



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: 20th 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 19.02.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-फरवरी-2020 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 19th Feb 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 20-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)	45229	51366	44640	18160	2434	161829
Peak Shortage (MW)	556	0	0	0	32	588
Energy Met (MU)	985	1261	1106	364	41	3757
Hydro Gen (MU)	143	42	89	35	5	314
Wind Gen (MU)	21	19	46	-----	-----	86
Solar Gen (MU)*	35.44	25.50	102.83	1.55	0.03	165
Energy Shortage (MU)	12.4	0.0	0.0	0.0	0.9	13.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51218 07:49	58699 11:03	50932 08:15	18833 19:01	2498 18:06	176054 07:46

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	0.042	0.00	0.80	5.28	6.08	73.74	20.19

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	6173	0	120.4	79.8	-2.3	66	0.0
	Haryana	6987	0	138.8	89.3	-0.6	236	0.0
	Rajasthan	13629	0	250.6	76.5	-4.2	339	0.0
	Delhi	3827	0	65.1	48.9	-0.7	223	0.0
	UP	14940	0	291.2	127.4	0.2	847	0.3
	Uttarakhand	1989	0	35.7	18.2	-1.1	78	0.0
	HP	1245	0	28.0	20.0	0.7	126	0.0
	J&K(UT) and Ladakh(UT)	2296	574	51.6	40.3	-0.8	229	12.1
	Chandigarh	233	0	3.7	3.5	0.2	24	0.0
WR	Chhattisgarh	3937	0	86.5	38.4	-0.9	186	0.0
	Gujarat	16063	0	356.3	96.6	0.0	995	0.0
	MP	14263	0	272.3	136.4	-2.6	597	0.0
	Maharashtra	24550	0	497.9	146.8	-0.6	524	0.0
	Goa	516	0	10.7	10.3	-0.1	43	0.0
	DD	345	0	7.6	7.0	0.6	56	0.0
	DNH	801	0	18.7	18.8	-0.1	34	0.0
	Essar steel	782	0	10.7	11.2	-0.5	224	0.0
	Andhra Pradesh	9817	0	198.1	66.6	-0.2	436	0.0
SR	Telangana	12976	0	254.3	137.4	1.9	387	0.0
	Karnataka	12797	0	247.8	94.1	-0.1	833	0.0
	Kerala	3732	0	76.5	62.1	1.5	183	0.0
	Tamil Nadu	14819	0	321.5	170.4	0.2	472	0.0
	Pondy	375	0	7.5	7.7	-0.1	31	0.0
	Bihar	4179	0	76.1	73.0	1.0	93	0.0
ER	DVC	3112	0	65.1	-38.3	0.1	282	0.0
	Jharkhand	1276	0	23.6	18.6	-0.4	221	0.0
	Odisha	3840	0	73.3	-2.6	0.0	384	0.0
	West Bengal	6644	0	124.2	28.9	-0.7	187	0.0
	Sikkim	130	0	1.9	1.8	0.1	38	0.0
	Arunachal Pradesh	122	2	2.2	2.1	0.0	32	0.0
NER	Assam	1368	18	22.4	19.0	0.6	178	0.6
	Manipur	208	3	2.7	2.8	-0.1	34	0.0
	Meghalaya	375	0	6.3	4.8	0.0	21	0.2
	Mizoram	98	1	1.6	1.6	0.0	28	0.0
	Nagaland	128	2	2.2	1.9	0.2	57	0.0
	Tripura	218	2	3.5	1.2	1.0	124	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.1	-10.9	-13.3
Day peak (MW)	468.2	-534.4	-889.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.6	-260.1	139.4	-119.4	9.0	0.6
Actual(MU)	216.3	-258.3	152.1	-122.7	14.0	1.5
O/D/U/D(MU)	-15.3	1.8	12.7	-3.3	5.0	0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5893	13553	5112	1355	1146	27059
State Sector	13075	13141	8315	4740	11	39282
Total	18968	26693	13427	6095	1157	66340

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	477	1329	570	481	12	2869
Lignite	25	17	50	0	0	92
Hydro	143	42	89	35	5	314
Nuclear	21	37	41	0	0	99
Gas, Naptha & Diesel	37	63	16	0	14	129
RES (Wind, Solar, Biomass & Others)	84	54	186	2	0	326
Total	786	1541	953	518	32	3829

