



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: 05th 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 04.02.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th Feb 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 5-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)	47447	48660	41794	18300	2438	158639
Peak Shortage (MW)	534	0	0	0	20	554
Energy Met (MU)	983	1182	1023	361	41	3590
Hydro Gen (MU)	128	50	80	29	4	292
Wind Gen (MU)	13	33	34	-----	-----	80
Solar Gen (MU)*	32.11	25.20	85.57	1.42	0.04	144
Energy Shortage (MU)	12.8	0.0	0.0	0.0	0.6	13.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49484 09:31	56543 09:36	47649 10:20	18327 18:37	2519 18:02	171085 09:32

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	0.064	0.16	2.31	13.32	15.80	73.40	10.80

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	5918	0	120.2	64.5	-1.1	39	0.0
	Haryana	6478	0	128.5	87.3	0.0	175	0.0
	Rajasthan	14088	0	249.0	97.2	3.0	472	0.0
	Delhi	4083	0	69.8	55.6	-1.3	211	0.0
	UP	15903	0	287.4	114.2	0.6	740	0.2
	Uttarakhand	2151	0	39.3	21.4	0.5	151	0.0
	HP	1737	0	30.7	23.7	-0.2	184	0.0
	J&K(UT) and Ladakh(UT)	2626	656	53.6	45.5	0.0	401	12.6
	Chandigarh	263	0	4.2	3.9	0.2	34	0.0
WR	Chhattisgarh	3753	0	77.7	32.8	-1.5	192	0.0
	Gujarat	15786	0	333.9	77.9	3.5	638	0.0
	MP	14329	0	265.0	140.6	-3.2	423	0.0
	Maharashtra	22722	0	464.5	139.3	-2.2	761	0.0
	Goa	481	0	10.0	9.8	-0.4	30	0.0
	DD	327	0	7.3	6.9	0.4	46	0.0
	DNH	766	0	18.0	18.1	-0.1	56	0.0
	Essar steel	809	0	5.7	5.7	0.0	277	0.0
	SR	Andhra Pradesh	8953	0	180.6	61.5	-1.8	497
Telangana		11110	0	215.2	105.6	-0.4	560	0.0
Karnataka		12369	0	233.9	67.8	-0.2	639	0.0
Kerala		3660	0	74.3	55.9	0.9	342	0.0
Tamil Nadu		14330	0	311.3	161.9	-0.6	464	0.0
Pondy		370	0	7.3	7.6	-0.3	22	0.0
ER	Bihar	4423	0	77.8	73.5	-0.4	233	0.0
	DVC	3057	0	65.3	-38.0	-0.8	189	0.0
	Jharkhand	1342	0	25.2	18.8	-0.2	107	0.0
	Odisha	3841	0	69.9	-0.6	-1.1	237	0.0
	West Bengal	6444	0	121.4	27.9	-1.4	67	0.0
	Sikkim	124	0	1.9	1.8	0.1	21	0.0
NER	Arunachal Pradesh	125	1	2.2	2.3	-0.1	25	0.0
	Assam	1383	7	22.3	20.5	-0.3	107	0.3
	Manipur	216	1	2.7	3.1	-0.4	18	0.0
	Meghalaya	378	0	6.5	6.0	-0.3	57	0.3
	Mizoram	108	0	1.7	1.7	-0.3	18	0.0
	Nagaland	122	1	2.3	2.1	0.1	16	0.0
Tripura	226	0	3.5	1.7	-0.2	13	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-10.8	-10.9
Day peak (MW)	405.0	-576.3	-673.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	237.8	-251.2	113.0	-107.4	7.5	-0.2
Actual(MU)	236.3	-266.8	134.2	-107.2	2.4	-1.1
O/D/U/D(MU)	-1.5	-15.6	21.2	0.2	-5.2	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5938	14998	6632	2245	703	30516
State Sector	13135	15471	5740	4200	11	38557
Total	19073	30468	12372	6445	715	69073

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	488	1247	550	458	14	2757
Lignite	21	12	48	0	0	81
Hydro	128	50	80	29	4	292
Nuclear	24	33	39	0	0	96
Gas, Naptha & Diesel	31	39	18	0	23	111
RES (Wind, Solar, Biomass & Others)	73	66	164	1	0	304
Total	765	1446	900	489	41	3642

