



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: 21st Jan 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., डोंगतेह, 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 20.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जनवरी-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 20th Jan 2020, is available at the NLDC website.

धन्यवाद,

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

Report for previous day

Date of Reporting 21-Jan-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)	48526	47898	39737	18105	2439	156705
Peak Shortage (MW)	640	0	0	0	28	668
Energy Met (MU)	952	1128	986	351	41	3459
Hydro Gen (MU)	132	45	86	37	7	309
Wind Gen (MU)	6	47	38	-----	-----	90
Solar Gen (MU)*	23.10	24.20	86.88	1.52	0.03	136
Energy Shortage (MU)	13.3	0.0	0.0	0.0	0.9	14.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48718 19:00	54730 11:01	46940 08:11	18351 18:44	2467 18:00	166529 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	0.035	0.00	0.24	6.00	6.24	75.53	18.23

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	5706	0	105.1	53.1	-1.0	39	0.0
	Haryana	6668	0	126.4	87.5	0.7	258	0.0
	Rajasthan	13279	0	234.2	76.8	0.2	313	0.0
	Delhi	4548	0	77.7	60.8	0.4	265	0.0
	UP	16017	0	281.2	121.9	0.2	672	1.2
	Uttarakhand	2166	0	40.0	21.6	1.0	209	0.0
	HP	1759	0	32.2	23.0	1.7	275	0.0
	J&K(UT) and Ladakh(UT)	2573	643	51.0	42.5	0.3	302	12.1
	Chandigarh	272	0	4.5	4.4	0.1	52	0.0
WR	Chhattisgarh	3593	0	78.7	26.3	-1.0	160	0.0
	Gujarat	15607	0	324.8	79.3	4.4	680	0.0
	MP	13149	0	235.9	142.4	-3.4	353	0.0
	Maharashtra	22251	0	445.9	145.4	-0.7	434	0.0
	Goa	504	0	9.9	9.8	-0.2	34	0.0
	DD	320	0	7.0	6.6	0.4	37	0.0
	DNH	794	0	18.3	18.0	0.3	55	0.0
	Essar steel	407	0	7.8	7.4	0.4	275	0.0
	Andhra Pradesh	8978	0	177.3	63.5	0.5	504	0.0
SR	Telangana	10871	0	211.8	104.4	0.6	461	0.0
	Karnataka	12531	0	233.6	64.7	0.0	573	0.0
	Kerala	3746	0	73.3	56.0	1.8	599	0.0
	Tamil Nadu	13978	0	283.0	157.1	1.0	491	0.0
	Pondy	353	0	6.9	7.1	-0.2	29	0.0
	Bihar	4519	0	78.2	75.5	0.9	300	0.0
ER	DVC	3090	0	64.6	-36.7	0.5	300	0.0
	Jharkhand	1308	0	25.3	16.1	0.1	150	0.0
	Odisha	3656	0	69.0	2.9	-0.3	350	0.0
	West Bengal	6314	0	112.2	20.3	0.4	250	0.0
	Sikkim	126	0	1.8	1.7	0.1	30	0.0
	Arunachal Pradesh	115	1	2.4	2.1	0.1	21	0.0
NER	Assam	1331	10	21.5	18.6	0.4	118	0.5
	Manipur	205	2	2.8	3.0	-0.2	42	0.0
	Meghalaya	380	0	6.5	3.6	0.8	75	0.3
	Mizoram	117	1	1.9	1.5	0.0	14	0.0
	Nagaland	126	1	2.3	2.0	0.1	31	0.0
	Tripura	223	0	3.5	1.8	-0.4	25	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.8	-9.3	-10.1
Day peak (MW)	466.4	-522.0	-762.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.8	-242.4	114.5	-112.3	3.3	0.0
Actual(MU)	227.8	-256.0	126.2	-104.9	3.5	-3.4
O/D/U/D(MU)	-9.0	-13.6	11.7	7.4	0.2	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5816	15058	7422	1710	588	30594
State Sector	11575	16942	7310	4660	11	40498
Total	17391	31999	14732	6370	600	71092

