



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: 28th Jan 2020

To,

1. कार्यकारी निदेशक, पू. क्षेत्र. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षेत्र. 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. क्षेत्र. 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. क्षेत्र. भा. प्रे. के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक, द. क्षेत्र. 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 27.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स. -5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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 28-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)	46236	49012	41258	18929	2457	157892
Peak Shortage (MW)	692	0	0	0	51	743
Energy Met (MU)	943	1164	1002	357	42	3507
Hydro Gen (MU)	124	45	85	36	5	295
Wind Gen (MU)	15	46	26	-----	-----	87
Solar Gen (MU)*	25.50	22.50	89.84	1.44	0.04	139
Energy Shortage (MU)	12.2	0.0	0.0	0.0	0.7	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48422 09:28	56070 11:13	47469 08:14	19063 18:57	2478 18:15	168675 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	0.040	0.00	0.41	7.23	7.64	73.50	18.87

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	5663	0	107.5	53.2	-1.7	86	0.0
	Haryana	6472	0	123.5	85.7	-0.3	123	0.0
	Rajasthan	13578	0	238.4	67.9	-2.7	300	0.0
	Delhi	4191	0	69.0	54.4	-1.0	266	0.0
	UP	15962	0	281.2	116.5	-1.3	740	0.0
	Uttarakhand	2024	0	38.9	26.7	0.5	256	0.1
	HP	1549	0	28.4	22.5	-1.0	81	0.0
	J&K(UT) and Ladakh(UT)	2641	660	51.2	45.6	0.2	357	12.1
	Chandigarh	243	0	4.6	4.1	0.5	56	0.0
WR	Chhattisgarh	3819	0	82.3	39.1	0.0	295	0.0
	Gujarat	15925	0	332.4	85.6	4.6	673	0.0
	MP	14522	0	255.7	140.1	-4.4	607	0.0
	Maharashtra	22876	0	454.7	141.9	-1.2	472	0.0
	Goa	480	0	9.8	9.8	-0.4	62	0.0
	DD	319	0	6.2	6.0	0.2	41	0.0
	DNH	797	0	17.2	17.2	0.0	38	0.0
	Essar steel	732	0	5.3	5.7	-0.4	205	0.0
	SR	Andhra Pradesh	9068	0	182.9	65.7	-0.2	405
Telangana		10872	0	215.0	104.8	0.9	820	0.0
Karnataka		12138	0	228.3	59.1	-0.3	690	0.0
Kerala		3706	0	72.1	55.9	1.6	231	0.0
Tamil Nadu		14356	0	296.7	155.7	1.4	695	0.0
Pondy		357	0	7.0	7.1	-0.1	55	0.0
ER	Bihar	4563	0	79.9	78.0	0.2	263	0.0
	DVC	3257	0	64.8	-35.8	-0.2	254	0.0
	Jharkhand	1266	0	26.3	16.9	-0.2	36	0.0
	Odisha	3803	0	70.1	7.0	0.8	221	0.0
	West Bengal	6531	0	113.9	24.2	-0.6	198	0.0
	Sikkim	140	0	2.1	1.8	0.3	56	0.0
NER	Arunachal Pradesh	130	1	2.2	2.0	0.1	65	0.0
	Assam	1362	25	22.7	19.4	0.8	78	0.4
	Manipur	205	2	2.9	3.1	-0.2	26	0.0
	Meghalaya	364	0	6.7	5.7	-0.2	82	0.3
	Mizoram	114	1	1.5	1.6	-0.6	22	0.0
	Nagaland	132	3	2.3	2.0	0.1	37	0.0
Tripura	220	0	3.4	3.4	0.0	101	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.2	-10.9	-10.4
Day peak (MW)	550.0	-575.3	-852.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.1	-235.0	106.4	-104.6	8.8	-0.3
Actual(MU)	202.2	-236.7	131.1	-104.2	8.8	1.2
O/D/U/D(MU)	-21.9	-1.8	24.7	0.4	0.0	1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5852	14843	7732	1360	613	30400
State Sector	11325	15361	5890	5210	112	37898
Total	17177	30204	13622	6570	726	68298

