



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: 30th 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 29.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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

30-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)	45376	48321	41823	18525	2473	156518
Peak Shortage (MW)	560	0	0	0	31	591
Energy Met (MU)	932	1175	1032	353	43	3534
Hydro Gen (MU)	131	49	89	34	5	307
Wind Gen (MU)	2	26	19	-----	-----	47
Solar Gen (MU)*	34.53	25.10	77.79	1.34	0.03	139
Energy Shortage (MU)	12.0	0.1	0.0	0.0	0.6	12.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46621 08:23	56212 09:40	47414 07:30	18706 18:21	2468 17:54	167903 09:43

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	0.032	0.00	0.00	5.32	5.32	77.09	17.58

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	5565	0	104.2	53.7	-1.5	52	0.0
	Haryana	6224	0	123.1	86.0	-0.5	226	0.0
	Rajasthan	13619	0	240.9	69.3	-0.9	258	0.0
	Delhi	4323	0	71.8	56.8	-1.3	213	0.0
	UP	14969	0	271.8	111.0	-1.3	740	0.6
	Uttarakhand	2002	0	38.5	25.8	-0.2	120	0.0
	HP	1578	0	29.2	22.3	-0.2	319	0.0
	J&K(UT) and Ladakh(UT)	2335	584	48.4	43.1	-0.1	278	11.5
	Chandigarh	267	0	4.3	4.2	0.1	54	0.0
WR	Chhattisgarh	3727	25	80.8	40.1	-0.4	302	0.1
	Gujarat	15406	0	330.5	88.2	5.1	572	0.0
	MP	14541	0	259.6	145.9	-2.8	462	0.0
	Maharashtra	22785	0	461.9	151.6	-0.9	518	0.0
	Goa	510	0	10.2	10.2	-0.4	33	0.0
	DD	330	0	7.4	7.1	0.3	41	0.0
	DNH	804	0	18.8	18.8	0.0	41	0.0
	Essar steel	711	0	5.7	5.6	0.1	266	0.0
	SR	Andhra Pradesh	9245	0	191.0	67.9	0.6	365
Telangana		11359	0	219.7	110.2	0.7	727	0.0
Karnataka		12394	0	235.8	64.4	-0.2	704	0.0
Kerala		3755	0	75.0	55.8	1.7	196	0.0
Tamil Nadu		14370	0	302.4	163.4	0.4	700	0.0
Pondy		375	0	7.9	7.6	0.3	50	0.0
ER		Bihar	4381	0	76.8	76.8	-1.5	200
	DVC	3265	0	64.1	-38.2	0.0	350	0.0
	Jharkhand	1227	0	24.2	16.9	-0.8	50	0.0
	Odisha	4022	0	71.5	9.2	0.3	200	0.0
	West Bengal	6270	0	114.1	25.9	-0.7	350	0.0
	Sikkim	142	0	2.2	1.8	0.4	60	0.0
NER	Arunachal Pradesh	119	2	2.1	2.1	-0.1	47	0.0
	Assam	1370	12	23.2	20.2	0.4	106	0.3
	Manipur	212	1	2.6	3.1	-0.5	31	0.0
	Meghalaya	374	0	6.6	6.0	-0.1	35	0.3
	Mizoram	104	2	1.7	1.6	-0.3	30	0.0
	Nagaland	124	1	2.2	2.1	0.0	17	0.0
Tripura	223	3	4.2	1.8	0.3	33	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.1	-10.3	-10.4
Day peak (MW)	514.9	-548.0	-858.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.2	-237.1	120.7	-108.2	6.9	-0.4
Actual(MU)	197.2	-252.7	150.2	-108.3	7.9	-5.8
O/D/U/D(MU)	-20.0	-15.7	29.5	-0.1	1.0	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6465	14183	8272	1360	613	30893
State Sector	11735	15737	5890	4550	11	37923
Total	18200	29920	14162	5910	625	68816

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	484	1233	554	461	12	2744
Lignite	25	15	43	0	0	83
Hydro	131	49	89	34	5	307
Nuclear	25	33	40	0	0	97
Gas, Naptha & Diesel	25	32	19	0	23	100
RES (Wind, Solar, Biomass & Others)	65	58	141	1	0	266
Total	755	1420	886	496	40	3597