Share of RES in total generation (%)	9.59	4.54	18.21	0.30	0.10	8.36
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.46	10.29	31.47	6.30	10.73	19.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
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 : 5-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	297	0.0	6.9	-6.9
1	765kV	GAYA-VARANASI	D/C	0	997	0.0	14.0	-14.0
2		SASARAM-FATEHPUR	S/C	0	435	0.0	5.5	-5.5
3		GAYA-BALIA	S/C	0	435	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	S/C	0	201	0.0	3.9	-3.9
7		PUSAULI -ALLAHABAD	S/C	0	171	0.0	2.8	-2.8
8		MUZAFFARPUR-GORAKHPUR	D/C	0	624	0.0	6.2	-6.2
9		PATNA-BALIA	Q/C	0	868	0.0	14.1	-14.1
10		BIHARSHARIFF-BALIA	D/C	0	379	0.0	5.8	-5.8
11		MOTIHARI-GORAKHPUR	D/C	0	337	0.0	5.9	-5.9
12		BIHARSHARIFF-VARANASI	D/C	2	353	0.0	3.9	-3.9
13	220 kV	PUSAULI-SAHUPURI	S/C	8	97	0.0	0.8	-0.8
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	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	77.3	-76.6
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1295	0	14.2	0.0	14.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	450	293	1.6	0.0	1.6
20		JHARSUGUDA-DURG	D/C	31	367	0.0	3.8	-3.8
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	59	514	0.0	5.1	-5.1
22		RANCHI-SIPAT	D/C	215	73	2.0	0.0	2.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24		BUDHIPADAR-KORBA	D/C	70	29	0.6	0.0	0.6
ER-WR						18.4	8.9	9.5
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	537.0	0.0	12.6	-12.6
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1978.0	0.0	35.7	-35.7
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2284.0	0.0	43.3	-43.3
28	400 kV	TALCHER-I/C	D/C	239.0	646.0	0.0	2.1	-2.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	91.6	-91.6
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	224	155	2.5	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	373	162	4.2	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	65	34	0.7	0.0	1
ER-NER						7.4	0.0	7.4
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	605	0	10.9	0.0	10.9
NER-NR						10.9	0.0	10.9
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2506	0.0	41.9	-41.9
35		V'CHAL B/B	D/C	448	0	12.1	0.0	12.1
36		APL -MHG	D/C	0	1923	0.0	45.4	-45.4
37	765 kV	GWALIOR-AGRA	D/C	0	2616	0.0	44.4	-44.4
38		PHAGI-GWALIOR	D/C	0	1840	0.0	28.9	-28.9
39		JABALPUR-ORAI	D/C	0	954	0.0	32.4	-32.4
40		GWALIOR-ORAI	S/C	790	0	13.5	0.0	13.5
41		SATNA-ORAI	S/C	0	1435	0.0	29.5	-29.5
42	400 kV	CHITTORGARH-BANASKANTHA	D/C	161	876	0.0	4.9	-4.9
43		ZERDA-KANKROLI	S/C	166	172	0.0	0.0	0.0
44		ZERDA -BHINMAL	S/C	213	435	0.0	2.7	-2.7
45		V'CHAL -RIHAND	S/C	985	0	22.7	0.0	22.7
46		RAPP-SHUJALPUR	D/C	35	465	0	3	-3
47		BHANPURA-RANPUR	S/C	19	92	0.2	0.6	-0.4
48		220 kV	BHANPURA-MORAK	S/C	12	136	0.0	1.4
49	MEHGAON-AURAIYA		S/C	115	0	1.6	0.0	1.6
50	MALANPUR-AURAIYA		S/C	72	15	0.7	0.0	0.7
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						50.8	234.6	-183.8
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	22.1	-22.1
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	409	1736	0.0	17.2	-17.2
55		WARDHA-NIZAMABAD	D/C	0	2259	0.0	36.3	-36.3
56	400 kV	KOLHAPUR-KUDGI	D/C	650	1	0.0	8.1	-8.1
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	84	1.5	0.0	1.5
WR-SR						1.5	83.7	-82.2
TRANSNATIONAL EXCHANGE								
60		BHUTAN						1.7
61		NEPAL						-10.8
62		BANGLADESH						-10.9