



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: 23rd 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., 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 22.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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 23-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)	47466	47951	40671	19092	2422	157602
Peak Shortage (MW)	623	0	0	0	27	650
Energy Met (MU)	965	1150	1013	362	43	3534
Hydro Gen (MU)	130	37	77	34	6	283
Wind Gen (MU)	37	86	73	-----	-----	197
Solar Gen (MU)*	34.40	24.50	89.64	1.39	0.03	150
Energy Shortage (MU)	12.1	0.0	0.0	0.0	0.4	12.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49368 09:58	55367 11:01	47686 08:08	19192 18:43	2499 17:37	168599 09:40

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	0.029	0.00	0.00	0.32	0.32	69.09	30.59

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	5701	0	111.2	55.7	-1.1	95	0.0
	Haryana	6617	0	130.3	90.6	0.7	183	0.0
	Rajasthan	13387	0	238.7	52.9	-2.2	570	0.0
	Delhi	4604	0	76.6	61.0	-0.6	285	0.0
	UP	15979	235	283.2	121.2	0.4	736	0.0
	Uttarakhand	2179	0	39.6	22.9	-0.5	90	0.0
	HP	1743	0	31.3	24.5	-0.4	197	0.0
	J&K(UT) and Ladakh(UT)	2492	623	49.8	46.0	-1.6	278	12.1
	Chandigarh	274	0	4.2	4.3	-0.1	31	0.0
WR	Chhattisgarh	3802	0	77.1	41.5	-4.1	261	0.0
	Gujarat	15433	0	329.1	63.6	3.2	634	0.0
	MP	13577	0	242.1	141.0	-3.5	392	0.0
	Maharashtra	22404	0	460.2	159.0	-2.2	526	0.0
	Goa	498	0	10.3	10.3	-0.4	18	0.0
	DD	337	0	7.5	7.1	0.4	35	0.0
	DNH	809	0	18.8	18.8	0.0	39	0.0
	Essar steel	290	0	5.2	5.6	-0.4	235	0.0
	SR	Andhra Pradesh	9017	0	182.4	68.5	0.9	361
Telangana		10989	0	216.3	106.0	0.8	768	0.0
Karnataka		12113	0	234.8	54.7	0.0	576	0.0
Kerala		3761	0	74.9	57.7	1.9	207	0.0
Tamil Nadu		14461	0	297.4	146.7	0.3	418	0.0
Pondy		352	0	7.0	7.4	-0.3	29	0.0
ER		Bihar	4662	0	81.6	79.7	0.3	50
	DVC	3115	0	63.9	-36.7	0.0	150	0.0
	Jharkhand	1342	0	25.9	18.4	-1.1	90	0.0
	Odisha	3774	0	70.3	6.4	0.3	280	0.0
	West Bengal	6585	0	118.8	27.1	0.8	200	0.0
	Sikkim	124	0	1.9	1.7	0.2	25	0.0
NER	Arunachal Pradesh	118	2	2.1	1.8	0.2	56	0.0
	Assam	1367	18	24.1	19.7	2.0	127	0.2
	Manipur	182	1	2.3	3.0	-0.7	30	0.0
	Meghalaya	376	2	6.6	5.4	0.1	38	0.3
	Mizoram	108	1	1.6	1.5	-0.3	26	0.0
	Nagaland	126	1	2.1	2.0	0.0	36	0.0
	Tripura	221	7	4.5	1.5	0.6	22	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.1	-10.3	-9.7
Day peak (MW)	571.8	-559.3	-764.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.1	-237.5	103.0	-94.4	5.7	-0.1
Actual(MU)	204.5	-247.5	119.8	-83.0	9.7	3.4
O/D/U/D(MU)	-18.6	-10.1	16.8	11.4	4.0	3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5250	14568	6722	1360	609	28509
State Sector	11230	16289	6990	4550	11	39070
Total	16480	30857	13712	5910	621	67579

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	470	1157	499	434	10	2570
Lignite	21	13	46	0	0	80
Hydro	130	37	77	34	6	283
Nuclear	24	32	40	0	0	96
Gas, Naptha & Diesel	34	32	17	0	22	105
RES (Wind, Solar, Biomass & Others)	101	130	214	1	0	447
Total	780	1401	893	469	38	3581

