



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: 11<sup>th</sup> 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 10.01.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10<sup>th</sup> 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

11-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)	48772	46710	39733	18340	2429	155984
Peak Shortage (MW)	629	0	0	140	39	808
Energy Met (MU)	989	1088	988	348	42	3455
Hydro Gen (MU)	117	35	83	32	7	274
Wind Gen (MU)	30	96	45	-----	-----	171
Solar Gen (MU)*	32.10	25.96	83.16	1.25	0.04	143
Energy Shortage (MU)	12.6	0.0	0.0	0.4	1.1	14.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50262 09:43	52613 10:29	45246 09:33	18499 18:32	2512 17:33	165576 09:32

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	0.72	4.26	4.98	73.52	21.50

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	5925	0	113.0	55.5	-1.3	61	0.0
	Haryana	6742	0	129.7	84.7	0.6	194	0.0
	Rajasthan	13706	0	243.4	63.8	-3.3	320	0.0
	Delhi	4802	0	79.7	64.5	0.5	299	0.0
	UP	16273	0	295.1	119.2	1.4	757	0.0
	Uttarakhand	2149	0	40.1	23.4	0.6	251	0.0
	HP	1671	0	30.2	24.0	-0.1	213	0.0
	J&K(UT) and Ladakh(UT)	2515	629	53.2	47.4	0.5	424	12.6
	Chandigarh	287	0	4.6	4.7	-0.1	39	0.0
WR	Chhattisgarh	3389	0	67.7	22.7	-8.9	188	0.0
	Gujarat	15204	0	313.9	68.1	-5.6	718	0.0
	MP	13317	0	236.6	110.7	-4.0	373	0.0
	Maharashtra	21202	0	427.0	138.5	-1.1	498	0.0
	Goa	511	0	13.4	10.2	2.7	43	0.0
	DD	308	0	6.3	6.4	-0.1	45	0.0
	DNH	776	0	17.6	17.7	-0.1	30	0.0
	Essar steel	319	0	5.8	6.2	-0.3	240	0.0
	SR	Andhra Pradesh	8521	0	171.5	65.2	-0.7	323
Telangana		10570	0	210.3	106.9	-0.3	228	0.0
Karnataka		12458	0	226.8	62.4	-1.0	457	0.0
Kerala		3616	0	73.4	55.7	1.5	164	0.0
Tamil Nadu		14419	0	298.5	148.6	-1.8	520	0.0
Pondy		359	0	7.3	7.6	-0.3	39	0.0
ER	Bihar	4472	0	80.2	78.1	0.9	181	0.0
	DVC	3061	0	64.9	-27.5	1.9	201	0.0
	Jharkhand	1351	0	24.4	17.6	-0.8	103	0.4
	Odisha	3574	0	65.4	8.2	0.3	205	0.0
	West Bengal	6266	0	110.9	28.2	-0.3	211	0.0
NER	Sikkim	140	0	2.0	1.6	0.4	56	0.0
	Arunachal Pradesh	119	2	2.2	1.8	0.3	6	0.0
	Assam	1371	18	22.4	19.6	-0.1	146	0.5
	Manipur	204	3	2.7	3.1	-0.4	26	0.0
	Meghalaya	377	0	6.5	3.1	0.9	90	0.5
	Mizoram	104	1	1.6	1.5	-0.1	50	0.0
	Nagaland	124	2	2.2	2.1	0.0	32	0.0
Tripura	226	0	4.1	2.5	-0.1	13	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-10.1	-7.1
Day peak (MW)	517.1	-549.2	-553.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	225.4	-271.4	116.8	-73.9	2.7	-0.4
Actual(MU)	224.3	-304.4	127.6	-60.7	5.2	-8.0
O/D/U/D(MU)	-1.1	-33.0	10.8	13.2	2.5	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4363	16140	6252	2810	732	30296
State Sector	10790	17268	6940	5250	11	40259
Total	15153	33407	13192	8060	743	70555

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	504	1162	506	399	11	2582
Lignite	16	14	44	0	0	74
Hydro	117	35	83	32	7	274
Nuclear	30	25	41	0	0	95
Gas, Naptha & Diesel	27	38	18	0	22	105
RES (Wind, Solar, Biomass & Others)	89	141	177	1	0	409
Total	783	1414	869	432	41	3539