Share of RES in total generation (%)	10.66	3.50	19.55	0.31	0.09	8.50
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.47	8.58	33.26	7.11	15.70	19.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.072

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 : 20-Feb-20

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)									
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	379	0.0	7.9	-7.9	
1	765kV	GAYA-VARANASI	D/C	0	1027	0.0	12.8	-12.8	
2		SASARAM-FATEHPUR	S/C	32	255	0.0	2.7	-2.7	
3		GAYA-BALIA	S/C	0	475	0.0	4.2	-4.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	259	0.0	5.1	-5.1	
7		PUSAULI -ALLAHABAD	S/C	0	162	0.0	2.5	-2.5	
8		MUZAFFARPUR-GORAKHPUR	D/C	162	401	0.0	2.7	-2.7	
9		PATNA-BALIA	Q/C	0	821	0.0	11.6	-11.6	
10		BIHARSHARIFF-BALIA	D/C	0	395	0.0	5.5	-5.5	
11		MOTIHARI-GORAKHPUR	D/C	0	508	0.0	9.2	-9.2	
12		BIHARSHARIFF-VARANASI	D/C	111	215	0.0	1.0	-1.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	169	0.0	3.1	-3.1
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	0	0	0.0	0.0	0.0	
ER-NR						0.6	68.3	-67.7	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1609	0	24.5	0.0	24.5	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1046	12	10.4	0.0	10.4	
20		JHARSUGUDA-DURG	D/C	152	122	0.0	0.3	-0.3	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	22	405	0.0	5.0	-5.0	
22		RANCHI-SIPAT	D/C	331	26	2.3	0.0	2.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	94	0	1.2	0.0	1.2	
ER-WR						38.4	5.3	33.1	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	670.0	0.0	16.3	-16.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2450.0	0.0	47.8	-47.8	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2864.0	0.0	52.3	-52.3	
28	400 kV	TALCHER-I/C	D/C	0.0	645.0	0.0	3.4	-3.4	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	116.4	-116.4	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	580	0.0	8.8	-9	
31		ALIPURDUAR-BONGAIGAON	D/C	0	841	0.0	13.4	-13	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	161	0.0	2.3	-2	
ER-NER						0.0	24.5	-24.5	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	9.6	-9.6	
NER-NR						0.0	9.6	-9.6	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	0.0	0.0	
35		V'CHAL B/B	D/C	448	487	3.7	2.6	1.1	
36		APL -MHG	D/C	0	1918	0.0	33.5	-33.5	
37	765 kV	GWALIOR-AGRA	D/C	0	2685	0.0	46.6	-46.6	
38		PHAGI-GWALIOR	D/C	0	1753	0.0	26.4	-26.4	
39		JABALPUR-ORAI	D/C	0	1040	0.0	35.8	-35.8	
40		GWALIOR-ORAI	S/C	699	0	11.6	0.0	11.6	
41		SATNA-ORAI	S/C	0	1429	0.0	29.7	-29.7	
42		CHITTORGARH-BANASKANTHA	D/C	196	986	0.0	6.2	-6.2	
43		ZERDA-KANKROLI	S/C	137	141	0.0	0.2	-0.2	
44	400 kV	ZERDA -BHINMAL	S/C	222	239	0.0	0.6	-0.6	
45		V'CHAL -RIHAND	S/C	984	0	22.8	0.0	22.8	
46		RAPP-SHUJALPUR	D/C	94	452	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	13	102	0.4	0.9	-0.5	
48		BHANPURA-MORAK	S/C	37	150	0.1	1.6	-1.5	
49		MEHGAON-AURAIYA	S/C	92	0	1.4	0.0	1.4	
50	132kV	MALANPUR-AURAIYA	S/C	48	25	0.5	0.0	0.5	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						40.6	186.0	-145.5	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	995	0.0	23.8	-23.8	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	395	2486	0.5	25.7	-25.2	
55		WARDHA-NIZAMABAD	D/C	0	3370	0.0	46.6	-46.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	999	0	14.2	0.0	14.2	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	68	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	98	1.9	0.0	1.9	
WR-SR						16.6	97.4	-80.9	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						1.1	
61		NEPAL						-10.9	
62		BANGLADESH						-13.3	