



**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: 21<sup>st</sup> Apr 2019

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. मुख्य महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, 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 20.04.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अप्रैल-2019 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 20<sup>th</sup> April 2019, 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

21-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45216	48453	40518	21104	2161	157452
Peak Shortage (MW)	539	0	0	0	436	975
Energy Met (MU)	923	1197	999	427	40	3586
Hydro Gen (MU)	182	45	66	50	5	348
Wind Gen (MU)	4	54	35	-----	-----	93
Solar Gen (MU)*	28.17	28.3	84.67	1.10	0.04	142
Energy Shortage (MU)	10.6	0.0	0.0	0.0	3.6	14.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46096 19:42	53083 15:33	44437 14:56	21524 19:15	2143 18:13	159415 19:31

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	0.034	0.00	0.07	6.48	6.55	79.11	14.34

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	5462	0	112.8	44.4	-1.3	24	0.0
	Haryana	6481	0	116.2	83.9	0.2	485	0.0
	Rajasthan	8423	0	187.2	61.5	-1.3	282	0.0
	Delhi	3696	0	78.7	65.6	-1.5	98	0.0
	UP	16703	0	315.6	145.7	-1.2	528	0.0
	Uttarakhand	1779	0	38.1	16.9	0.4	137	0.0
	HP	1355	0	26.1	9.3	0.1	73	0.0
	J&K	2168	542	44.7	28.0	-0.8	100	10.6
WR	Chandigarh	181	0	3.5	3.9	-0.4	42	0.0
	Chhattisgarh	4267	0	95.6	43.7	-3.5	306	0.0
	Gujarat	16367	0	367.5	118.1	2.4	615	0.0
	MP	8835	0	200.5	89.0	-0.8	343	0.0
	Maharashtra	22045	0	487.4	149.7	-1.6	426	0.0
	Goa	548	0	13.8	11.0	2.6	36	0.0
	DD	333	0	7.5	7.3	0.2	25	0.0
	DNH	789	0	18.4	18.5	-0.1	47	0.0
SR	Essar steel	301	0	5.8	5.5	0.3	303	0.0
	Andhra Pradesh	9023	0	187.8	60.2	0.1	688	0.0
	Telangana	7977	0	167.9	65.9	-0.7	567	0.0
	Karnataka	11597	0	228.6	67.8	-0.2	479	0.0
	Kerala	3577	0	74.9	56.6	0.9	307	0.0
	Tamil Nadu	14356	0	330.5	193.7	-0.8	600	0.0
	Pondy	427	0	9.2	9.1	0.1	37	0.0
	Bihar	4831	0	89.8	84.1	1.7	385	0.0
ER	DVC	3223	0	69.3	-48.0	-0.5	320	0.0
	Jharkhand	1093	0	22.6	13.2	-0.4	165	0.0
	Odisha	4025	0	79.9	27.0	-0.2	345	0.0
	West Bengal	8780	0	164.3	47.3	2.3	425	0.0
	Sikkim	95	0	1.2	1.2	0.0	20	0.0
NER	Arunachal Pradesh	106	3	2.1	2.2	0.0	34	0.0
	Assam	1154	306	23.8	20.2	0.4	146	2.7
	Manipur	162	4	1.8	1.6	0.2	66	0.0
	Meghalaya	343	32	5.3	2.7	0.2	95	0.7
	Mizoram	98	3	1.6	1.1	0.3	42	0.0
	Nagaland	124	4	2.2	1.9	0.3	25	0.0
	Tripura	242	8	3.6	3.3	-0.3	69	0.2

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.2	-8.2	-19.2
Day peak (MW)	525.8	-485.1	-1013.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.5	-247.5	150.4	-73.7	1.0	-0.4
Actual(MU)	157.9	-253.5	160.8	-72.9	7.5	-0.2
O/D/U/D(MU)	-11.6	-6.0	10.4	0.8	6.5	0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5266	11287	7762	1560	497	26372
State Sector	13130	14403	6720	2175	50	36478
Total	18396	25690	14482	3735	547	62849

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	461	1235	522	474	10	2702
Lignite	17	16	53	0	0	86
Hydro	182	45	66	50	5	348
Nuclear	28	31	37	0	0	96
Gas, Naptha & Diesel	29	50	16	0	21	115
RES (Wind, Solar, Biomass & Others)	61	86	155	1	0	304
Total	779	1463	849	525	36	3651
Share of RES in total generation (%)	7.88	5.89	18.30	0.22	0.11	8.33
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.90	11.06	30.42	9.74	13.24	20.48

