



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: 17<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., डोंगतेह, 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 16.04.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<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

17-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	38579	46137	45877	21009	2322	153924
Peak Shortage (MW)	452	0	0	0	191	643
Energy Met (MU)	830	1159	1095	458	38	3581
Hydro Gen (MU)	207	29	81	55	6	377
Wind Gen (MU)	24	63	35	-----	-----	122
Solar Gen (MU)*	16.87	17.66	87.23	1.96	0.03	124
Energy Shortage (MU)	10.1	0.0	0.0	0.0	1.9	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	39170 19:27	52374 11:24	48572 15:39	21443 00:19	2330 19:01	156659 00:00

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	0.053	0.00	0.98	6.83	7.81	63.50	28.69

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	5464	0	95.9	40.9	-4.0	221	0.0
	Haryana	5566	0	95.5	81.1	-3.7	298	0.0
	Rajasthan	8398	0	159.2	33.8	-5.6	341	0.0
	Delhi	4472	0	89.2	75.2	-1.8	145	0.1
	UP	15134	0	284.6	126.7	-1.0	469	0.0
	Uttarakhand	1764	0	37.5	15.8	-0.3	170	0.0
	HP	1188	0	25.3	8.3	-0.8	439	0.0
	J&K	1865	466	39.3	30.6	-1.7	259	10.0
WR	Chandigarh	212	0	4.0	4.7	-0.7	14	0.0
	Chhattisgarh	4514	0	100.0	46.5	-3.4	737	0.0
	Gujarat	16656	0	359.3	103.2	4.5	911	0.0
	MP	8486	0	176.6	81.9	-3.1	688	0.0
	Maharashtra	21896	0	478.3	146.9	-0.6	864	0.0
	Goa	540	0	14.0	11.9	1.9	35	0.0
	DD	339	0	7.6	7.2	0.4	41	0.0
	DNH	807	0	18.9	18.6	0.3	73	0.0
SR	Essar steel	214	0	4.2	4.7	-0.5	277	0.0
	Andhra Pradesh	8920	0	193.9	67.9	0.8	442	0.0
	Telangana	8820	0	193.8	69.0	-0.7	455	0.0
	Karnataka	12354	0	249.3	80.2	0.5	498	0.0
	Kerala	4197	0	87.3	60.3	1.3	193	0.0
	Tamil Nadu	16040	0	362.1	192.1	0.9	496	0.0
	Pondy	407	0	8.7	9.0	-0.3	47	0.0
	ER	Bihar	4661	0	88.5	83.3	1.0	100
DVC		3292	0	69.6	-43.3	0.5	300	0.0
Jharkhand		1171	0	26.6	17.4	-1.0	125	0.0
Odisha		4554	0	93.8	33.9	2.2	350	0.0
West Bengal		8860	0	178.0	59.9	0.4	250	0.0
Sikkim		92	0	1.2	1.5	-0.2	20	0.0
NER	Arunachal Pradesh	117	2	2.1	2.6	-0.6	15	0.0
	Assam	1320	110	20.4	16.3	-0.1	164	1.5
	Manipur	140	3	2.1	2.2	-0.1	39	0.0
	Meghalaya	318	30	5.3	4.1	0.0	39	0.3
	Mizoram	91	1	1.9	1.5	0.2	10	0.0
	Nagaland	120	2	2.1	2.1	0.0	7	0.0
	Tripura	278	0	4.6	4.0	0.2	60	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.2	-6.4	-23.6
Day peak (MW)	697.2	-365.3	-1145.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	130.8	-230.3	139.4	-40.2	0.3	0.1
Actual(MU)	86.9	-234.0	166.5	-23.4	-1.2	-5.2
O/D/U/D(MU)	-43.9	-3.7	27.1	16.8	-1.6	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4775	12048	6712	600	486	24621
State Sector	14525	14079	4610	3175	50	36439
Total	19300	26127	11322	3775	536	61059

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	412	1192	589	454	10	2657
Lignite	13	13	57	0	0	83
Hydro	207	29	81	55	6	377
Nuclear	27	28	37	0	0	92
Gas, Naptha & Diesel	31	59	16	0	29	135
RES (Wind, Solar, Biomass & Others)	75	85	160	2	0	321
Total	766	1406	939	510	44	3666

Share of RES in total generation (%)	9.74	6.05	16.99	0.39	0.07	8.76
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	40.34	10.10	29.53	11.09	12.88	21.57

H. Diversity Factor

All India Demand Diversity Factor	1.046
-----------------------------------	-------

