



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: 20<sup>th</sup> Apr 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 19.04.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19<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

20-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44267	47365	41839	20055	2429	155955
Peak Shortage (MW)	499	0	0	0	121	620
Energy Met (MU)	885	1167	994	421	44	3511
Hydro Gen (MU)	187	33	61	53	4	338
Wind Gen (MU)	5	49	41	-----	-----	95
Solar Gen (MU)*	26.27	28.27	84.30	0.94	0.05	140
Energy Shortage (MU)	10.6	0.0	0.0	0.0	1.0	11.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44866 19:47	51504 11:29	45026 14:54	20446 20:27	2416 19:01	158452 19:37

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	0.027	0.00	0.16	4.70	4.86	78.16	16.98

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	5248	0	104.6	44.3	-0.9	153	0.0	
	Haryana	6679	0	114.3	89.6	-0.2	166	0.0	
	Rajasthan	8243	0	178.1	54.6	-1.7	287	0.0	
	Delhi	3638	0	75.2	66.0	-1.6	88	0.0	
	UP	16036	0	301.0	140.5	1.1	989	0.0	
	Uttarakhand	1794	0	37.5	17.3	0.6	120	0.0	
	HP	1376	0	26.6	8.9	1.0	177	0.0	
	J&K	2144	536	44.7	28.1	-0.6	184	10.6	
	Chandigarh	170	0	3.2	3.6	-0.4	19	0.0	
	WR	Chhattisgarh	4147	0	93.6	42.5	-3.7	316	0.0
Gujarat		15775	0	358.8	130.1	2.8	578	0.0	
MP		8615	0	192.0	83.1	-1.9	445	0.0	
Maharashtra		21143	0	477.8	148.1	-1.1	535	0.0	
Goa		548	0	13.8	10.7	2.9	42	0.0	
DD		334	0	7.5	7.3	0.2	44	0.0	
DNH		787	0	18.5	18.6	-0.1	52	0.0	
Essar steel		302	0	5.2	5.0	0.2	284	0.0	
SR		Andhra Pradesh	8945	0	193.5	62.7	-0.2	417	0.0
		Telangana	8279	0	173.3	68.0	-0.9	558	0.0
	Karnataka	11510	0	220.7	63.8	0.6	441	0.0	
	Kerala	3363	0	69.2	53.8	1.1	169	0.0	
	Tamil Nadu	14451	0	329.0	182.4	0.2	814	0.0	
	Pondy	425	0	8.7	8.7	0.0	68	0.0	
	ER	Bihar	4593	0	86.6	83.1	0.4	356	0.0
		DVC	3144	0	66.9	-47.3	-0.6	325	0.0
		Jharkhand	960	0	19.7	14.0	-0.5	185	0.0
		Odisha	4066	0	80.7	29.0	0.4	398	0.0
West Bengal		8358	0	166.0	49.7	2.1	432	0.0	
Sikkim		81	0	1.0	1.4	-0.4	20	0.0	
NER		Arunachal Pradesh	117	3	2.1	2.4	-0.3	6	0.0
		Assam	1467	80	26.1	21.6	1.2	177	0.8
		Manipur	152	2	1.9	1.9	0.0	37	0.0
		Meghalaya	316	0	5.3	4.1	0.2	57	0.1
	Mizoram	79	2	1.8	1.3	0.4	9	0.0	
	Nagaland	130	3	2.1	2.0	0.1	15	0.0	
	Tripura	268	0	4.4	3.8	0.1	37	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	8.9	-7.7	-18.7
Day peak (MW)	636.6	-426.7	-925.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.4	-236.6	144.1	-72.2	0.0	-1.3
Actual(MU)	160.2	-254.0	159.9	-71.1	4.5	-0.5
O/D/U/D(MU)	-3.2	-17.4	15.7	1.1	4.5	0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5266	11587	7762	810	472	25897
State Sector	13130	15339	5910	2595	50	37024
Total	18396	26926	13672	3405	522	62920

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	435	1216	519	471	10	2650
Lignite	15	15	51	0	0	81
Hydro	187	33	61	53	4	338
Nuclear	28	31	37	0	0	96
Gas, Naptha & Diesel	23	49	15	0	30	117
RES (Wind, Solar, Biomass & Others)	59	83	161	1	0	304
Total	747	1426	844	525	44	3585

Share of RES in total generation (%)	7.94	5.81	19.06	0.19	0.11	8.48
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.74	10.30	30.61	10.27	10.34	20.58

