



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: 4th 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 03.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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

4-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)	48361	46147	40722	17382	2290	154902
Peak Shortage (MW)	640	0	0	0	70	710
Energy Met (MU)	985	1069	964	332	40	3390
Hydro Gen (MU)	113	39	102	33	8	295
Wind Gen (MU)	11	35	18	-----	-----	64
Solar Gen (MU)*	27.37	17.10	72.82	1.08	0.00	118
Energy Shortage (MU)	13.3	0.0	0.0	0.0	1.5	14.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50223 10:21	52494 11:01	46349 09:19	17458 18:46	2409 17:49	164606 09:19

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	0.048	0.03	1.52	8.76	10.31	74.20	15.49

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	6228	0	121.4	57.8	-1.5	115	0.0
	Haryana	6937	0	132.6	79.7	0.9	196	0.0
	Rajasthan	13864	0	240.4	74.0	-1.7	445	0.0
	Delhi	4728	0	76.6	66.9	-0.9	222	0.1
	UP	15709	0	286.8	126.6	-0.7	688	0.7
	Uttarakhand	2081	0	39.2	21.6	-0.1	110	0.0
	HP	1750	0	31.0	24.1	0.1	224	0.0
	J&K(UT) and Ladakh(UT)	2680	670	53.2	46.5	1.3	457	12.6
	Chandigarh	276	0	4.3	4.5	-0.2	5	0.0
WR	Chhattisgarh	3332	0	68.1	18.9	-2.1	240	0.0
	Gujarat	15469	0	320.7	76.6	1.1	621	0.0
	MP	12778	0	227.4	110.0	-2.7	422	0.0
	Maharashtra	20224	0	408.6	129.6	-1.7	425	0.0
	Goa	516	0	12.9	10.1	2.4	43	0.0
	DD	326	0	7.2	6.8	0.4	43	0.0
	DNH	786	0	18.6	18.6	0.0	28	0.0
	Essar steel	288	0	5.3	5.5	-0.2	216	0.0
	SR	Andhra Pradesh	8433	0	171.2	65.7	-0.3	370
Telangana		9921	0	194.9	110.7	-2.0	326	0.0
Karnataka		12173	0	217.5	61.5	-0.3	763	0.0
Kerala		3732	0	75.4	55.3	1.1	203	0.0
Tamil Nadu		14435	0	298.3	170.5	3.0	647	0.0
Pondy		366	0	7.2	7.4	-0.2	63	0.0
ER	Bihar	4252	0	76.4	74.7	0.4	105	0.0
	DVC	3071	0	61.4	-30.5	0.0	211	0.0
	Jharkhand	1295	0	22.6	19.1	-1.3	92	0.0
	Odisha	3475	0	62.9	1.1	-0.5	215	0.0
	West Bengal	5775	0	106.4	24.1	-1.0	209	0.0
	Sikkim	137	0	2.0	1.6	0.4	56	0.0
NER	Arunachal Pradesh	121	2	2.2	1.9	0.2	52	0.0
	Assam	1304	43	21.7	18.6	0.7	135	1.0
	Manipur	210	1	2.7	3.0	-0.3	33	0.0
	Meghalaya	363	0	6.2	3.2	0.6	67	0.5
	Mizoram	111	2	1.9	1.2	0.3	42	0.0
	Nagaland	124	1	2.3	2.1	0.0	19	0.0
Tripura	207	2	3.3	1.3	-0.5	24	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-8.9	-7.1
Day peak (MW)	496.7	-493.4	-548.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.2	-279.7	128.6	-89.5	-0.3	0.3
Actual(MU)	240.6	-295.6	147.2	-90.2	0.3	2.4
O/D/U/D(MU)	-0.6	-16.0	18.6	-0.6	0.6	2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4473	16133	7752	2510	732	31599
State Sector	11289	16143	8350	5250	11	41043
Total	15762	32275	16102	7760	743	72642

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	514	1203	479	417	13	2627
Lignite	23	13	49	0	0	86
Hydro	113	39	102	33	8	295
Nuclear	30	27	44	0	0	101
Gas, Naptha & Diesel	29	38	17	0	23	106
RES (Wind, Solar, Biomass & Others)	67	62	136	1	0	267
Total	776	1383	827	451	44	3481

