



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: 21st Mar 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., डोंगतेिह, 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 20.03.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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

21-Mar-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	40425	44818	47047	19856	2452	154598
Peak Shortage (MW)	531	20	0	0	55	606
Energy Met (MU)	920	1117	1121	403	42	3603
Hydro Gen (MU)	152	27	79	35	3	296
Wind Gen (MU)	14	52	30	-----	-----	95
Solar Gen (MU)*	24.82	25.59	76.48	1.09	0.04	128
Energy Shortage (MU)	10.7	0.3	0.0	0.0	0.8	11.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42737 08:43	53191 10:58	48650 09:45	20202 18:48	2469 18:11	160811 10:44

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	0.038	0.00	0.12	7.31	7.43	74.09	18.48

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	6104	0	124.2	60.6	-1.7	59	0.0
	Haryana	6047	0	121.7	77.5	-0.4	141	0.0
	Rajasthan	10534	0	211.7	64.0	-2.0	237	0.0
	Delhi	3505	0	60.1	44.5	-0.8	217	0.0
	UP	14452	0	295.8	126.7	-2.2	372	0.0
	Uttarakhand	1707	0	32.1	18.4	-0.2	81	0.0
	HP	1447	0	26.4	17.3	-0.4	128	0.0
	J&K	2146	536	45.2	37.8	-1.1	146	10.7
WR	Chandigarh	184	0	3.1	3.5	-0.4	11	0.0
	Chhattisgarh	3976	0	87.0	27.6	-1.8	353	0.2
	Gujarat	14760	0	326.8	104.4	1.5	605	0.0
	MP	10579	0	205.1	76.8	-0.2	571	0.0
	Maharashtra	21845	0	462.2	144.2	-0.8	655	0.0
	Goa	499	20	0.0	10.1	0.0	56	0.1
	DD	325	0	7.4	7.0	0.4	60	0.0
	DNH	781	0	18.2	18.3	0.0	98	0.0
	Essar steel	511	0	10.6	10.3	0.4	306	0.0
	SR	Andhra Pradesh	8879	0	197.8	68.6	0.1	427
Telangana		10303	0	231.2	101.9	0.1	480	0.0
Karnataka		12088	0	250.4	77.9	-0.7	526	0.0
Kerala		3973	0	83.3	57.7	0.7	280	0.0
Tamil Nadu		15681	0	349.7	193.6	-0.4	438	0.0
Pondy		396	0	8.4	8.6	-0.2	44	0.0
ER	Bihar	4133	0	76.4	70.1	0.7	460	0.0
	DVC	3086	0	67.5	-51.3	0.1	396	0.0
	Jharkhand	1085	0	23.6	17.5	0.3	169	0.0
	Odisha	4257	0	85.1	34.3	1.4	267	0.0
	West Bengal	7787	0	148.9	41.9	1.4	309	0.0
NER	Sikkim	92	0	1.2	1.5	-0.3	18	0.0
	Arunachal Pradesh	113	3	2.1	2.1	0.0	22	0.0
	Assam	1446	34	23.4	19.7	0.4	109	0.8
	Manipur	176	2	2.4	2.2	0.2	26	0.0
	Meghalaya	359	0	5.9	5.2	-0.1	50	0.0
	Mizoram	97	1	1.8	1.4	0.3	8	0.0
	Nagaland	125	2	2.2	1.8	0.2	21	0.0
Tripura	233	1	3.9	2.9	-0.3	32	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	-0.2	-7.2	-21.4
Day peak (MW)	60.1	-477.9	-1104.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	194.4	-277.5	159.3	-80.7	4.1	-0.4
Actual(MU)	204.1	-295.8	162.0	-68.3	2.0	4.0
O/D/U/D(MU)	9.7	-18.3	2.7	12.4	-2.2	4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5961	12892	5472	810	501	25636
State Sector	13105	14775	4190	3315	50	35435
Total	19066	27667	9662	4125	551	61070

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	496	1235	645	465	8	2848
Lignite	24	19	52	0	0	94
Hydro	152	27	79	35	3	296
Nuclear	23	30	32	0	0	85
Gas, Naptha & Diesel	28	41	16	0	29	114
RES (Wind, Solar, Biomass & Others)	71	82	146	1	0	300
Total	793	1433	970	502	40	3738

Share of RES in total generation (%)	8.93	5.73	15.08	0.23	0.10	8.03
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.97	9.71	26.47	7.27	8.50	18.23

