



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: 24<sup>th</sup> Mar 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 23.03.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-मार्च-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 23<sup>rd</sup> March 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

24-Mar-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	40778	47813	46483	19569	2396	157039
Peak Shortage (MW)	1064	0	0	0	51	1115
Energy Met (MU)	874	1129	1115	389	40	3547
Hydro Gen (MU)	144	27	77	35	4	286
Wind Gen (MU)	24	40	26	-----	-----	89
Solar Gen (MU)*	23.54	25.6	80.60	1.16	0.02	131
Energy Shortage (MU)	10.2	0.3	0.0	0.0	1.8	12.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	40955 18:57	50849 11:01	48665 14:57	19983 19:31	2365 18:18	159217 19:27

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	0.033	0.00	0.09	5.93	6.02	79.27	14.71

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	6110	0	119.6	47.3	-2.3	172	0.0	
	Haryana	5740	0	114.1	71.3	-0.2	402	0.0	
	Rajasthan	9860	0	208.2	65.8	-2.2	676	0.0	
	Delhi	3071	0	57.9	45.8	0.0	227	0.0	
	UP	13967	540	267.7	111.3	3.7	491	0.0	
	Uttarakhand	1622	0	32.3	17.4	0.1	143	0.0	
	HP	1410	0	25.5	15.4	0.6	158	0.1	
	J&K	2206	551	45.7	38.3	-0.8	298	10.1	
WR	Chandigarh	170	0	2.9	3.1	-0.1	30	0.0	
	Chhattisgarh	3965	0	87.3	33.0	-1.6	647	0.3	
	Gujarat	15309	0	333.3	122.4	3.9	973	0.0	
	MP	9965	0	198.8	64.5	-0.7	490	0.0	
	Maharashtra	21151	0	460.8	144.0	-0.4	400	0.0	
	Goa	497	0	11.7	9.8	1.3	35	0.0	
	DD	331	0	7.3	6.7	0.6	47	0.0	
	DNH	765	0	17.4	17.2	0.2	62	0.0	
SR	Essar steel	574	0	12.5	12.6	-0.1	279	0.0	
	Andhra Pradesh	8877	0	200.7	69.4	0.5	407	0.0	
	Telangana	10023	0	224.6	109.4	0.2	486	0.0	
	Karnataka	12290	0	249.4	79.1	-0.2	410	0.0	
	Kerala	4017	0	82.6	59.0	0.7	126	0.0	
	Tamil Nadu	15602	0	349.2	194.6	1.6	495	0.0	
	Pondy	398	0	8.7	8.8	-0.1	35	0.0	
	ER	Bihar	4182	0	75.5	69.7	0.6	460	0.0
DVC		3185	0	65.4	-47.0	-0.2	396	0.0	
Jharkhand		1061	0	22.6	18.9	-0.6	169	0.0	
Odisha		4394	0	83.3	35.4	1.4	267	0.0	
West Bengal		7542	0	140.5	39.9	0.3	309	0.0	
Sikkim		95	0	1.2	1.4	-0.2	18	0.0	
NER		Arunachal Pradesh	106	5	2.0	1.8	0.2	32	0.0
		Assam	1421	23	21.7	17.1	0.6	150	1.7
	Manipur	171	2	2.5	2.2	0.3	23	0.0	
	Meghalaya	341	0	6.1	5.0	0.1	53	0.0	
	Mizoram	91	3	1.8	1.2	0.3	25	0.0	
	Nagaland	112	2	2.0	1.8	0.2	18	0.0	
	Tripura	234	6	4.0	2.9	0.2	46	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.0	-8.2	-22.2
Day peak (MW)	175.5	-465.5	-1136.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	164.4	-253.3	163.0	-75.6	1.0	-0.4
Actual(MU)	159.9	-260.7	169.4	-70.8	-0.4	-2.6
O/D/U/D(MU)	-4.5	-7.4	6.4	4.8	-1.5	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	7171	13523	5622	810	536	27663
State Sector	12300	14440	4900	3525	50	35215
Total	19471	27963	10522	4335	586	62877

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	430	1219	636	467	8	2760
Lignite	21	16	51	0	0	88
Hydro	144	27	77	35	4	286
Nuclear	23	31	32	0	0	86
Gas, Naptha & Diesel	24	38	18	0	30	111
RES (Wind, Solar, Biomass & Others)	76	71	144	1	0	292
Total	718	1401	958	503	42	3622

Share of RES in total generation (%)	10.60	5.03	15.01	0.24	0.05	8.05
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.83	9.19	26.34	7.10	9.19	18.32