H. Diversity Factor

All India Demand Diversity Factor	1.037
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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 : **20-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	0	536	0.0	6.7	-6.7
2		SASARAM-FATEHPUR	S/C	0	291	0.0	4.7	-4.7
3		GAYA-BALIA	S/C	0	380	0.0	5.0	-5.0
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	49	0.0	1.2	-1.2
6	400 kV	PUSAULI-VARANASI	S/C	0	90	0.0	1.0	-1.0
7		PUSAULI -ALLAHABAD	S/C	30	41	0.0	0.1	-0.1
8		MUZAFFARPUR-GORAKHPUR	D/C	55	780	0.0	9.6	-9.6
9		PATNA-BALIA	Q/C	0	835	0.0	14.0	-14.0
10		BIHARSHARIFF-BALIA	D/C	0	397	0.0	6.1	-6.1
11		MOTIHARI-GORAKHPUR	D/C	0	317	0.0	5.4	-5.4
12		BIHARSHARIFF-VARANASI	D/C	3	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	158	0.0	3.0	-3.0
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>0.6</b>	<b>56.8</b>	<b>-56.2</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1793	0	37.3	0.0	37.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	596	37	3.5	0.0	3.5
20		JHARSUGUDA-DURG	D/C	108	69	0.1	0.0	0.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	271	60	1.5	0.0	1.5
22		RANCHI-SIPAT	D/C	228	0	1.8	0.0	1.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	127	0.0	1.8	-1.8
24		BUDHIPADAR-KORBA	D/C	143	0	2.6	0.0	2.6
<b>ER-WR</b>						<b>46.8</b>	<b>1.8</b>	<b>45.0</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2093.0	0.0	43.1	-43.1
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.1	-16.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2449.0	0.0	48.5	-48.5
28	400 kV	TALCHER-I/C	D/C	327.0	657.0	0.0	4.8	-4.8
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>107.8</b>	<b>-107.8</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	338	315	0.8	0.0	1
31		ALIPURDUAR-BONGAIGAON	D/C	436	260	2.3	0.0	2
32	220 kV	ALIPURDUAR-SALAKATI	D/C	67	72	0.1	0.0	0
<b>ER-NER</b>						<b>3.3</b>	<b>0.0</b>	<b>3.3</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	653	6.6	0.0	6.6
<b>NER-NR</b>						<b>6.6</b>	<b>0.0</b>	<b>6.6</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	500	0.0	12.0	-12.0
35		V'CHAL B/B	D/C	243	0	6.0	0.0	6.0
36		APL -MHG	D/C	0	1361	0.0	30.6	-30.6
37	765 kV	GWALIOR-AGRA	D/C	0	2316	0.0	39.5	-39.5
38		PHAGI-GWALIOR	D/C	0	1090	0.0	18.1	-18.1
39		JABALPUR-ORAI	D/C	0	700	0.0	22.1	-22.1
40		GWALIOR-ORAI	S/C	467	0	9.5	0.0	9.5
41		SATNA-ORAI	S/C	0	1353	0.0	28.0	-28.0
42		CHITORGARH-BANASKANTHA	D/C	586	293	0.3	0.0	0.3
43		ZERDA-KANKROLI	S/C	230	8	3.1	0.0	3.1
44	400 kV	ZERDA -BHINMAL	S/C	149	114	0.6	0.0	0.6
45		V'CHAL -RIHAND	S/C	969	0	22.3	0.0	22.3
46		RAPP-SHUJALPUR	D/C	213	199	0	0	0
47	220 kV	BADOD-KOTA	S/C	53	51	0.0	0.4	-0.4
48		BADOD-MORAK	S/C	0	78	0.0	1.1	-1.1
49		MEHGAON-AURAIYA	S/C	41	12	0.3	0.0	0.3
50	132kV	MALANPUR-AURAIYA	S/C	13	42	0.0	0.3	-0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>42.1</b>	<b>152.5</b>	<b>-110.4</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	478	0.0	11.2	-11.2
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2287	0.0	42.3	-42.3
55		WARDHA-NIZAMABAD	D/C	0	2238	0.0	47.0	-47.0
56	400 kV	KOLHAPUR-KUDGI	D/C	323	173	1.7	0.0	1.7
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>3.0</b>	<b>100.5</b>	<b>-97.6</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>8.9</b>
61		NEPAL						<b>-7.7</b>
62		BANGLADESH						<b>-18.7</b>