Share of RES in total generation (%)	12.90	9.30	23.99	0.30	0.08	12.47
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.71	14.21	37.04	7.52	14.83	23.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.085

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 : 23-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	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	0	996	0.0	10.8	-10.8
2		SASARAM-FATEHPUR	S/C	92	391	0.0	2.7	-2.7
3		GAYA-BALIA	S/C	0	482	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.5	-4.5
7		PUSAULI -ALLAHABAD	S/C	0	167	0.0	2.7	-2.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	853	0.0	8.5	-8.5
9		PATNA-BALIA	Q/C	0	897	0.0	12.6	-12.6
10		BIHARSHARIFF-BALIA	D/C	0	435	0.0	4.6	-4.6
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	125	365	0.0	1.3	-1.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	155	0.0	2.7	-2.7
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.8	0.0	0.8
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						0.8	57.7	-56.9
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5968	0	21.8	0.0	21.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	570	91	6.2	0.0	6.2
20		JHARSUGUDA-DURG	D/C	999999	146	0.0	0.5	-0.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	110	285	0.0	1.7	-1.7
22		RANCHI-SIPAT	D/C	193	51	2.2	0.0	2.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	105	0.0	1.4	-1.4
24		BUDHIPADAR-KORBA	D/C	124	0	1.8	0.0	1.8
ER-WR						32.0	3.6	28.4
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	535.0	0.0	12.5	-12.5
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1980.0	0.0	38.7	-38.7
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2503.0	0.0	47.2	-47.2
28	400 kV	TALCHER-I/C	D/C	873.0	396.0	1.3	0.0	1.3
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	98.4	-98.4
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	140	176	1.1	0.0	1
31		ALIPURDUAR-BONGAIGAON	D/C	247	222	2.1	0.0	2
32	220 kV	ALIPURDUAR-SALAKATI	D/C	40	62	0.2	0.0	0
ER-NER						3.3	0.0	3.3
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	474	0	11.8	0.0	11.8
NER-NR						11.8	0.0	11.8
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1807	0.0	26.2	-26.2
35		V'CHAL B/B	D/C	449	102	7.1	0.6	6.5
36	765 kV	APL -MHG	D/C	0	1924	0.0	37.1	-37.1
37		GWALIOR-AGRA	D/C	0	2732	0.0	48.2	-48.2
38		PHAGI-GWALIOR	D/C	56	1716	0.0	17.4	-17.4
39		JABALPUR-ORAI	D/C	0	911	0.0	28.8	-28.8
40		GWALIOR-ORAI	S/C	723	0	9.8	0.0	9.8
41		SATNA-ORAI	S/C	0	1494	0.0	29.2	-29.2
42		CHITTORGARH-BANASKANTHA	D/C	34	1223	0.0	9.5	-9.5
43	400 kV	ZERDA-KANKROLI	S/C	159	200	0.0	0.2	-0.2
44		ZERDA -BHINMAL	S/C	291	310	0.2	0.0	0.2
45		V'CHAL -RIHAND	S/C	973	0	22.6	0.0	22.6
46	220 kV	RAPP-SHUJALPUR	D/C	306	334	0	0	0
47		BHANPURA-RANPUR	S/C	48	77	0.5	0.4	0.1
48		BHANPURA-MORAK	S/C	36	106	0.1	1.0	-0.9
49		MEHGAON-AURAIYA	S/C	92	0	0.8	0.0	0.8
50	132kV	MALANPUR-AURAIYA	S/C	43	28	0.1	0.2	0.0
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						41.4	198.7	-157.3
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	992	0.0	15.2	-15.2
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	725	1904	1.5	21.8	-20.3
55		WARDHA-NIZAMABAD	D/C	0	2476	0.0	37.9	-37.9
56	400 kV	KOLHAPUR-KUDGI	D/C	1053	0	12.6	0.0	12.6
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	89	1.7	0.0	1.7
WR-SR						15.8	75.0	-59.2
TRANSNATIONAL EXCHANGE								
60		BHUTAN						3.1
61		NEPAL						-10.3
62		BANGLADESH						-9.7