



**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: 05<sup>th</sup> May 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 04.05.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 04-मई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 04<sup>th</sup> May 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: 05-May-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)	37536	38654	34676	17338	2367	130571
Peak Shortage (MW)	466	0	0	0	23	489
Energy Met (MU)	776	986	852	346	40	3000
Hydro Gen (MU)	250	37	87	74	6	454
Wind Gen (MU)	15	85	31	-	-	131
Solar Gen (MU)*	28.80	27.57	95.80	4.73	0.05	157
Energy Shortage (MU)	13.9	0.1	0.0	0.0	0.5	14.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	40126	43876	38976	17270	2416	135074
Time Of Maximum Demand Met (From NLDC SCADA)	20:08	15:25	14:54	20:22	18:58	22:16

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	0.059	0.49	2.89	6.25	9.63	75.45	14.92

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	4900	0	91.2	68.0	-0.9	213	0.0
	Haryana	5203	190	91.0	88.7	0.6	386	0.1
	Rajasthan	8613	0	171.6	65.2	-1.5	611	0.0
	Delhi	3162	0	61.2	52.3	-2.7	0	0.0
	UP	15937	380	280.0	138.7	3.5	948	3.7
	Uttarakhand	1220	0	22.3	5.1	0.5	113	0.0
	HP	965	0	17.6	-5.1	0.3	151	0.0
	J&K(UT) & Ladakh(UT)	1832	323	38.7	23.5	-4.4	423	10.1
WR	Chhattisgarh	152	0	3.0	3.9	-0.9	4	0.0
	Chhattisgarh	3181	0	72.1	21.0	-1.6	289	0.0
	Gujarat	13635	0	294.1	89.4	2.7	610	0.0
	MP	8262	0	178.5	98.9	-2.5	336	0.0
	Maharashtra	19049	0	416.5	177.5	-0.9	474	0.0
	Goa	482	0	10.5	10.2	-0.1	50	0.1
	DD	165	0	3.5	3.3	0.2	58	0.0
	DNH	296	0	6.7	6.6	0.1	71	0.0
SR	AMNSIL	461	0	4.1	3.6	0.5	209	0.0
	Andhra Pradesh	8414	0	167.5	96.3	-1.2	639	0.0
	Telangana	6859	0	144.6	63.5	-0.7	287	0.0
	Karnataka	9805	0	195.8	53.7	-0.8	584	0.0
	Kerala	3713	0	74.0	49.9	0.6	189	0.0
	Tamil Nadu	11622	0	263.3	188.2	1.1	502	0.0
ER	Puducherry	318	0	6.4	6.6	-0.2	21	0.0
	Bihar	4503	0	84.7	79.1	0.9	364	0.0
	DVC	1947	0	40.4	-19.2	0.0	187	0.0
	Jharkhand	1324	0	23.5	16.8	-1.4	82	0.0
	Odisha	3691	0	76.2	-3.6	-0.4	270	0.0
NER	West Bengal	6334	0	120.1	47.7	2.5	616	0.0
	Sikkim	99	0	1.3	1.4	-0.1	14	0.0
	Arunachal Pradesh	84	2	1.4	0.9	0.4	34	0.0
	Assam	1529	18	24.6	21.4	0.3	108	0.3
	Manipur	172	2	2.5	2.3	0.2	29	0.0
	Meghalaya	329	1	4.3	1.4	-0.1	36	0.1
	Mizoram	89	2	1.5	1.4	-0.1	15	0.0
Nagaland	109	1	2.1	1.9	0.1	18	0.0	
Tripura	251	5	3.6	3.6	-0.5	42	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.3	-0.6	-13.6
Day Peak (MW)	1208.8	-164.9	-947.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	130.3	-207.1	162.6	-86.6	0.9	0.1
Actual(MU)	113.3	-230.0	177.0	-72.5	2.9	-9.3
O/D/U/D(MU)	-16.9	-22.9	14.4	14.2	2.0	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6905	19543	8392	2425	649	37914
State Sector	21218	24197	14708	7982	11	68116
Total	28123	43739	23100	10407	660	106029

