



**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: 23<sup>rd</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 22.04.2020.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22<sup>nd</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: 23-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)	38651	37972	33629	15593	2008	127853
Peak Shortage (MW)	769	0	0	0	250	1019
Energy Met (MU)	770	962	857	283	29	2900
Hydro Gen (MU)	167	60	78	55	7	368
Wind Gen (MU)	13	56	25	-	-	94
Solar Gen (MU)*	36.19	27.72	89.07	4.65	0.02	158
Energy Shortage (MU)	12.2	0.0	0.0	0.0	3.3	15.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39250	41166	39339	15687	1811	129991
Time Of Maximum Demand Met (From NLDC SCADA)	20:12	23:54	11:37	19:51	18:48	22:28

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	0.052	0.20	1.37	11.31	12.87	75.28	11.85

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	4230	0	81.2	55.3	-0.5	160	0.0
	Haryana	5331	0	89.7	81.6	1.0	235	0.0
	Rajasthan	8441	0	171.0	62.6	-1.1	349	0.0
	Delhi	2876	0	58.6	48.2	-1.6	30	0.0
	UP	15897	0	283.0	121.8	2.3	407	1.2
	Uttarakhand	1191	0	23.1	7.5	0.4	153	0.0
	HP	846	0	14.4	-1.4	0.6	150	0.2
	J&K(UT) & Ladakh(UT)	2215	554	45.9	34.3	2.1	442	10.9
	Chandigarh	137	0	2.6	2.7	-0.2	14	0.0
	Chhattisgarh	3216	0	75.1	19.0	-1.1	450	0.0
WR	Gujarat	12210	0	275.8	75.2	1.9	737	0.0
	MP	8887	0	189.3	118.3	-1.9	470	0.0
	Maharashtra	18222	0	405.7	152.2	1.3	447	0.0
	Goa	406	0	8.6	8.5	-0.1	52	0.0
	DD	126	0	2.7	2.7	0.0	19	0.0
	DNH	141	0	3.2	3.2	0.1	21	0.0
	AMNSIL	304	0	1.1	1.0	0.2	137	0.0
SR	Andhra Pradesh	8387	0	170.1	94.4	-1.4	241	0.0
	Telangana	6830	0	142.4	59.1	-0.2	426	0.0
	Karnataka	10374	0	207.9	64.0	-1.9	386	0.0
	Kerala	3567	0	70.7	47.7	0.5	193	0.0
	Tamil Nadu	11365	0	260.5	179.8	0.7	548	0.0
	Puducherry	290	0	5.8	6.0	-0.2	27	0.0
ER	Bihar	4312	0	72.8	71.9	0.1	270	0.0
	DVC	1460	0	29.2	-20.3	0.2	230	0.0
	Jharkhand	1450	0	20.6	14.3	-1.0	280	0.0
	Odisha	3369	0	63.6	-0.9	-0.6	200	0.0
	West Bengal	5472	0	95.1	33.4	1.7	335	0.0
NER	Sikkim	106	0	1.4	1.6	-0.1	25	0.0
	Arunachal Pradesh	105	2	1.4	1.0	0.3	24	0.0
	Assam	1218	196	14.3	13.1	-1.7	108	3.1
	Manipur	156	3	2.3	2.1	0.2	43	0.0
	Meghalaya	254	0	4.0	1.9	-0.3	31	0.1
	Mizoram	86	2	1.4	1.3	0.0	17	0.0
	Nagaland	112	1	2.0	1.6	0.2	11	0.0
	Tripura	212	23	3.3	2.2	-0.4	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.1	-0.3	-14.7
Day Peak (MW)	616.2	-117.7	-1032.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	130.5	-195.1	154.3	-86.0	-3.7	0.0
Actual(MU)	130.1	-197.0	162.6	-98.5	-5.1	-7.9
O/D/U/D(MU)	-0.4	-1.9	8.3	-12.5	-1.4	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6868	21126	8382	1730	1012	39117
State Sector	19983	22973	13228	8772	11	64967
Total	26851	44098	21610	10502	1023	104084

