



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: 29th 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 28.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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 29-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)	46223	48775	41720	18992	2495	158205
Peak Shortage (MW)	601	0	75	0	24	700
Energy Met (MU)	926	1185	1028	366	43	3548
Hydro Gen (MU)	125	40	94	35	5	298
Wind Gen (MU)	12	65	23	-----	-----	100
Solar Gen (MU)*	31.93	23.10	78.95	1.56	0.03	136
Energy Shortage (MU)	12.6	0.0	0.4	0.0	0.7	13.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47552 09:46	57152 11:02	49151 08:08	19318 19:01	2521 17:53	171063 09:27

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	0.036	0.00	0.06	7.71	7.77	76.68	15.56

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	5436	0	102.9	51.4	-1.9	-	0.0
	Haryana	6210	0	116.3	81.4	0.3	-	0.0
	Rajasthan	13781	0	240.6	63.1	-1.0	261	0.0
	Delhi	4225	0	72.1	55.9	-0.6	-	0.0
	UP	15073	0	270.4	108.9	-0.5	740	0.9
	Uttarakhand	1942	0	38.7	27.1	0.0	137	0.0
	HP	1549	0	28.6	22.5	-0.9	-	0.0
	J&K(UT) and Ladakh(UT)	2483	621	52.2	46.0	0.9	-	11.7
WR	Chandigarh	262	0	4.4	4.1	0.3	63	0.0
	Chhattisgarh	3789	0	80.8	42.2	-1.1	449	0.0
	Gujarat	16189	0	338.0	92.0	4.4	982	0.0
	MP	14712	0	258.5	142.9	-3.0	451	0.0
	Maharashtra	22975	0	467.0	147.8	-0.9	703	0.0
	Goa	487	0	10.2	10.2	-0.4	29	0.0
	DD	333	0	7.4	7.1	0.3	38	0.0
	DNH	815	0	18.9	18.8	0.1	42	0.0
SR	Essar steel	725	0	4.6	5.6	-1.0	244	0.0
	Andhra Pradesh	9371	0	187.8	68.6	-0.1	405	0.0
	Telangana	11200	0	218.5	107.8	0.1	536	0.0
	Karnataka	12378	0	233.3	60.5	1.0	584	0.0
	Kerala	3680	-75	74.2	55.1	1.6	325	0.4
	Tamil Nadu	14719	0	307.0	159.2	1.4	674	0.0
	Pondy	365	0	7.4	7.4	0.0	45	0.0
	ER	Bihar	4456	0	80.6	77.9	0.9	400
DVC		3322	0	66.3	-35.9	0.2	500	0.0
Jharkhand		1325	0	26.3	17.5	0.8	100	0.0
Odisha		3830	0	71.0	9.5	-0.6	200	0.0
West Bengal		6549	0	119.5	28.0	-0.8	250	0.0
Sikkim		146	0	2.2	1.8	0.5	30	0.0
NER	Arunachal Pradesh	137	1	2.2	2.1	0.0	51	0.0
	Assam	1373	10	23.4	20.1	0.7	103	0.4
	Manipur	217	1	2.9	3.1	-0.3	28	0.0
	Meghalaya	377	0	6.6	5.8	-0.2	30	0.3
	Mizoram	126	1	1.7	1.6	-0.4	25	0.0
	Nagaland	116	2	2.4	2.1	0.1	21	0.0
	Tripura	224	0	3.6	1.8	0.0	37	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.6	-11.5	-10.3
Day peak (MW)	510.1	-560.0	-851.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.4	-233.3	118.1	-99.1	6.7	-0.2
Actual(MU)	192.4	-251.1	144.0	-93.7	7.5	-0.9
O/D/U/D(MU)	-14.9	-17.8	25.9	5.4	0.8	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5882	14183	7982	1360	613	30020
State Sector	11525	15879	6140	4760	11	38315
Total	17407	30062	14122	6120	625	68335

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	489	1195	558	456	13	2711
Lignite	23	14	41	0	0	78
Hydro	125	40	94	35	5	298
Nuclear	24	33	40	0	0	97
Gas, Naptha & Diesel	27	36	19	0	22	104
RES (Wind, Solar, Biomass & Others)	73	98	139	2	0	312
Total	759	1416	891	492	41	3599

