



**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: 06<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 05.04.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05<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: 06-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 1900 hrs; from RLDCs)	33660	32845	33743	15927	2098	118273
Peak Shortage (MW)	454	0	0	0	53	507
Energy Met (MU)	649	853	880	337	33	2752
Hydro Gen (MU)	140	46	80	49	4	319
Wind Gen (MU)	23	46	28	-	-	97
Solar Gen (MU)*	37.87	29.30	83.68	4.63	0.02	156
Energy Shortage (MU)	7.5	0.0	0.0	0.0	0.3	7.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	34341	38791	42272	16497	2140	124444
Time Of Maximum Demand Met (From NLDC SCADA)	19:36	07:08	11:59	20:12	18:36	09:43

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	0.043	0.00	0.41	4.50	4.91	73.18	21.91

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	3462	0	73.9	55.7	-0.8	59	0.0
	Haryana	4011	0	74.2	71.2	0.4	121	0.0
	Rajasthan	7847	0	146.2	50.3	-3.4	494	0.0
	Delhi	2195	0	44.3	33.8	-1.7	60	0.0
	UP	14270	0	236.8	111.4	0.1	614	0.0
	Uttarakhand	1003	0	18.4	4.9	0.7	197	0.0
	HP	746	0	11.9	1.1	-1.4	65	0.0
	J&K(UT) & Ladakh(UT)	2042	510	40.7	32.1	-0.4	242	7.5
	Chandigarh	130	0	2.2	2.3	-0.1	15	0.0
	Chhattisgarh	3137	0	70.5	21.6	-1.0	218	0.0
WR	Gujarat	10582	0	231.5	67.1	2.8	795	0.0
	MP	8611	0	164.3	94.3	-2.2	628	0.0
	Maharashtra	17392	0	376.5	154.5	0.5	1036	0.0
	Goa	323	0	6.8	7.0	-0.2	28	0.0
	DD	64	0	1.4	1.6	-0.2	6	0.0
	DNH	83	0	1.8	1.9	-0.1	33	0.0
	Essar steel	179	0	0.6	0.5	0.1	113	0.0
SR	Andhra Pradesh	8189	0	162.0	85.7	0.9	1083	0.0
	Telangana	9097	0	188.2	93.6	-0.1	582	0.0
	Karnataka	11093	0	214.5	78.6	0.7	970	0.0
	Kerala	3039	0	65.5	51.7	0.5	208	0.0
	Tamil Nadu	10737	0	245.5	181.8	1.1	602	0.0
	Puducherry	227	0	4.4	4.5	-0.2	31	0.0
	DVC	4027	0	74.6	73.8	-0.5	150	0.0
ER	Bihar	1476	0	29.2	-21.2	0.1	330	0.0
	Jharkhand	1455	0	22.7	16.2	-0.1	170	0.0
	Odisha	3445	0	69.1	10.8	0.9	395	0.0
	West Bengal	6589	0	140.1	38.1	0.9	280	0.0
	Sikkim	79	0	1.0	1.2	-0.2	115	0.0
NER	Arunachal Pradesh	110	1	1.5	1.0	0.4	26	0.0
	Assam	1835	30	19.1	17.2	-0.8	118	0.1
	Manipur	175	1	2.3	2.1	0.2	28	0.0
	Meghalaya	237	0	3.5	3.4	-0.2	61	0.1
	Mizoram	90	1	1.5	1.2	0.1	19	0.0
	Nagaland	116	1	2.1	2.1	-0.1	40	0.0
	Tripura	198	1	3.4	3.2	-0.2	65	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.5	-2.8	-14.2
Day Peak (MW)	746.6	-269.9	-1058.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.7	-209.9	155.7	-60.8	-3.8	-0.1
Actual(MU)	99.8	-219.7	178.9	-60.8	-2.8	-4.6
O/D/U/D(MU)	-18.9	-9.8	23.3	0.0	1.0	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6478	21816	6482	1975	399	37149
State Sector	21228	27306	14125	8710	11	71380
Total	27706	49122	20607	10685	410	108530