Share of RES in total generation (%)	8.64	4.51	16.45	0.24	0.00	7.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.05	9.27	34.11	7.51	18.84	19.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.078

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 : 4-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	501	0.0	10.8	-10.8
5		PUSAULI B/B	S/C	0	299	0.0	7.2	-7.2
1	765kV	GAYA-VARANASI	D/C	20	824	0.0	9.5	-9.5
2		SASARAM-FATEHPUR	S/C	108	379	0.0	3.1	-3.1
3		GAYA-BALIA	S/C	0	407	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	S/C	0	253	0.0	7.0	-7.0
7		PUSAULI -ALLAHABAD	S/C	0	137	0.0	2.1	-2.1
8		MUZAFFARPUR-GORAKHPUR	D/C	119	597	0.0	3.9	-3.9
9		PATNA-BALIA	Q/C	0	867	0.0	15.5	-15.5
10		BIHARSHARIFF-BALIA	D/C	0	276	0.0	3.0	-3.0
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	179	234	0.0	0.2	-0.2
13		220 kV	PUSAULI-SAHUPURI	S/C	0	92	0.0	1.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
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						0.5	52.1	-51.6
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5935	0	20.1	0.0	20.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	641	100	6.1	0.0	6.1
20		JHARSUGUDA-DURG	D/C	1000118	132	0.0	0.0	0.0
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	445	27	4.3	0.0	4.3
22		RANCHI-SIPAT	D/C	262	0	3.2	0.0	3.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	21	92	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	209	0	3.2	0.0	3.2
ER-WR						36.8	1.0	35.8
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	665.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2466.0	0.0	50.9	-50.9
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2011.0	0.0	39.7	-39.7
28	400 kV	TALCHER-I/C	D/C	0.0	1431.0	0.0	11.2	-11.2
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	102.9	-102.9
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	4	283	0.0	2.9	-3
31		ALIPURDUAR-BONGAIGAON	D/C	207	102	2.4	0.0	2
32	220 kV	ALIPURDUAR-SALAKATI	D/C	25	55	0.0	0.3	0
ER-NER						2.4	3.2	-0.7
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0
NER-NR						0.0	0.0	0.0
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2305	0.0	37.5	-37.5
35		V'CHAL B/B	D/C	448	299	0.0	1.9	-1.9
36	765 kV	APL -MHG	D/C	0	1924	0.0	44.0	-44.0
37		GWALIOR-AGRA	D/C	0	2355	0.0	43.3	-43.3
38		PHAGI-GWALIOR	D/C	0	1831	0.0	19.2	-19.2
39		JABALPUR-ORAI	D/C	0	963	0.0	28.4	-28.4
40		GWALIOR-ORAI	S/C	625	0	11.4	0.0	11.4
41		SATNA-ORAI	S/C	0	1489	0.0	29.5	-29.5
42		CHITTORGARH-BANASKANTHA	D/C	196	784	0.8	3.4	-2.6
43		ZERDA-KANKROLI	S/C	158	148	0.9	0.0	0.9
44	400 kV	ZERDA -BHINMAL	S/C	212	371	0.0	1.7	-1.7
45		V'CHAL -RIHAND	S/C	983	0	21.7	0.0	21.7
46		RAPP-SHUJALPUR	D/C	166	408	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	9	91	0.5	0.3	0.2
48		BHANPURA-MORAK	S/C	24	118	0.1	1.0	-1.0
49		MEHGAON-AURAIYA	S/C	103	0	1.4	0.0	1.4
50		MALANPUR-AURAIYA	S/C	45	20	0.4	0.0	0.3
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						37.2	210.9	-173.7
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	9.6	-9.6
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2402	0.0	35.7	-35.7
55		WARDHA-NIZAMABAD	D/C	0	2613	0.0	46.2	-46.2
56	400 kV	KOLHAPUR-KUDGI	D/C	709	60	5.7	0.0	5.6
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	81	1.5	0.0	1.5
WR-SR						7.1	91.4	-84.3
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.5
61		NEPAL						-8.9
62		BANGLADESH						-7.1