



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: 01st Feb 2020

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. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, 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 31.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-जनवरी-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 31st Jan 2020, 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

1-Feb-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47320	47529	42519	17873	2423	157664
Peak Shortage (MW)	614	0	0	0	28	642
Energy Met (MU)	963	1164	1052	361	41	3580
Hydro Gen (MU)	129	45	93	33	5	305
Wind Gen (MU)	10	33	19	-----	-----	62
Solar Gen (MU)*	38.36	27.00	95.62	1.55	0.20	163
Energy Shortage (MU)	12.9	0.0	0.0	0.0	1.2	14.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48503 09:44	56653 11:02	48497 11:31	18443 18:41	2469 18:45	170721 09:45

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	0.031	0.00	0.00	4.41	4.41	79.43	16.16

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	5790	0	111.2	53.2	-1.0	102	0.0
	Haryana	6402	0	125.6	89.1	0.6	773	0.3
	Rajasthan	13835	0	243.6	65.4	1.1	801	0.0
	Delhi	4401	0	73.0	57.5	-1.1	218	0.0
	UP	15359	0	282.1	112.8	0.4	740	1.0
	Uttarakhand	2169	0	39.6	27.3	-0.2	184	0.0
	HP	1786	0	31.8	24.9	-0.2	132	0.0
	J&K(UT) and Ladakh(UT)	2456	614	51.3	46.7	-0.7	415	11.5
	Chandigarh	270	0	4.4	4.0	0.3	60	0.0
WR	Chhattisgarh	3802	0	81.9	37.8	-1.6	244	0.0
	Gujarat	15798	0	330.4	79.5	3.8	620	0.0
	MP	14424	0	262.8	139.3	-3.4	539	0.0
	Maharashtra	22324	0	448.3	139.9	-2.3	563	0.0
	Goa	470	0	9.2	9.9	-0.9	21	0.0
	DD	325	0	7.3	7.1	0.2	36	0.0
	DNH	783	0	18.4	18.2	0.2	73	0.0
	Essar steel	683	0	5.4	5.6	-0.2	226	0.0
	Andhra Pradesh	9480	0	190.0	70.7	1.0	619	0.0
SR	Telangana	11226	0	224.4	116.3	-0.2	516	0.0
	Karnataka	12685	0	240.7	64.2	0.7	646	0.0
	Kerala	3669	0	75.0	54.4	1.1	233	0.0
	Tamil Nadu	14558	0	314.3	165.1	0.9	484	0.0
	Pondy	365	0	7.4	7.6	-0.2	25	0.0
	Bihar	4280	0	78.9	75.6	1.7	250	0.0
ER	DVC	3137	0	65.5	-36.4	-1.0	200	0.0
	Jharkhand	1249	0	25.6	18.2	0.0	100	0.0
	Odisha	3694	0	70.1	2.9	-0.5	150	0.0
	West Bengal	6370	0	118.9	30.1	-1.8	200	0.0
	Sikkim	129	0	2.0	1.9	0.1	40	0.0
	Arunachal Pradesh	126	2	2.5	2.1	0.3	36	0.0
NER	Assam	1347	20	22.0	18.3	1.1	103	0.8
	Manipur	217	1	2.6	3.1	-0.5	30	0.0
	Meghalaya	369	0	6.4	6.0	-0.2	31	0.3
	Mizoram	106	1	1.8	1.7	-0.2	23	0.0
	Nagaland	125	2	2.1	2.0	-0.1	14	0.1
	Tripura	222	1	3.9	1.6	0.1	24	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.7	-10.6	-7.5
Day peak (MW)	520.5	-544.0	-546.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	221.9	-255.1	123.4	-96.8	6.3	-0.3
Actual(MU)	211.7	-270.0	145.1	-95.6	6.9	-1.8
O/D/U/D(MU)	-10.2	-14.9	21.8	1.1	0.6	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5797	14033	7022	2220	647	29718
State Sector	12300	16015	5970	3910	11	38206
Total	18097	30048	12992	6130	658	67924

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	489	1235	560	448	11	2744
Lignite	27	15	49	0	0	91
Hydro	129	45	93	33	5	305
Nuclear	24	33	40	0	0	97
Gas, Naptha & Diesel	26	35	18	0	23	102
RES (Wind, Solar, Biomass & Others)	77	69	150	2	0	299
Total	773	1433	910	483	39	3638