H. Diversity Factor

All India Demand Diversity Factor	1.040
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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-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)
Import/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	0	664	0.0	9.2	-9.2
2		SASARAM-FATEHPUR	S/C	0	228	0.0	3.8	-3.8
3		GAYA-BALIA	S/C	0	408	0.0	7.2	-7.2
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	4	0	0.0	0.0	0.0
6	400 kV	PUSAULI-VARANASI	S/C	66	44	0.3	0.0	0.3
7		PUSAULI -ALLAHABAD	S/C	33	24	0.1	0.0	0.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	727	0.0	9.2	-9.2
9		PATNA-BALIA	Q/C	0	1011	0.0	17.9	-17.9
10		BIHARSHARIFF-BALIA	D/C	0	433	0.0	7.4	-7.4
11		MOTIHARI-GORAKHPUR	D/C	0	342	0.0	6.6	-6.6
12		BIHARSHARIFF-VARANASI	D/C	115	278	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	125	0.0	2.5	-2.5
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
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
ER-NR						1.1	66.1	-65.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	2453	0	37.4	0.0	37.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	552	138	3.0	0.0	3.0
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	390	134	2.2	0.0	2.2
21		RANCHI-SIPAT	D/C	252	0	3.1	0.0	3.1
22	220 kV	BUDHIPADAR-RAIGARH	S/C	31	113	0.0	1.6	-1.6
23		BUDHIPADAR-KORBA	D/C	195	0	3.4	0.0	3.4
ER-WR						49.1	1.6	47.5
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1957.0	0.0	38.8	-38.8
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	617.0	0.0	14.8	-14.8
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2457.0	0.0	51.4	-51.4
27	400 kV	TALCHER-I/C	D/C	0.0	987.0	0.0	7.8	-7.8
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	104.9	-104.9
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	329	127	3.5	0.0	4
30		ALIPURDUAR-BONGAIGAON	D/C	449	27	6.1	0.0	6
31	220 kV	ALIPURDUAR-SALAKATI	D/C	71	46	0.7	0.0	1
ER-NER						10.3	0.0	10.3
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	658	0	12.5	0.0	12.5
NER-NR						12.5	0.0	12.5
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	3008	0.0	24.9	-24.9
34		V'CHAL B/B	D/C	243	0	6.1	0.0	6.1
35		APL -MHG	D/C	0	1919	0.0	46.2	-46.2
36	765 kV	GWALIOR-AGRA	D/C	0	2280	0.0	41.6	-41.6
37		PHAGI-GWALIOR	D/C	0	1128	0.0	19.6	-19.6
38		JABALPUR-ORAI	D/C	0	688	0.0	26.0	-26.0
39		GWALIOR-ORAI	S/C	560	0	10.4	0.0	10.4
40		SATNA-ORAI	S/C	0	1321	0.0	28.0	-28.0
41		CHITORGARH-BANASKANTHA	D/C	0	0	0.9	0.0	0.9
42		ZERDA-KANKROLI	S/C	186	0	2.3	0.0	2.3
43	400 kV	ZERDA -BHINMAL	S/C	137	109	0.4	0.0	0.4
44		V'CHAL -RIHAND	S/C	961	0	21.5	0.0	21.5
45		RAPP-SHUJALPUR	D/C	76	206	1	0	1
46	220 kV	BADOD-KOTA	S/C	21	45	0.0	1.3	-1.3
47		BADOD-MORAK	S/C	0	124	0.0	1.8	-1.8
48		MEHGAON-AURAIYA	S/C	97	0	1.4	0.0	1.4
49	132kV	MALANPUR-AURAIYA	S/C	39	12	0.3	0.0	0.3
50		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.9	189.3	-145.4
Import/Export of WR (With SR)								
51	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.9	-23.9
52	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
53	765 kV	SOLAPUR-RAICHUR	D/C	0	2378	0.0	39.5	-39.5
54		WARDHA-NIZAMABAD	D/C	0	2569	0.0	47.9	-47.9
55	400 kV	KOLHAPUR-KUDGI	D/C	670	0	8.9	0.0	8.9
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	1	56	1.0	0.0	1.0
WR-SR						9.9	111.3	-101.4
TRANSNATIONAL EXCHANGE								
59		BHUTAN						-0.2
60		NEPAL						-7.2
61		BANGLADESH						-21.4