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 : 17-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	217	182	0.0	1.1	-1.1
2		SASARAM-FATEHPUR	S/C	120	212	0.0	1.1	-1.1
3		GAYA-BALIA	S/C	0	170	0.0	2.6	-2.6
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	49	0.0	1.3	-1.3
6	400 kV	PUSAULI-VARANASI	S/C	0	84	0.0	1.3	-1.3
7		PUSAULI -ALLAHABAD	S/C	26	35	0.2	0.0	0.2
8		MUZAFFARPUR-GORAKHPUR	D/C	126	716	0.0	7.7	-7.7
9		PATNA-BALIA	Q/C	15	597	0.0	7.8	-7.8
10		BIHARSHARIFF-BALIA	D/C	9	236	0.0	2.9	-2.9
11		MOTIHARI-GORAKHPUR	D/C	0	246	0.0	3.7	-3.7
12		BIHARSHARIFF-VARANASI	D/C	5	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	180	0.0	3.4	-3.4
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	23	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	2	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.8</b>	<b>32.9</b>	<b>-32.1</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	2420	0	42.0	0.0	42.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	599	143	5.2	0.0	5.2
20		JHARSUGUDA-DURG	D/C	220	68	1.2	0.0	1.2
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	298	49	2.4	0.0	2.4
22		RANCHI-SIPAT	D/C	257	7	2.4	0.0	2.4
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	103	0.0	1.5	-1.5
24		BUDHIPADAR-KORBA	D/C	194	0	3.3	0.0	3.3
<b>ER-WR</b>						<b>56.5</b>	<b>1.5</b>	<b>55.0</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1980.0	0.0	37.6	-37.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	748.0	0.0	17.4	-17.4
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2455.0	0.0	51.2	-51.2
28	400 kV	TALCHER-I/C	D/C	0.0	850.0	0.0	9.4	-9.4
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>106.2</b>	<b>-106.2</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	416	0	6.6	0.0	7
31		ALIPURDUAR-BONGAIGAON	D/C	512	0	8.5	0.0	8
32	220 kV	ALIPURDUAR-SALAKATI	D/C	94	0	1.4	0.0	1
<b>ER-NER</b>						<b>16.4</b>	<b>0.0</b>	<b>16.4</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	654	0	16.0	0.0	16.0
<b>NER-NR</b>						<b>16.0</b>	<b>0.0</b>	<b>16.0</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1301	0.0	20.7	-20.7
35		V'CHAL B/B	D/C	242	0	6.0	0.0	6.0
36		APL -MHG	D/C	0	1310	0.0	29.2	-29.2
37	765 kV	GWALIOR-AGRA	D/C	0	1653	0.0	29.1	-29.1
38		PHAGI-GWALIOR	D/C	56	698	0.0	7.9	-7.9
39		JABALPUR-ORAI	D/C	0	378	0.0	11.8	-11.8
40		GWALIOR-ORAI	S/C	448	0	7.2	0.0	7.2
41		SATNA-ORAI	S/C	0	1099	0.0	23.3	-23.3
42		CHITORGARH-BANASKANTHA	D/C	692	525	4.3	0.0	4.3
43		ZERDA-KANKROLI	S/C	283	0	4.1	0.0	4.1
44	400 kV	ZERDA -BHINMAL	S/C	203	21	2.4	0.0	2.4
45		V'CHAL -RIHAND	S/C	967	0	21.2	0.0	21.2
46	220 kV	RAPP-SHUJALPUR	D/C	322	0	2	0	2
47		BADOD-KOTA	S/C	72	5	0.5	0.1	0.4
48		BADOD-MORAK	S/C	95	61	0.5	0.2	0.2
49		MEHGAON-AURAIYA	S/C	54	43	0.4	0.1	0.3
50	132kV	MALANPUR-AURAIYA	S/C	24	44	0.1	0.2	-0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>48.5</b>	<b>122.6</b>	<b>-74.2</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	495	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	2643	0.0	48.4	-48.4
55		WARDHA-NIZAMABAD	D/C	0	2491	0.0	49.0	-49.0
56	400 kV	KOLHAPUR-KUDGI	D/C	465	112	4.0	0.0	4.0
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	66	1.4	0.0	1.4
<b>WR-SR</b>						<b>5.4</b>	<b>108.8</b>	<b>-103.4</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>10.2</b>
61		NEPAL						<b>-6.4</b>
62		BANGLADESH						<b>-23.6</b>