



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: 22nd 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 21.03.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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

22-Mar-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	36025	36992	45714	18217	2259	139207
Peak Shortage (MW)	437	0	0	0	69	506
Energy Met (MU)	811	956	1087	374	40	3268
Hydro Gen (MU)	157	21	68	30	4	280
Wind Gen (MU)	20	42	27	-----	-----	89
Solar Gen (MU)*	26.29	26.5	81.68	1.04	0.04	136
Energy Shortage (MU)	10.7	0.0	0.0	0.0	1.9	12.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	37402 19:30	44837 06:46	46546 09:47	18362 19:01	2286 18:13	144782 07:20

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	0.045	0.00	0.49	4.79	5.28	60.07	34.65

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	5605	0	115.1	46.7	-1.6	97	0.0
	Haryana	4979	0	98.4	62.4	0.1	193	0.0
	Rajasthan	9285	0	187.8	59.0	-1.1	140	0.0
	Delhi	2278	0	46.1	40.8	-0.1	197	0.0
	UP	14016	0	274.1	123.4	-0.4	564	0.0
	Uttarakhand	1140	0	23.1	10.3	-0.7	145	0.0
	HP	1027	0	18.9	9.6	-0.6	127	0.0
J&K	2137	534	45.4	38.8	-1.9	-	10.7	
Chandigarh	135	0	2.5	3.2	-0.7	6	0.0	
WR	Chhattisgarh	3192	0	69.9	13.9	-3.1	633	0.0
	Gujarat	12692	0	256.6	84.1	1.3	577	0.0
	MP	9293	0	186.3	59.6	-0.6	905	0.0
	Maharashtra	18331	0	406.8	118.0	-0.4	626	0.0
	Goa	499	0	9.3	8.1	0.5	63	0.0
	DD	291	0	4.1	3.9	0.2	45	0.0
	DNH	723	0	12.1	12.3	-0.2	64	0.0
Essar steel	500	0	10.6	10.1	0.5	303	0.0	
SR	Andhra Pradesh	8518	0	193.1	65.2	-0.1	585	0.0
	Telangana	9528	0	218.0	95.4	0.1	532	0.0
	Karnataka	12188	0	247.6	79.1	0.3	478	0.0
	Kerala	3993	0	81.4	59.2	0.8	240	0.0
	Tamil Nadu	15366	0	339.8	190.6	0.1	569	0.0
	Pondy	341	0	7.5	7.7	-0.2	30	0.0
ER	Bihar	3894	0	72.9	68.4	-0.6	460	0.0
	DVC	2909	0	59.4	-41.6	0.1	396	0.0
	Jharkhand	1000	0	21.9	16.9	-0.7	169	0.0
	Odisha	4219	0	81.6	34.9	2.4	267	0.0
	West Bengal	6981	0	136.7	37.4	0.5	309	0.0
Sikkim	77	0	1.0	1.4	-0.4	18	0.0	
NER	Arunachal Pradesh	92	2	2.0	2.1	-0.1	13	0.0
	Assam	1291	43	22.3	18.1	0.9	164	1.8
	Manipur	170	3	2.4	2.5	-0.1	21	0.0
	Meghalaya	335	0	5.8	4.8	0.0	44	0.0
	Mizoram	85	2	1.8	1.4	0.2	16	0.0
	Nagaland	110	2	2.1	1.8	0.1	16	0.0
	Tripura	241	3	3.8	3.1	-0.3	42	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.3	-6.1	-22.5
Day peak (MW)	91.3	-391.0	-1135.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.6	-263.2	170.9	-54.0	2.7	-0.1
Actual(MU)	135.4	-276.3	174.0	-44.8	1.2	-10.5
O/D/U/D(MU)	-8.2	-13.1	3.1	9.3	-1.5	-10.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5961	13548	5272	810	536	26127
State Sector	11555	14702	4790	3315	50	34412
Total	17516	28250	10062	4125	586	60538

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	405	1074	606	418	7	2511
Lignite	17	16	52	0	0	85
Hydro	157	22	68	30	4	280
Nuclear	22	31	32	0	0	85
Gas, Naptha & Diesel	17	34	17	0	30	97
RES (Wind, Solar, Biomass & Others)	78	73	148	1	0	300
Total	697	1250	922	449	40	3358