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	274	809	381	377	10	1851
Lignite	12	12	51	0	0	75
Hydro	140	46	80	49	4	319
Nuclear	23	35	52	0	0	111
Gas, Naptha & Diesel	22	86	19	0	27	154
RES (Wind, Solar, Biomass & Others)	90	87	129	5	0	311
Total	561	1076	712	430	41	2821
Share of RES in total generation (%)	16.01	8.12	18.08	1.08	0.05	11.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.04	15.73	36.57	12.46	9.94	26.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.077
Based on State Max Demands	1.111

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: 06-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	2	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	159	356	0.0	3.1	-3.1	
4	765 kV	SASARAM-FATEHPUR	S/C	197	159	0.4	0.0	0.4	
5	765 kV	GAYABALLIA	S/C	0	296	0.0	4.0	-4.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	226	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	49	116	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	72	509	0.0	5.4	-5.4	
9	400 kV	PATNA-BALLIA	Q/C	0	613	0.0	8.0	-8.0	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	20	236	0.0	2.8	-2.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	254	0.0	3.5	-3.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	181	160	1.0	0.0	1.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	174	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	2.0	41.7	-39.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1543	0	28.1	614.0	28.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	646	539	2.9	0.0	2.9	
3	765 kV	JHARSUGUDA-DURG	D/C	92	254	0.0	0.6	-0.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	68	228	0.0	1.3	-1.3	
5	400 kV	RANCHI-SIPAT	D/C	253	171	1.4	0.0	1.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	117	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	155	0	2.6	0.0	2.6	
						ER-WR	35.1	3.7	31.3
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	565	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1985	0.0	45.1	-45.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2957	0.0	58.4	-58.4	
4	400 kV	TALCHER-I/C	D/C	398	985	0.0	5.2	-5.2	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	112.2	-112.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	469	0	5.7	0.0	5.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	528	0	6.3	0.0	6.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	104	0	1.3	0.0	1.3	
						ER-NER	13.3	0.0	13.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	0	11.2	0.0	11.2	
						NER-NR	11.2	0.0	11.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	505	0.0	9.2	-9.2	
2	HVDC	V'CHAL B/B	D/C	452	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	981	0.0	18.5	-18.5	
4	765 kV	GWALIOR-AGRA	D/C	0	1860	0.0	33.3	-33.3	
5	765 kV	PHAGI-GWALIOR	D/C	0	1033	0.0	15.6	-15.6	
6	765 kV	JABALPUR-ORAI	D/C	0	580	0.0	19.1	-19.1	
7	765 kV	GWALIOR-ORAI	S/C	520	0	8.6	0.0	8.6	
8	765 kV	SATNA-ORAI	S/C	0	1156	0.0	24.5	-24.5	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	222	502	0.0	4.1	-4.1	
10	400 kV	ZERDA-KANKROLI	S/C	134	84	1.2	0.0	1.2	
11	400 kV	ZERDA -BHINMAL	S/C	409	136	2.3	0.0	2.3	
12	400 kV	V'CHAL -RIHAND	S/C	965	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUJALPUR	D/C	221	124	1.5	0.0	1.5	
14	220 kV	BHANPURA-RANPUR	S/C	44	47	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	S/C	0	98	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	105	0	1.3	0.0	1.3	
17	220 kV	MALANPUR-AURAIYA	S/C	75	1	0.7	0.0	0.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	49.8	125.7	-75.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	972	0.0	20.6	-20.6	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2536	0.0	42.1	-42.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2771	0.0	51.4	-51.4	
5	400 kV	KOLHAPUR-KUDGI	D/C	506	0	1.6	0.0	1.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	55	0.0	1.0	-1.0	
8	220 kV	XELDEM-AMBEWADI	S/C	0	84	1.2	0.0	1.2	
						WR-SR	2.7	115.1	-112.4

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	54	0	-15	-0.4
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	260	128	154	3.7
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	294	144	146	3.5
	NER	132KV-SALAKATI - GELEPHU	25	0	-15	-0.4
	NER	132KV-RANGIA - DEOTHANG	11	0	0	0.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.4
	ER	132KV-BIHAR - NEPAL	-60	-2	-24	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-174	-44	-75	-1.8
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-956	-262	-495	-11.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-48	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	51	0	-48	-1.2