H. Diversity Factor

All India Demand Diversity Factor	1.023
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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 : 24-Mar-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	552	0.0	8.8	-8.8
2		SASARAM-FATEHPUR	S/C	0	221	0.0	3.6	-3.6
3		GAYA-BALIA	S/C	0	299	0.0	5.1	-5.1
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	3	0	0.0	0.0	0.0
6	400 kV	PUSAULI-VARANASI	S/C	143	0	1.3	0.0	1.3
7		PUSAULI -ALLAHABAD	S/C	83	41	0.4	0.0	0.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	705	0.0	11.1	-11.1
9		PATNA-BALIA	Q/C	0	847	0.0	16.6	-16.6
10		BIHARSHARIFF-BALIA	D/C	0	333	0.0	6.3	-6.3
11		MOTIHARI-GORAKHPUR	D/C	0	336	0.0	6.6	-6.6
12		BIHARSHARIFF-VARANASI	D/C	3	257	0.0	3.8	-3.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	128	0.0	2.4	-2.4
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	1	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>2.2</b>	<b>64.1</b>	<b>-61.9</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	2018	0	31.8	0.0	31.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	281	187	0.7	0.0	0.7
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	171	115	0.5	0.0	0.5
21		RANCHI-SIPAT	D/C	158	10	1.1	0.0	1.1
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	72	0.0	0.8	-0.8
23		BUDHIPADAR-KORBA	D/C	138	0	2.3	0.0	2.3
<b>ER-WR</b>						<b>36.4</b>	<b>0.8</b>	<b>35.6</b>
<b>Import/Export of ER (With SR)</b>								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1939.0	0.0	38.7	-38.7
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	673.0	0.0	16.0	-16.0
26		TALCHER-KOLAR BIPOLE	D/C	0.0	2455.0	0.0	52.2	-52.2
27	400 kV	TALCHER-I/C	D/C	0.0	652.0	0.0	7.2	-7.2
28	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>106.8</b>	<b>-106.8</b>
<b>Import/Export of ER (With NER)</b>								
29	400 kV	BINAGURI-BONGAIGAON	D/C	416	0	6.3	0.0	6
30		ALIPURDUAR-BONGAIGAON	D/C	542	0	9.8	0.0	10
31	220 kV	ALIPURDUAR-SALAKATI	D/C	94	66	0.8	0.0	1
<b>ER-NER</b>						<b>17.0</b>	<b>0.0</b>	<b>17.0</b>
<b>Import/Export of NER (With NR)</b>								
32	HVDC	BISWANATH CHARIALI-AGRA	-	657	0	16.1	0.0	16.1
<b>NER-NR</b>						<b>16.1</b>	<b>0.0</b>	<b>16.1</b>
<b>Import/Export of WR (With NR)</b>								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	303	0.0	3.7	-3.7
34		V'CHAL B/B	D/C	243	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	1550	0.0	35.9	-35.9
36	765 kV	GWALIOR-AGRA	D/C	0	2242	0.0	40.8	-40.8
37		PHAGI-GWALIOR	D/C	0	1239	0.0	21.8	-21.8
38		JABALPUR-ORAI	D/C	0	605	0.0	23.0	-23.0
39		GWALIOR-ORAI	S/C	545	0	9.8	0.0	9.8
40		SATNA-ORAI	S/C	0	1287	0.0	27.2	-27.2
41		CHITORGARH-BANASKANTHA	D/C	0	299	0.0	1.1	0.0
42		ZERDA-KANKROLI	S/C	255	0	3.3	0.0	3.3
43	400 kV	ZERDA -BHINMAL	S/C	173	79	1.6	0.0	1.6
44		V'CHAL -RIHAND	S/C	970	0	21.6	0.0	21.6
45		RAPP-SHUJALPUR	D/C	0	304	0	2	-2
46	220 kV	BADOD-KOTA	S/C	0	68	0.0	1.5	-1.5
47		BADOD-MORAK	S/C	0	120	0.0	1.9	-1.9
48		MEHGAON-AURAIYA	S/C	96	0	1.4	0.0	1.4
49	MALANPUR-AURAIYA	S/C	44	5	0.4	0.0	0.4	
50	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>44.0</b>	<b>158.8</b>	<b>-113.7</b>
<b>Import/Export of WR (With SR)</b>								
51	HVDC LINK	BHADRAWATI B/B	-	0	995	0.0	23.7	-23.7
52		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
53	765 kV	SOLAPUR-RAICHUR	D/C	0	2381	0.0	43.1	-43.1
54		WARDHA-NIZAMABAD	D/C	0	2706	0.0	52.8	-52.8
55	400 kV	KOLHAPUR-KUDGI	D/C	680	0	10.0	0.0	10.0
56	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
57		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
58		XELDEM-AMBEWADI	S/C	0	59	1.1	0.0	1.1
<b>WR-SR</b>						<b>11.1</b>	<b>119.6</b>	<b>-108.5</b>
<b>TRANSNATIONAL EXCHANGE</b>								
59		BHUTAN						<b>2.0</b>
60		NEPAL						<b>-8.2</b>
61		BANGLADESH						<b>-22.2</b>