National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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 Feb 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., डोंगतिएह, 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 20.02.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-फ़रवरी-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 February 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-Feb-19**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43780	47308	45069	17442	2424	156023
Peak Shortage (MW)	624	0	83	0	41	748
Energy Met (MU)	893	1133	1038	351	41	3456
Hydro Gen (MU)	129	24	75	29	3	261
Wind Gen (MU)	15	25	71	----------	----------	110
Solar Gen (MU)*	14.62	23.66	75.50	1.04	0.04	115
Energy Shortage (MU)	11.4	0.0	0.0	0.0	0.4	11.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46969	54308	45635	18944	2612	157021
	18:44	09:37	09:44	18:49	19:02	18:54

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	0.049	0.00	0.02	7.99	8.01	66.79	25.20

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	5204	0	101.0	36.9	-1.3	60	0.0
	Haryana	6076	0	116.2	82.0	0.6	219	0.0
	Rajasthan	11786	0	231.1	66.4	0.9	292	0.0
	Delhi	3818	0	65.3	57.5	-0.2	237	0.0
	UP	14106	0	261.5	108.9	0.5	343	0.0
	Uttarakhand	2045	0	37.7	21.6	0.3	174	0.0
	HP	1537	14	29.0	21.9	0.3	160	0.1
	J&K	2497	624	47.6	42.5	-1.3	218	11.3
	Chandigarh	204	0	3.4	3.8	-0.3	6	0.0
WR	Chhattisgarh	3919	0	88.5	28.9	-0.8	247	0.0
	Gujarat	14970	0	329.9	108.8	1.1	476	0.0
	MP	12466	0	227.2	108.0	-0.8	587	0.0
	Maharashtra	20481	0	436.2	118.6	0.5	1177	0.0
	Goa	532	0	11.8	11.0	0.3	101	0.0
	DD	331	0	7.3	6.9	0.4	43	0.0
	DNH	783	0	18.4	18.3	0.1	51	0.0
	Essar steel	671	0	14.1	14.6	-0.4	200	0.0
SR	Andhra Pradesh	8683	0	187.7	65.5	0.4	464	0.0
	Telangana	9480	0	205.3	76.6	0.1	495	0.0
	Karnataka	11919	0	234.9	75.7	-0.8	498	0.0
	Kerala	3837	0	76.6	57.7	1.1	226	0.0
	Tamil Nadu	15265	0	326.0	162.7	-1.0	486	0.0
	Pondy	372	0	7.7	7.9	-0.2	36	0.0
ER	Bihar	3932	0	69.4	65.3	-1.4	460	0.0
	DVC	2945	0	64.8	-44.0	0.6	396	0.0
	Jharkhand	982	0	22.1	17.0	-0.5	169	0.0
	Odisha	3931	0	77.0	22.7	1.5	267	0.0
	West Bengal	6876	0	116.3	22.8	1.2	309	0.0
	Sikkim	101	0	1.0	1.5	-0.5	18	0.0
NER	Arunachal Pradesh	113	5	2.2	2.2	-0.1	24	0.0
	Assam	1458	20	22.2	17.5	1.1	184	0.3
	Manipur	180	3	2.9	2.6	0.2	49	0.0
	Meghalaya	365	0	6.5	5.1	0.0	37	0.0
	Mizoram	98	4	1.7	1.2	0.4	19	0.0
	Nagaland	124	3	2.1	1.9	0.1	21	0.0
	Tripura	229	6	3.8	1.5	0.5	55	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.1	-6.7	-19.4
Day peak (MW)	44.2	-260.0	-977.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.3	-221.9	126.6	-73.2	5.0	-0.2
Actual(MU)	159.9	-224.3	123.4	-69.7	7.7	-3.0
O/D/U/D(MU)	-3.4	-2.4	-3.1	3.5	2.7	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4911	14494	5122	2030	735	27292
State Sector	12415	15466	6320	4065	50	38316
Total	17326	29960	11442	6095	784	65608

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	493	1206	546	423	5	2673
Lignite	22	12	56	0	0	91
Hydro	129	25	75	29	3	261
Nuclear	24	31	36	0	0	90
Gas, Naptha & Diesel	24	39	18	0	29	111
RES (Wind, Solar, Biomass & Others)	60	52	187	1	0	299
Total	753	1364	918	452	38	3525

Share of RES in total generation (%)	7.91	3.78	20.36	0.24	0.11	8.49
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.22	7.87	32.42	6.55	8.72	18.45