Share of RES in total generation (%)	11.22	5.85	16.04	0.24	0.10	8.94
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.88	10.02	26.88	6.88	9.22	19.79

H. Diversity Factor

All India Demand Diversity Factor	1.032
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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 : 22-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	58	353	0.0	5.9	-5.9
2		SASARAM-FATEHPUR	S/C	0	195	0.0	3.5	-3.5
3		GAYA-BALIA	S/C	0	243	0.0	4.7	-4.7
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	50	48	0.2	0.0	0.2
7		PUSAULI -ALLAHABAD	S/C	40	33	0.3	0.0	0.3
8		MUZAFFARPUR-GORAKHPUR	D/C	0	667	0.0	8.0	-8.0
9		PATNA-BALIA	Q/C	0	578	0.0	13.9	-13.9
10		BIHARSHARIFF-BALIA	D/C	0	265	0.0	4.2	-4.2
11		MOTIHARI-GORAKHPUR	D/C	0	308	0.0	5.4	-5.4
12		BIHARSHARIFF-VARANASI	D/C	138	169	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	113	0.0	2.3	-2.3
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	1	0	0.0	0.0	0.0
ER-NR						1.0	48.9	-47.9
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1917	0	36.5	0.0	36.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	615	10	5.2	0.0	5.2
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	301	0	3.7	0.0	3.7
21		RANCHI-SIPAT	D/C	258	0	3.4	0.0	3.4
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	80	0.0	1.1	-1.1
23		BUDHIPADAR-KORBA	D/C	216	0	4.0	0.0	4.0
ER-WR						52.7	1.1	51.7
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2008.0	0.0	40.0	-40.0
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	613.0	0.0	13.5	-13.5
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	50.7	-50.7
27	400 kV	TALCHER-I/C	D/C	0.0	672.0	0.0	10.3	-10.3
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	104.1	-104.1
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	352	0	5.5	0.0	5
30		ALIPURDUAR-BONGAIGAON	D/C	463	0	8.3	0.0	8
31	220 kV	ALIPURDUAR-SALAKATI	D/C	66	17	1.0	0.0	1
ER-NER						14.8	0.0	14.8
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	655	0	16.3	0.0	16.3
NER-NR						16.3	0.0	16.3
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	504	0.0	11.7	-11.7
34		V'CHAL B/B	D/C	243	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	1549	0.0	32.2	-32.2
36	765 kV	GWALIOR-AGRA	D/C	0	1920	0.0	36.4	-36.4
37		PHAGI-GWALIOR	D/C	0	1123	0.0	19.3	-19.3
38		JABALPUR-ORAI	D/C	0	574	0.0	21.7	-21.7
39		GWALIOR-ORAI	S/C	508	0	9.5	0.0	9.5
40		SATNA-ORAI	S/C	0	1171	0.0	25.2	-25.2
41		CHITORGARH-BANASKANTHA	D/C	0	0	0.0	0.8	0.8
42		ZERDA-KANKROLI	S/C	182	0	2.6	0.0	2.6
43	400 kV	ZERDA -BHINMAL	S/C	153	74	1.0	0.0	1.0
44		V'CHAL -RIHAND	S/C	958	0	19.8	0.0	19.8
45		RAPP-SHUJALPUR	D/C	0	246	0	1	-1
46	220 kV	BADOD-KOTA	S/C	3	62	0.0	1.6	-1.6
47		BADOD-MORAK	S/C	0	124	0.0	1.8	-1.8
48		MEHGAON-AURAIYA	S/C	92	0	1.5	0.0	1.5
49	132kV	MALANPUR-AURAIYA	S/C	38	13	0.4	0.0	0.4
50		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						40.7	152.0	-109.6
Import/Export of WR (With SR)								
51	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.8	-23.8
52	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
53	765 kV	SOLAPUR-RAICHUR	D/C	0	2268	0.0	44.8	-44.8
54		WARDHA-NIZAMABAD	D/C	0	2395	0.0	48.4	-48.4
55	400 kV	KOLHAPUR-KUDGI	D/C	372	0	4.6	0.0	4.6
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	50	0.7	0.0	0.7
WR-SR						5.4	117.0	-111.6
TRANSNATIONAL EXCHANGE								
59		BHUTAN						1.3
60		NEPAL						-6.1
61		BANGLADESH						-22.5