Share of RES in total generation (%)	9.57	6.92	15.66	0.32	0.07	8.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.17	12.05	30.60	7.37	13.12	19.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.081

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 : 29-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	2	299	0.0	7.0	-7.0
1	765kV	GAYA-VARANASI	D/C	64	867	0.0	8.8	-8.8
2		SASARAM-FATEHPUR	S/C	107	503	0.0	4.2	-4.2
3		GAYA-BALIA	S/C	0	519	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	S/C	38	226	0.0	4.3	-4.3
7		PUSAULI -ALLAHABAD	S/C	0	161	0.0	2.6	-2.6
8		MUZAFFARPUR-GORAKHPUR	D/C	0	738	0.0	8.1	-8.1
9		PATNA-BALIA	Q/C	0	957	0.0	14.2	-14.2
10		BIHARSHARIFF-BALIA	D/C	0	375	0.0	4.8	-4.8
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	155	331	0.0	1.9	-1.9
13		220 kV	PUSAULI-SAHUPURI	S/C	0	119	0.0	2.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	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	59.3	-58.6
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1935	0	25.3	0.0	25.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	823	75	7.1	0.0	7.1
20		JHARSUGUDA-DURG	D/C	188	155	0.2	0.0	0.2
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	107	480	0.0	4.4	-4.4
22		RANCHI-SIPAT	D/C	146	158	0.7	0.0	0.7
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	123	0.0	1.2	-1.2
24		BUDHIPADAR-KORBA	D/C	150	16	1.4	0.0	1.4
ER-WR						34.8	5.6	29.2
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	533.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2459.0	0.0	48.3	-48.3
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2601.0	0.0	47.5	-47.5
28	400 kV	TALCHER-I/C	D/C	270.0	985.0	0.0	6.9	-6.9
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	108.2	-108.2
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	120	159	0.4	0.0	0
31		ALIPURDUAR-BONGAIGAON	D/C	221	201	1.1	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	43	48	0.1	0.0	0
ER-NER						1.6	0.0	1.6
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	10.3	0.0	10.3
NER-NR						10.3	0.0	10.3
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1603	0.0	21.0	-21.0
35		V'CHAL B/B	D/C	447	102	9.1	0.0	9.1
36	765 kV	APL -MHG	D/C	0	1924	0.0	42.4	-42.4
37		GWALIOR-AGRA	D/C	0	2665	0.0	42.3	-42.3
38		PHAGI-GWALIOR	D/C	0	1560	0.0	20.5	-20.5
39		JABALPUR-ORAI	D/C	0	911	0.0	29.3	-29.3
40		GWALIOR-ORAI	S/C	798	0	11.6	0.0	11.6
41		SATNA-ORAI	S/C	0	1430	0.0	28.2	-28.2
42		CHITTORGARH-BANASKANTHA	D/C	482	963	0.0	3.1	-3.1
43		ZERDA-KANKROLI	S/C	219	126	0.9	0.0	0.9
44	400 kV	ZERDA -BHINMAL	S/C	288	358	0.0	1.5	-1.5
45		V'CHAL -RIHAND	S/C	981	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	0	119	0	0	0
47	220 kV	BHANPURA-RANPUR	S/C	30	80	0.5	0.4	0.0
48		BHANPURA-MORAK	S/C	44	110	0.1	1.2	-1.1
49		MEHGAON-AURAIYA	S/C	111	0	1.1	0.0	1.1
50		MALANPUR-AURAIYA	S/C	66	33	0.4	0.1	0.3
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						46.0	190.5	-144.5
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.9	-21.9
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	363	2059	0.4	23.8	-23.3
55		WARDHA-NIZAMABAD	D/C	0	2329	0.0	34.6	-34.6
56	400 kV	KOLHAPUR-KUDGI	D/C	475	240	3.1	1.1	2.0
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	95	1.7	0.0	1.7
WR-SR						5.2	81.5	-76.3
TRANSNATIONAL EXCHANGE								
60		BHUTAN						3.6
61		NEPAL						-11.5
62		BANGLADESH						-10.3