H. Diversity Factor

All India Demand Diversity Factor	1.073

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **21-Feb-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	387	0.0	6.4	-6.4
2		SASARAM-FATEHPUR	S/C	0	214	0.0	3.8	-3.8
3		GAYA-BALIA	S/C	0	410	0.0	8.6	-8.6
4	**HVDC**	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	144	0.0	3.6	-3.6
6	**400 kV**	PUSAULI-VARANASI	S/C	0	112	0.0	2.4	-2.4
7		PUSAULI -ALLAHABAD	S/C	0	73	0.0	1.2	-1.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	576	0.0	8.1	-8.1
9		PATNA-BALIA	Q/C	0	664	0.0	12.5	-12.5
10		BIHARSHARIFF-BALIA	D/C	0	297	0.0	6.2	-6.2
11		MOTIHARI-GORAKHPUR	D/C	0	284	0.0	5.2	-5.2
12		BIHARSHARIFF-VARANASI	D/C	0	184	0.0	1.6	-1.6
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	142	0.0	2.8	-2.8
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
					ER-NR	**0.5**	**62.3**	**-61.7**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1679	0	32.9	0.0	32.9
19		NEW RANCHI-DHARAMJAIGARH	D/C	262	190	3.5	0.0	3.5
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	112	28	2.1	0.0	2.1
21		RANCHI-SIPAT	D/C	147	9	2.5	0.0	2.5
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	0	93	0.0	1.1	-1.1
23		BUDHIPADAR-KORBA	D/C	181	0	3.8	0.0	3.8
					ER-WR	**44.9**	**1.1**	**43.8**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1645.0	0.0	30.6	-30.6
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	0.0	688.0	0.0	15.8	-15.8
26		TALCHER-KOLAR BIPOLE	D/C	0.0	2461.0	0.0	46.3	-46.3
27	**400 kV**	TALCHER-I/C	D/C	5.0	880.0	0.0	15.4	-15.4
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**92.7**	**-92.7**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	233	29	2.0	0.0	2
30		ALIPURDUAR-BONGAIGAON	D/C	329	0	4.0	0.0	4
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	44	30	0.0	0.3	0
					ER-NER	**6.0**	**0.3**	**5.7**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	663	0	14.7	0.0	14.7
					NER-NR	**14.7**	**0.0**	**14.7**
Import/Export of WR (With NR)								
33	**HVDC**	CHAMPA-KURUKSHETRA	D/C	0	802	0.0	19.1	-19.1
34		V'CHAL B/B	D/C	243	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	883	0.0	19.7	-19.7
36	**765 kV**	GWALIOR-AGRA	D/C	0	2725	0.0	46.5	-46.5
37		PHAGI-GWALIOR	D/C	0	1136	0.0	18.9	-18.9
38		JABALPUR-ORAI	D/C	0	795	0.0	26.2	-26.2
39		GWALIOR-ORAI	S/C	646	0	12.0	0.0	12.0
40		SATNA-ORAI	S/C	0	1396	0.0	27.4	-27.4
41	**400 kV**	ZERDA-KANKROLI	S/C	161	94	0.5	0.0	0.5
42		ZERDA -BHINMAL	S/C	148	288	0.0	2.5	-2.5
43		V'CHAL -RIHAND	S/C	968	0	21.8	0.0	21.8
44		RAPP-SHUJALPUR	D/C	114	263	0	1	-1
45	**220 kV**	BADOD-KOTA	S/C	4	40	0.1	1.2	-1.1
46		BADOD-MORAK	S/C	4	143	0.0	1.6	-1.6
47		MEHGAON-AURAIYA	S/C	95	8	1.0	0.0	1.0
48		MALANPUR-AURAIYA	S/C	41	40	0.2	0.1	0.0
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**41.5**	**164.3**	**-122.8**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	995	0.0	22.5	-22.5
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	128	1853	0.0	23.7	-23.7
53		WARDHA-NIZAMABAD	D/C	0	1963	0.0	28.9	-28.9
54	**400 kV**	KOLHAPUR-KUDGI	D/C	1051	0	14.9	0.0	14.9
55	**220 kV**	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56		PONDA-AMBEWADI	S/C	1	70	0.0	0.9	-0.9
57		XELDEM-AMBEWADI	S/C	1	51	0.7	0.0	0.7
					WR-SR	**15.6**	**76.0**	**-60.4**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**2.1**
59		NEPAL						**-6.7**
60		BANGLADESH						**-19.4**