Share of RES in total generation (%)	8.67	4.09	15.94	0.28	0.08	7.40
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.24	9.85	30.49	7.09	11.76	18.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
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 : 30-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	297	0.0	6.8	-6.8
1	765kV	GAYA-VARANASI	D/C	21	760	0.0	8.6	-8.6
2		SASARAM-FATEHPUR	S/C	68	453	0.0	4.5	-4.5
3		GAYA-BALIA	S/C	0	489	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	S/C	16	211	0.0	3.9	-3.9
7		PUSAULI -ALLAHABAD	S/C	0	178	0.0	2.7	-2.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	699	0.0	9.8	-9.8
9		PATNA-BALIA	Q/C	0	875	0.0	14.1	-14.1
10		BIHARSHARIFF-BALIA	D/C	0	367	0.0	5.4	-5.4
11		MOTIHARI-GORAKHPUR	D/C	3	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	86	319	0.0	2.6	-2.6
13	220 kV	PUSAULI-SAHUPURI	S/C	14	110	0.0	1.6	-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	60.8	-60.2
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1373	0	20.5	0.0	20.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	493	361	0.0	0.3	-0.3
20		JHARSUGUDA-DURG	D/C	29	162	0.0	1.1	-1.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	28	480	0.0	4.4	-4.4
22		RANCHI-SIPAT	D/C	167	161	0.0	0.1	-0.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	11	87	0.0	1.1	-1.1
24		BUDHIPADAR-KORBA	D/C	111	39	1.0	0.0	1.0
ER-WR						21.5	6.9	14.6
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	1984.0	0.0	42.5	-42.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2857.0	0.0	52.3	-52.3
28	400 kV	TALCHER-I/C	D/C	406.0	956.0	0.0	1.0	-1.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	107.1	-107.1
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	124	89	0.6	0.0	1
31		ALIPURDUAR-BONGAIGAON	D/C	220	93	1.4	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	43	19	0.2	0.0	0
ER-NER						2.2	0.0	2.2
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	2003	0.0	38.4	-38.4
35		V'CHAL B/B	D/C	447	101	11.4	0.1	11.3
36		APL -MHG	D/C	0	1924	0.0	43.7	-43.7
37	765 kV	GWALIOR-AGRA	D/C	0	2868	0.0	41.6	-41.6
38		PHAGI-GWALIOR	D/C	0	1467	0.0	20.1	-20.1
39		JABALPUR-ORAI	D/C	0	893	0.0	23.9	-23.9
40		GWALIOR-ORAI	S/C	931	0	14.5	0.0	14.5
41		SATNA-ORAI	S/C	0	1412	0.0	26.3	-26.3
42		CHITTORGARH-BANASKANTHA	D/C	444	672	1.7	4.2	-2.5
43	400 kV	ZERDA-KANKROLI	S/C	180	92	1.0	0.0	1.0
44		ZERDA -BHINMAL	S/C	136	336	0.0	2.1	-2.1
45		V'CHAL -RIHAND	S/C	974	0	22.8	0.0	22.8
46		RAPP-SHUJALPUR	D/C	177	279	1	2	-2
47	220 kV	BHANPURA-RANPUR	S/C	24	85	0.5	0.4	0.1
48		BHANPURA-MORAK	S/C	40	115	0.1	1.0	-0.9
49		MEHGAON-AURAIYA	S/C	111	0	1.4	0.0	1.4
50	132kV	MALANPUR-AURAIYA	S/C	64	31	0.5	0.1	0.4
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						54.6	204.1	-149.5
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.1	-24.1
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	90	2211	0.0	26.9	-26.9
55		WARDHA-NIZAMABAD	D/C	0	2506	0.0	39.4	-39.4
56	400 kV	KOLHAPUR-KUDGI	D/C	500	279	3.5	0.7	2.7
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	85	1.7	0.0	1.7
WR-SR						5.3	91.1	-85.8
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.1
61		NEPAL						-10.3
62		BANGLADESH						-10.4