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	292	931	344	359	7	1933
Lignite	24	13	41	0	0	78
Hydro	250	37	87	74	6	454
Nuclear	28	36	51	0	0	115
Gas, Naptha & Diesel	24	62	21	0	29	136
RES (Wind, Solar, Biomass & Others)	75	132	143	5	0	355
Total	693	1211	686	438	42	3071

Share of RES in total generation (%)	10.88	10.90	20.85	1.08	0.12	11.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	51.00	16.95	40.91	17.98	14.66	30.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.101

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: 05-May-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	248	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	171	482	0.0	2.7	-2.7	
4	765 kV	SASARAM-FATEHPUR	S/C	185	113	1.6	0.0	1.6	
5	765 kV	GAYA-BALIA	S/C	44	326	0.0	3.8	-3.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	236	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	89	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	685	0.0	7.0	-7.0	
9	400 kV	PATNA-BALIA	Q/C	16	621	0.0	6.0	-6.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	28	270	0.0	2.2	-2.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	240	0.0	3.0	-3.0	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	215	144	1.9	0.0	1.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	189	0.0	3.5	-3.5	
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	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						<b>ER-NR</b>	<b>4.0</b>	<b>40.2</b>	<b>-36.2</b>
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1438	0	22.4	0.0	22.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	643	132	6.1	0.0	6.1	
3	765 kV	JHARSUGUDA-DURG	D/C	16	436	0.0	4.5	-4.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	196	126	0.4	0.0	0.4	
5	400 kV	RANCHI-SIPAT	D/C	394	41	4.1	0.0	4.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	123	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	D/C	185	0	2.3	0.0	2.3	
						<b>ER-WR</b>	<b>35.2</b>	<b>6.5</b>	<b>28.7</b>
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	276	0.0	6.2	-6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2374	0.0	49.4	-49.4	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3048	0.0	62.3	-62.3	
4	400 kV	TALCHER-I/C	D/C	0	1406	0.0	11.3	-11.3	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>0.0</b>	<b>117.9</b>	<b>-117.9</b>
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	275	0	4.2	0.0	4.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	402	0	4.8	0.0	4.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	70	17	0.7	0.0	0.7	
						<b>ER-NER</b>	<b>9.7</b>	<b>0.0</b>	<b>9.7</b>
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	463	0	11.6	0.0	11.6	
						<b>NER-NR</b>	<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<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	0	52	0.0	1.2	-1.2	
3	HVDC	APL -MHG	D/C	0	1125	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2118	0.0	40.0	-40.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1272	0.0	16.4	-16.4	
6	765 kV	JABALPUR-ORAI	D/C	13	636	0.0	15.3	-15.3	
7	765 kV	GWALIOR-ORAI	S/C	445	0	6.6	0.0	6.6	
8	765 kV	SATNA-ORAI	S/C	0	1296	0.0	26.0	-26.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	596	691	0.0	3.6	-3.6	
10	400 kV	ZERDA-KANKROLI	S/C	235	48	2.7	0.0	2.7	
11	400 kV	ZERDA -BHINMAL	S/C	465	87	3.7	0.0	3.7	
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUALPUR	D/C	421	41	3.0	0.0	3.0	
14	220 kV	BHANPURA-RANPUR	S/C	23	42	0.0	0.8	-0.8	
15	220 kV	BHANPURA-MORAK	S/C	0	82	0.0	1.3	-1.3	
16	220 kV	MEHGAON-AURAIYA	S/C	67	14	0.4	0.0	0.3	
17	220 kV	MALANPUR-AURAIYA	S/C	51	25	0.2	0.0	0.2	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>38.9</b>	<b>140.0</b>	<b>-101.1</b>
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	23.6	-23.6	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2138	0.0	30.7	-30.7	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2519	0.0	47.2	-47.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	335	287	1.6	1.5	0.1	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	S/C	0	93	1.7	0.0	1.7	
						<b>WR-SR</b>	<b>3.3</b>	<b>102.9</b>	<b>-99.6</b>

**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	165	130	130	3.1
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	426	196	282	6.8
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	463	300	265	6.4
	NER	132KV-SALAKATI - GELEPHU	0	0	10	0.2
	NER	132KV-RANGIA - DEOTHANG	0	0	33	0.8
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-9	-2	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-156	2	-20	-0.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-810	-264	-457	-11.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-55	-1.3