



**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: 16<sup>th</sup> Apr 2021

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 15.04.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-अप्रैल-2021 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 15<sup>th</sup> April 2021, 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: 16-Apr-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	50731	53389	43514	22550	2613	172797
Peak Shortage (MW)	350	50	0	0	45	445
Energy Met (MU)	1075	1304	988	507	46	3920
Hydro Gen (MU)	102	38	58	40	11	249
Wind Gen (MU)	20	65	19	-	-	104
Solar Gen (MU)*	50.90	37.20	108.66	5.08	0.20	202
Energy Shortage (MU)	7.57	0.40	0.00	0.00	1.54	9.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51220	58456	46651	23190	2857	174071
Time Of Maximum Demand Met (From NLDC SCADA)	19:54	15:59	14:37	22:29	18:34	19:25

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	0.039	0.00	0.49	7.42	7.90	71.74	20.36

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	6192	0	126.8	54.9	-0.9	183	0.00
	Haryana	7411	13	141.4	93.6	1.8	224	0.56
	Rajasthan	10585	0	223.4	45.9	0.7	429	0.00
	Delhi	4283	0	88.7	74.0	-1.5	68	0.00
	UP	19254	0	372.3	139.4	0.5	920	0.19
	Uttarakhand	1887	0	39.4	23.2	2.0	440	0.42
	HP	1343	0	27.3	19.1	0.1	103	0.00
	J&K(UT) & Ladakh(UT)	2603	350	51.6	42.0	-0.4	319	6.40
WR	Chandigarh	204	0	4.2	3.8	0.4	56	0.00
	Chhattisgarh	4508	0	108.4	48.4	-0.4	382	0.00
	Gujarat	18853	0	400.4	121.7	-1.8	541	0.00
	MP	10475	0	230.5	135.9	-2.5	658	0.00
	Maharashtra	23027	0	510.4	159.0	-2.1	910	0.00
	Goa	464	50	10.9	10.4	-0.1	40	0.40
	DD	333	0	7.2	7.1	0.1	34	0.00
	DNH	824	0	19.1	19.2	-0.1	39	0.00
SR	AMNSIL	773	0	17.4	3.3	-0.1	268	0.00
	Andhra Pradesh	8900	0	177.5	91.5	0.1	965	0.00
	Telangana	9499	0	196.5	83.6	-1.7	333	0.00
	Karnataka	11419	0	219.0	67.9	-0.8	877	0.00
	Kerala	3754	0	77.8	59.0	-0.1	287	0.00
	Tamil Nadu	14490	0	308.9	195.1	-2.9	578	0.00
	Puducherry	406	0	8.5	9.0	-0.5	43	0.00
ER	Bihar	5722	0	118.7	102.9	5.1	541	0.00
	DVC	3197	0	69.7	-42.4	0.5	522	0.00
	Jharkhand	1626	0	30.0	25.2	-0.4	181	0.00
	Odisha	4676	0	98.0	35.0	-1.2	302	0.00
	West Bengal	9246	0	189.9	54.1	0.1	379	0.00
	Sikkim	57	0	0.8	1.6	-0.8	0	0.00
NER	Arunachal Pradesh	120	1	2.2	2.4	-0.3	10	0.01
	Assam	1550	34	26.6	22.1	0.8	142	1.50
	Manipur	194	1	2.5	2.5	-0.1	24	0.01
	Meghalaya	324	0	5.6	4.0	0.0	44	0.00
	Mizoram	110	1	1.6	1.6	0.0	21	0.01
	Nagaland	136	1	2.3	2.2	0.1	20	0.01
Tripura	324	5	5.1	4.2	0.4	76	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.3	-16.6	-24.3
Day Peak (MW)	405.0	-865.6	-1031.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.5	-307.8	151.3	-65.4	10.3	0.0
Actual(MU)	217.7	-317.9	129.5	-43.6	13.6	-0.7
O/D/U/D(MU)	6.3	-10.2	-21.8	21.8	3.3	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6107	13478	6952	1348	1460	29345	46
State Sector	12625	11896	5755	4663	11	34950	54
Total	18732	25374	12707	6011	1471	64295	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	592	1427	568	551	13	3151	78
Lignite	22	8	39	0	0	68	2
Hydro	102	38	58	40	11	249	6
Nuclear	31	33	42	0	0	107	3
Gas, Naptha & Diesel	37	40	11	0	15	103	3
RES (Wind, Solar, Biomass & Others)	92	103	156	5	0	356	9
Total	876	1649	874	596	38	4034	100

