR	1.3	95.5	-94.2

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	50	18	12	0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	276	191	200	4.8
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	200	142	118	2.8
	NER	132KV-SALAKATI - GELEPHU	25	0	-11	-0.3
	NER	132KV-RANGIA - DEOTHANG	24	0	3	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-6	-2	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-100	-2	-23	-0.6
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-552	-208	-340	-8.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-41	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-41	-1.0