Share of RES in total generation (%)	10.01	4.84	16.50	0.33	0.51	8.21
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.85	10.31	31.03	7.25	12.63	19.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.080

Diversity factor = Sum of regional or state-wise 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 :	1-Feb-20
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	299	0.0	7.1	-7.1	
1	765kV	GAYA-VARANASI	D/C	0	707	0.0	8.5	-8.5	
2		SASARAM-FATEHPUR	S/C	34	344	0.0	4.4	-4.4	
3		GAYA-BALIA	S/C	0	516	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	229	0.0	4.4	-4.4	
7		PUSAULI -ALLAHABAD	S/C	0	152	0.0	2.5	-2.5	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	620	0.0	9.0	-9.0	
9		PATNA-BALIA	Q/C	0	740	0.0	11.3	-11.3	
10		BIHARSHARIFF-BALIA	D/C	0	387	0.0	5.9	-5.9	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	2.5	-2.5	
12		BIHARSHARIFF-VARANASI	D/C	93	294	0.0	2.2	-2.2	
13		220 kV	PUSAULI-SAHUPURI	S/C	41	46	0.0	0.0	0.0
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	0	0	0.0	0.0	0.0	
						ER-NR	0.7	65.9	-65.2
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1681	0	20.2	0.0	20.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	485	300	3.3	0.0	3.3	
20		JHARSUGUDA-DURG	D/C	74	224	0.0	1.4	-1.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	130	408	0.0	3.6	-3.6	
22		RANCHI-SIPAT	D/C	185	97	1.4	0.0	1.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	101	0.0	1.3	-1.3	
24		BUDHIPADAR-KORBA	D/C	178	0	2.4	0.0	2.4	
						ER-WR	27.2	6.3	20.9
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	585.0	0.0	11.4	-11.4	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2471.0	0.0	47.9	-47.9	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2502.0	0.0	46.7	-46.7	
28	400 kV	TALCHER-I/C	D/C	433.0	972.0	0.0	5.5	-5.5	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	106.0	-106.0
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	229	98	1.5	0.0	2	
31		ALIPURDUAR-BONGAIGAON	D/C	345	94	2.6	0.0	3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	76	18	0.6	0.0	1	
						ER-NER	4.7	0.0	4.7
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	473	0	12.2	0.0	12.2	
						NER-NR	12.2	0.0	12.2
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2504	0.0	29.4	-29.4	
35		V'CHAL B/B	D/C	448	0	11.3	0.0	11.3	
36	765 kV	APL -MHG	D/C	0	2286	0.0	39.9	-39.9	
37		GWALIOR-AGRA	D/C	0	2650	0.0	47.9	-47.9	
38		PHAGI-GWALIOR	D/C	0	1539	0.0	22.2	-22.2	
39		JABALPUR-ORAI	D/C	0	949	0.0	32.4	-32.4	
40		GWALIOR-ORAI	S/C	736	0	11.7	0.0	11.7	
41		SATNA-ORAI	S/C	0	1466	0.0	30.2	-30.2	
42		CHITTORGARH-BANASKANTHA	D/C	293	827	0.0	6.5	-6.5	
43		ZERDA-KANKROLI	S/C	168	130	0.2	0.0	0.2	
44	400 kV	ZERDA -BHINMAL	S/C	200	336	0.0	1.8	-1.8	
45		V'CHAL -RIHAND	S/C	968	0	22.6	0.0	22.6	
46		RAPP-SHUJALPUR	D/C	164	350	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	16	86	0.4	0.5	-0.1	
48		BHANPURA-MORAK	S/C	35	128	0.1	1.2	-1.1	
49		MEHGAON-AURAIYA	S/C	98	0	1.1	0.0	1.1	
50		MALANPUR-AURAIYA	S/C	48	24	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	47.6	213.5	-165.9
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1009	0.0	24.0	-24.0	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	316	1832	0.0	24.0	-24.0	
55		WARDHA-NIZAMABAD	D/C	0	2331	0.0	40.3	-40.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	547	153	3.2	0.0	3.2	
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	100	1.7	0.0	1.7	
						WR-SR	5.0	88.4	-83.4
TRANSNATIONAL EXCHANGE									
60		BHUTAN						2.7	
61		NEPAL						-10.6	
62		BANGLADESH						-7.5	