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	464	1183	495	450	13	2605
Lignite	22	15	49	0	0	86
Hydro	132	45	86	37	7	309
Nuclear	25	19	40	0	0	83
Gas, Naptha & Diesel	33	39	17	0	22	111
RES (Wind, Solar, Biomass & Others)	58	82	170	2	0	312
Total	735	1383	857	489	42	3505

Share of RES in total generation (%)	7.94	5.94	19.83	0.32	0.07	8.90
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.34	10.57	34.49	7.99	17.04	20.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.090

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 : 21-Jan-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	299	0.0	7.3	-7.3
1	765kV	GAYA-VARANASI	D/C	0	909	0.0	11.7	-11.7
2		SASARAM-FATEHPUR	S/C	0	451	0.0	5.8	-5.8
3		GAYA-BALIA	S/C	0	620	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	S/C	0	211	0.0	4.2	-4.2
7		PUSAULI -ALLAHABAD	S/C	0	168	0.0	2.9	-2.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	922	0.0	11.5	-11.5
9		PATNA-BALIA	Q/C	0	1038	0.0	17.0	-17.0
10		BIHARSHARIFF-BALIA	D/C	0	509	0.0	6.5	-6.5
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	14	460	0.0	4.8	-4.8
13		220 kV	PUSAULI-SAHUPURI	S/C	5	133	0.0	1.6
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	74.8	-74.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1279	0	19.4	0.0	19.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	480	267	2.2	0.0	2.2
20		JHARSUGUDA-DURG	D/C	154	332	0.0	1.4	-1.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	195	261	0.0	0.3	-0.3
22		RANCHI-SIPAT	D/C	160	89	0.8	0.0	0.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	102	0.0	1.4	-1.4
24		BUDHIPADAR-KORBA	D/C	159	0	2.5	0.0	2.5
ER-WR						24.8	3.2	21.6
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	625.0	0.0	12.2	-12.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2452.0	0.0	41.3	-41.3
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2467.0	0.0	47.2	-47.2
28	400 kV	TALCHER-I/C	D/C	854.0	761.0	0.0	0.6	-0.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	100.7	-100.7
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	197	92	2.4	0.0	2
31		ALIPURDUAR-BONGAIGAON	D/C	334	90	4.4	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	61	36	0.6	0.0	1
ER-NER						7.4	0.0	7.4
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	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	2349	0.0	33.2	-33.2
35		V'CHAL B/B	D/C	449	0	11.5	0.0	11.5
36	765 kV	APL -MHG	D/C	0	1920	0.0	37.6	-37.6
37		GWALIOR-AGRA	D/C	0	2701	0.0	46.3	-46.3
38		PHAGI-GWALIOR	D/C	0	1537	0.0	22.0	-22.0
39		JABALPUR-ORAI	D/C	0	897	0.0	29.9	-29.9
40		GWALIOR-ORAI	S/C	631	0	10.8	0.0	10.8
41		SATNA-ORAI	S/C	0	1402	0.0	28.6	-28.6
42		CHITTORGARH-BANASKANTHA	D/C	33	900	0.0	5.5	-5.5
43		ZERDA-KANKROLI	S/C	105	145	0.0	0.2	-0.2
44	400 kV	ZERDA -BHINMAL	S/C	31	440	0.0	4.4	-4.4
45		V'CHAL -RIHAND	S/C	986	0	22.7	0.0	22.7
46		RAPP-SHUJALPUR	D/C	149	363	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	14	85	0.2	0.7	-0.5
48		BHANPURA-MORAK	S/C	12	134	0.0	1.4	-1.4
49		MEHGAON-AURAIYA	S/C	90	0	0.7	0.0	0.7
50		MALANPUR-AURAIYA	S/C	54	29	0.2	0.1	0.1
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						46.2	211.4	-165.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	562	0.0	12.8	-12.8
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	467	1976	0.7	23.2	-22.5
55		WARDHA-NIZAMABAD	D/C	0	2410	0.0	39.0	-39.0
56	400 kV	KOLHAPUR-KUDGI	D/C	699	76	7.0	0.1	6.9
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	91	1.6	0.0	1.6
WR-SR						9.3	75.1	-65.8
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.8
61		NEPAL						-9.3
62		BANGLADESH						-10.1