H. Diversity Factor

All India Demand Diversity Factor	1.049
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Diversity factor = Sum of regional maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

**INTER-REGIONAL EXCHANGES**

Date of Reporting : 21-Apr-19

Import=(+ve)  
/Export =(-ve)  
for NET (MU)

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	765kV	GAYA-VARANASI	D/C	135	521	0.0	5.7	-5.7
2		SASARAM-FATEHPUR	S/C	0	252	0.0	3.5	-3.5
3		GAYA-BALIA	S/C	0	371	0.0	6.0	-6.0
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	50	0.0	1.2	-1.2
6	400 kV	PUSAULI-VARANASI	S/C	0	92	0.0	1.5	-1.5
7		PUSAULI -ALLAHABAD	S/C	31	18	0.3	0.0	0.3
8		MUZAFFARPUR-GORAKHPUR	D/C	107	757	0.0	8.3	-8.3
9		PATNA-BALIA	Q/C	0	905	0.0	16.0	-16.0
10		BIHARSHARIFF-BALIA	D/C	0	417	0.0	6.8	-6.8
11		MOTIHARI-GORAKHPUR	D/C	0	298	0.0	5.0	-5.0
12		BIHARSHARIFF-VARANASI	D/C	5	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	165	0.0	3.2	-3.2
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.8</b>	<b>57.2</b>	<b>-56.3</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1907	0	36.5	0.0	36.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	522	171	3.5	0.0	3.5
20		JHARSUGUDA-DURG	D/C	172	79	0.8	0.0	0.8
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	203	70	1.8	0.0	1.8
22		RANCHI-SIPAT	D/C	184	18	1.7	0.0	1.7
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	103	0.0	1.7	-1.7
24		BUDHIPADAR-KORBA	D/C	158	0	2.5	0.0	2.5
<b>ER-WR</b>						<b>46.8</b>	<b>1.7</b>	<b>45.1</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1979.0	0.0	37.2	-37.2
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	698.0	0.0	16.1	-16.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2456.0	0.0	50.1	-50.1
28	400 kV	TALCHER-I/C	D/C	0.0	785.0	0.0	8.9	-8.9
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>103.4</b>	<b>-103.4</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	282	370	0.0	0.7	-1
31		ALIPURDUAR-BONGAIGAON	D/C	375	334	0.6	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	52	81	0.0	0.2	0
<b>ER-NER</b>						<b>0.6</b>	<b>0.9</b>	<b>-0.3</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	655	0	6.7	0.0	6.7
<b>NER-NR</b>						<b>6.7</b>	<b>0.0</b>	<b>6.7</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	502	0.0	12.0	-12.0
35		V'CHAL B/B	D/C	243	2	5.6	0.0	5.6
36		APL -MHG	D/C	0	1549	0.0	36.0	-36.0
37	765 kV	GWALIOR-AGRA	D/C	0	2274	0.0	38.3	-38.3
38		PHAGI-GWALIOR	D/C	0	1036	0.0	18.4	-18.4
39		JABALPUR-ORAI	D/C	0	683	0.0	20.2	-20.2
40		GWALIOR-ORAI	S/C	461	0	10.0	0.0	10.0
41		SATNA-ORAI	S/C	0	1331	0.0	27.2	-27.2
42		CHITORGARH-BANASKANTHA	D/C	638	406	2.8	0.0	2.8
43		ZERDA-KANKROLI	S/C	274	26	3.5	0.0	3.5
44	400 kV	ZERDA -BHINMAL	S/C	153	116	0.8	0.0	0.8
45		V'CHAL -RIHAND	S/C	978	0	22.6	0.0	22.6
46	220 kV	RAPP-SHUJALPUR	D/C	95	279	1	0	1
47		BADOD-KOTA	S/C	52	56	0.1	0.3	-0.3
48		BADOD-MORAK	S/C	0	78	0.0	1.2	-1.2
49		MEHGAON-AURAIYA	S/C	41	0	0.4	0.0	0.4
50	132kV	MALANPUR-AURAIYA	S/C	13	33	0.0	0.2	-0.2
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>46.5</b>	<b>153.8</b>	<b>-107.3</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	481	0.0	11.4	-11.4
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2427	0.0	44.8	-44.8
55		WARDHA-NIZAMABAD	D/C	0	2209	0.0	43.3	-43.3
56	400 kV	KOLHAPUR-KUDGI	D/C	330	265	0.0	0.2	-0.2
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	63	1.3	0.0	1.3
<b>WR-SR</b>						<b>1.3</b>	<b>99.7</b>	<b>-98.4</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						7.2
61		NEPAL						-8.2
62		BANGLADESH						-19.2