Share of RES in total generation (%)	11.39	9.98	20.37	0.30	0.10	11.55
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.21	14.19	34.55	7.67	18.18	21.98

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 :	11-Jan-20
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	12.1	-12.1	
5		PUSAULI B/B	S/C	0	297	0.0	7.3	-7.3	
1	765kV	GAYA-VARANASI	D/C	105	918	0.0	10.2	-10.2	
2		SASARAM-FATEHPUR	S/C	145	262	0.0	1.8	-1.8	
3		GAYA-BALIA	S/C	0	398	0.0	3.3	-3.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	258	0.0	5.1	-5.1	
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	160	550	0.0	2.8	-2.8	
9		PATNA-BALIA	Q/C	0	797	0.0	11.7	-11.7	
10		BIHARSHARIFF-BALIA	D/C	26	320	0.0	2.9	-2.9	
11		MOTIHARI-GORAKHPUR	D/C	1	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	202	185	1.0	0.0	1.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	151	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	0.7	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						1.6	42.4	-40.8	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1572	0	16.3	0.0	16.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	688	0	10.0	0.0	10.0	
20		JHARSUGUDA-DURG	D/C	1000117	341	0.0	0.4	-0.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	350	186	1.8	0.0	1.8	
22		RANCHI-SIPAT	D/C	255	0	4.8	0.0	4.8	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	26	87	0.0	0.9	-0.9	
24		BUDHIPADAR-KORBA	D/C	216	0	3.1	0.0	3.1	
ER-WR						36.1	1.3	34.8	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.2	-16.2	
27		TALCHER-KOLAR BIPOLE	D/C	17.0	2460.0	0.0	15.3	-15.3	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2014.0	0.0	39.2	-39.2	
28	400 kV	TALCHER-I/C	D/C	1604.0	1472.0	18.4	0.0	18.4	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	70.6	-70.6	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	408	0.0	5.3	-5	
31		ALIPURDUAR-BONGAIGAON	D/C	137	178	0.1	0.0	0	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	6	80	0.0	0.7	-1	
ER-NER						0.1	6.0	-5.9	
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	2359	0.0	42.5	-42.5	
35		VCHAL B/B	D/C	449	0	6.5	0.0	6.5	
36	765 kV	APL -MHG	D/C	0	1924	0.0	43.6	-43.6	
37		GWALIOR-AGRA	D/C	0	2608	0.0	43.8	-43.8	
38		PHAGI-GWALIOR	D/C	0	1399	0.0	15.6	-15.6	
39		JABALPUR-ORAI	D/C	0	975	0.0	30.5	-30.5	
40		GWALIOR-ORAI	S/C	723	0	10.7	0.0	10.7	
41		SATNA-ORAI	S/C	0	1446	0.0	27.9	-27.9	
42		CHITTORGARH-BANASKANTHA	D/C	193	992	0.0	10.0	-10.0	
43		ZERDA-KANKROLI	S/C	175	128	0.3	0.0	0.3	
44	400 kV	ZERDA -BHINMAL	S/C	259	238	0.0	0.8	-0.8	
45		VCHAL-RIHAND	S/C	971	0	22.2	0.0	22.2	
46		RAPP-SHUJALPUR	D/C	226	329	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	31	57	0.4	0.4	0.0	
48		BHANPURA-MORAK	S/C	19	118	0.0	1.1	-1.1	
49		MEHGAON-AURAIYA	S/C	86	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	37	38	0.1	0.2	0.0	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						41.2	216.4	-175.2	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.9	-23.9	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2357	0.0	31.1	-31.1	
55		WARDHA-NIZAMABAD	D/C	0	2256	0.0	40.7	-40.7	
56	400 kV	KOLHAPUR-KUDGI	D/C	658	0	6.2	0.0	6.2	
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	90	1.7	0.0	1.7	
WR-SR						7.9	95.7	-87.8	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.5	
61		NEPAL						-10.1	
62		BANGLADESH						-7.1	