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	499	1192	528	452	12	2683
Lignite	20	15	48	0	0	82
Hydro	124	45	85	36	5	295
Nuclear	23	33	40	0	0	96
Gas, Naptha & Diesel	26	39	18	0	20	103
RES (Wind, Solar, Biomass & Others)	69	80	155	1	0	305
Total	762	1403	873	489	38	3565

Share of RES in total generation (%)	9.12	5.67	17.73	0.30	0.11	8.57
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.48	11.18	31.99	7.65	14.06	19.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.093

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 :	28-Jan-20
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for 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	6.9	-6.9	
1	765kV	GAYA-VARANASI	D/C	0	1027	0.0	10.4	-10.4	
2		SASARAM-FATEHPUR	S/C	57	429	0.0	4.4	-4.4	
3		GAYA-BALIA	S/C	0	639	0.0	9.1	-9.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	233	0.0	4.7	-4.7	
7		PUSAULI -ALLAHABAD	S/C	0	162	0.0	2.4	-2.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	850	0.0	9.9	-9.9	
9		PATNA-BALIA	Q/C	0	1099	0.0	16.4	-16.4	
10		BIHARSHARIFF-BALIA	D/C	0	431	0.0	5.9	-5.9	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	93	383	0.0	2.5	-2.5	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	95	0.0	1.7	-1.7
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.7	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	67.3	-66.6
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1551	0	21.9	0.0	21.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	666	191	3.3	0.0	3.3	
20		JHARSUGUDA-DURG	D/C	189	111	0.2	0.0	0.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	47	451	0.0	4.3	-4.3	
22		RANCHI-SIPAT	D/C	227	86	1.1	0.0	1.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.5	-1.5	
24		BUDHIPADAR-KORBA	D/C	151	8	1.9	0.0	1.9	
						ER-WR	28.4	5.9	22.5
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	534.0	0.0	12.3	-12.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1982.0	0.0	42.7	-42.7	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2690.0	0.0	48.2	-48.2	
28	400 kV	TALCHER-I/C	D/C	396.0	796.0	0.0	1.6	-1.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	103.2	-103.2
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	117	222	0.4	0.0	0	
31		ALIPURDUAR-BONGAIGAON	D/C	208	285	0.9	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	40	59	0.1	0.0	0	
						ER-NER	1.3	0.0	1.3
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	473	0	10.8	0.0	10.8	
						NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1851	0.0	22.5	-22.5	
35		V'CHAL B/B	D/C	449	0	10.1	0.0	10.1	
36		APL -MHG	D/C	0	1552	0.0	38.7	-38.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2526	0.0	42.7	-42.7	
38		PHAGI-GWALIOR	D/C	0	1652	0.0	21.2	-21.2	
39		JABALPUR-ORAI	D/C	0	918	0.0	30.6	-30.6	
40		GWALIOR-ORAI	S/C	735	0	11.5	0.0	11.5	
41		SATNA-ORAI	S/C	0	1384	0.0	27.9	-27.9	
42		CHITTORGARH-BANASKANTHA	D/C	283	832	0.0	4.8	-4.8	
43	400 kV	ZERDA-KANKROLI	S/C	159	173	0.0	0.1	-0.1	
44		ZERDA -BHINMAL	S/C	141	476	0.0	2.8	-2.8	
45		V'CHAL -RIHAND	S/C	986	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	207	347	0	1	-1	
47		BHANPURA-RANPUR	S/C	20	86	0.4	0.5	-0.1	
48		BHANPURA-MORAK	S/C	31	119	0.1	1.2	-1.1	
49		MEHGAON-AURAIYA	S/C	99	0	1.2	0.0	1.2	
50		MALANPUR-AURAIYA	S/C	48	29	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	46.3	193.6	-147.4
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1016	0.0	17.0	-17.0	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	598	1845	1.2	22.5	-21.3	
55		WARDHA-NIZAMABAD	D/C	0	2132	0.0	35.7	-35.7	
56	400 kV	KOLHAPUR-KUDGI	D/C	467	138	3.3	0.3	2.9	
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	94	1.8	0.0	1.8	
						WR-SR	6.2	75.5	-69.3
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.2	
61		NEPAL						-10.9	
62		BANGLADESH						-10.4	