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	327	893	383	349	7	1959
Lignite	21	13	41	0	0	75
Hvdro	167	61	78	55	7	368
Nuclear	28	37	52	0	0	116
Gas, Naptha & Diesel	24	66	20	0	22	132
RES (Wind, Solar, Biomass & Others)	79	100	134	5	0	318
Total	648	1169	707	408	36	2968
Share of RES in total generation (%)	12.25	8.54	19.01	1.16	0.06	10.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.42	16.84	37.29	14.62	20.68	27.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.106

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: 23-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	29	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	0	641	0.0	3.0	-3.0	
4	765 kV	SASARAM-FATEHPUR	S/C	139	328	0.0	2.3	-2.3	
5	765 kV	GAYABALLA	S/C	0	368	0.0	5.7	-5.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	214	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	145	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	624	0.0	9.0	-9.0	
9	400 kV	PATNA-BALLIA	Q/C	0	871	0.0	12.8	-12.8	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	0	431	0.0	5.2	-5.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	294	0.0	4.1	-4.1	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	130	350	0.0	2.1	-2.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	187	0.0	2.8	-2.8	
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	64.2	-63.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1056	0	17.8	0.0	17.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	475	331	0.8	0.0	0.8	
3	765 kV	JHARSUGUDA-DURG	D/C	0	191	0.0	2.7	-2.7	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	39	218	0.0	2.7	-2.7	
5	400 kV	RANCHI-SIPAT	D/C	241	181	0.5	0.0	0.5	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	134	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	173	0	2.5	0.0	2.5	
						ER-WR	21.5	7.7	13.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	514	0.0	3.7	-3.7	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1980	0.0	38.2	-38.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2901	0.0	55.6	-55.6	
4	400 kV	TALCHER-I/C	D/C	228	1220	0.0	6.9	-6.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	102.5	-102.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	400	0	6.8	0.0	6.8	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	536	0	8.2	0.0	8.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	102	0	1.6	0.0	1.6	
						ER-NER	16.7	0.0	16.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	488	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	7.6	-7.6	
2	HVDC	V'CHAL B/B	D/C	448	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1130	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2227	0.0	34.6	-34.6	
5	765 kV	PHAGI-GWALIOR	D/C	0	1012	0.0	15.1	-15.1	
6	765 kV	JABALPUR-ORAI	D/C	0	739	0.0	21.7	-21.7	
7	765 kV	GWALIOR-ORAI	S/C	491	0	9.5	0.0	9.5	
8	765 kV	SAINA-ORAI	S/C	0	1240	0.0	24.5	-24.5	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	323	771	3.8	0.0	3.8	
10	400 kV	ZERDA-KANKROLI	S/C	149	97	1.1	0.0	1.1	
11	400 kV	ZERDA -BHINMAL	S/C	240	165	1.7	0.0	1.7	
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUALPUR	D/C	162	194	0.4	0.0	0.4	
14	220 kV	BHANPURA-RANPUR	S/C	33	72	0.0	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	0	81	0.0	1.3	-1.3	
16	220 kV	MEHGAON-AURAIYA	S/C	107	0	1.3	0.0	1.3	
17	220 kV	MALANPUR-AURAIYA	S/C	74	9	0.7	0.0	0.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	52.7	133.7	-81.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.2	-12.2	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2201	0.0	35.3	-35.3	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2521	0.0	47.8	-47.8	
5	400 kV	KOLHAPUR-KUDGI	D/C	333	0	1.7	0.5	1.2	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	37	0.0	0.8	-0.8	
8	220 kV	XELDEM-AMBEWADI	S/C	0	62	1.2	0.0	1.2	
						WR-SR	2.9	96.6	-93.7

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	53	15	8	0.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	197	189	175	4.2
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	211	145	168	4.0
	NER	132KV-SALAKATI - GELEPHU	19	0	-2	-0.1
	NER	132KV-RANGIA - DEOTHANG	0	0	15	0.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-3	-1	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-108	-2	-12	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-942	-248	-525	-12.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	45	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	45	0	-44	-1.1