Share of RES in total generation (%)	10.48	6.23	17.85	0.86	0.52	8.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.69	10.57	29.33	7.55	28.15	17.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.084

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: 16-Apr-2021

Sl No	Voltage Level	Line Details	No. of 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	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	114	403	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	82	182	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	379	0.0	5.5	-5.5
6	400 kV	PUSAULI-VARANASI	1	0	248	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	60	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	297	445	0.0	3.3	-3.3
9	400 kV	PATNA-BALIA	4	0	732	0.0	11.6	-11.6
10	400 kV	BIHARSHARIFF-BALIA	2	168	163	0.0	1.0	-1.0
11	400 kV	MOTIHARI-GORAKHPUR	2	90	347	0.0	2.0	-2.0
12	400 kV	BIHARSHARIFF-VARANASI	2	169	87	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	16	80	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.5</b>	<b>43.7</b>	<b>-43.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1665	0	26.4	0.0	26.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1326	5	18.8	0.0	18.8
3	765 kV	JHARSUGUDA-DURG	2	213	41	2.5	0.0	2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	126	247	0.0	0.3	-0.3
5	400 kV	RANCHI-SIPAT	2	326	65	4.5	0.0	4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	163	0	2.7	0.0	2.7
<b>ER-WR</b>						<b>54.9</b>	<b>3.0</b>	<b>51.9</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	530	0.0	7.9	-7.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1634	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3036	0.0	53.5	-53.5
4	400 kV	TALCHER-I/C	2	377	0	5.2	0.0	5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>100.8</b>	<b>-100.8</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	163	198	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	284	254	0.0	1.2	-1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	49	47	0.0	0.1	-0.1
<b>ER-NER</b>						<b>0.0</b>	<b>2.5</b>	<b>-2.5</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	497	0	11.2	0.0	11.2
<b>NER-NR</b>						<b>11.2</b>	<b>0.0</b>	<b>11.2</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	70.1	-70.1
2	HVDC	VINDHYACHAL B/B	-	0	155	0.0	3.6	-3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2818	0.0	51.5	-51.5
5	765 kV	PHAGI-GWALIOR	2	0	1558	0.0	25.5	-25.5
6	765 kV	JABALPUR-ORAI	2	740	958	0.0	32.6	-32.6
7	765 kV	GWALIOR-ORAI	1	778	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1456	0.0	30.5	-30.5
9	765 kV	CHITORGARH-BANASKANTHA	2	1018	0	15.0	0.0	15.0
10	400 kV	ZERDA-KANKROLI	1	300	0	4.5	0.0	4.5
11	400 kV	ZERDA -BHINMAL	1	506	0	6.8	0.0	6.8
12	400 kV	VINDHYACHAL -RIHAND	1	979	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	187	303	0.0	2.7	-2.7
14	220 kV	BHANPURA-RANPUR	1	29	64	0.0	0.7	-0.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3
16	220 kV	MEHGAON-AURAIYA	1	97	0	0.4	0.1	0.4
17	220 kV	MALANPUR-AURAIYA	1	64	20	1.0	0.0	1.0
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>63.5</b>	<b>253.9</b>	<b>-190.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	14.9	-14.9
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	15.5	-15.5
3	765 kV	SOLAPUR-RAICHUR	2	0	2488	0.0	22.8	-22.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2666	0.0	38.1	-38.1
5	400 kV	KOLHAPUR-KUDGI	2	806	35	12.9	0.0	12.9
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	126	2.5	0.0	2.5
<b>WR-SR</b>						<b>15.4</b>	<b>91.4</b>	<b>-76.0</b>

**INTERNATIONAL EXCHANGES**

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	177	0	150	3.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	194	48	62	1.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.8
	NER	132KV-GEYLEGPHU - SALAKATI	25	9	12	0.3
	NER	132kV Motanga-Rangia	12	1	3	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-428	-214	-325	-7.8
	ER	132KV-BIHAR - NEPAL	-358	-237	-296	-7.1

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-866	-860	-863	-20.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-75	-1.8