



**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: 8<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., डोंगतेह, 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 07.01.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07<sup>th</sup> 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

8-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)	48692	48023	39584	18295	2452	157046
Peak Shortage (MW)	595	0	0	0	29	624
Energy Met (MU)	972	1124	959	345	41	3442
Hydro Gen (MU)	111	62	93	34	8	307
Wind Gen (MU)	14	37	46	-----	-----	98
Solar Gen (MU)*	12.98	18.40	63.26	1.36	0.03	96
Energy Shortage (MU)	11.9	0.0	0.0	0.0	0.9	12.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48476 18:50	54397 11:01	47471 07:43	18334 18:22	2518 17:30	165369 09:31

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	0.043	0.00	1.05	9.62	10.67	76.68	12.65

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	5698	0	112.0	58.4	-0.8	127	0.0
	Haryana	6570	0	124.7	76.9	-0.2	110	0.0
	Rajasthan	13672	0	242.6	77.1	-1.3	477	0.0
	Delhi	4338	0	74.5	62.8	-0.1	198	0.0
	UP	15897	0	292.3	124.5	-0.9	835	0.0
	Uttarakhand	2086	0	40.3	24.8	-0.2	70	0.1
	HP	1688	0	31.3	24.5	0.1	176	0.0
	J&K(UT) and Ladakh(UT)	2389	597	49.9	43.7	0.9	304	11.8
	Chandigarh	275	0	4.7	4.6	0.1	40	0.0
WR	Chhattisgarh	3553	0	75.8	19.1	-1.4	244	0.0
	Gujarat	15651	0	324.5	88.0	0.4	734	0.0
	MP	13747	0	242.4	124.9	-2.8	475	0.0
	Maharashtra	21596	0	437.2	140.9	2.7	736	0.0
	Goa	591	0	11.0	10.7	-0.2	95	0.0
	DD	327	0	7.3	7.0	0.3	45	0.0
	DNH	810	0	18.9	18.9	0.0	48	0.0
	Essar steel	360	0	6.5	6.4	0.1	269	0.0
	SR	Andhra Pradesh	7668	0	161.3	61.6	-0.8	376
Telangana		10851	0	209.3	112.6	0.8	588	0.0
Karnataka		11770	0	215.4	56.0	-1.9	479	0.0
Kerala		3725	0	74.4	57.0	0.9	183	0.0
Tamil Nadu		13878	0	291.7	150.1	-1.5	489	0.0
Pondy		357	0	7.4	7.6	-0.2	33	0.0
ER	Bihar	4320	0	79.7	77.8	0.3	150	0.0
	DVC	3074	0	64.3	-31.9	0.0	400	0.0
	Jharkhand	1309	0	24.2	16.3	-1.3	100	0.0
	Odisha	3687	0	66.0	0.2	0.5	300	0.0
	West Bengal	6327	0	109.1	27.4	-0.4	200	0.0
	Sikkim	142	0	2.1	1.4	0.7	40	0.0
NER	Arunachal Pradesh	122	2	2.2	1.9	0.2	66	0.0
	Assam	1376	10	22.4	18.6	0.5	181	0.1
	Manipur	205	3	2.6	3.1	-0.5	26	0.0
	Meghalaya	366	0	6.4	3.1	0.9	35	0.7
	Mizoram	105	1	1.7	1.4	0.2	39	0.0
	Nagaland	126	1	2.2	2.1	0.0	25	0.0
Tripura	226	1	3.5	1.6	1.0	95	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.8	-9.8	-10.0
Day peak (MW)	543.6	-579.0	-757.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.5	-277.9	120.3	-83.7	-0.1	0.2
Actual(MU)	233.0	-279.9	124.4	-76.2	2.6	4.0
O/D/U/D(MU)	-8.5	-2.0	4.2	7.4	2.6	3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4093	15565	7982	2310	757	30706
State Sector	10506	16348	7650	5940	11	40455
Total	14599	31912	15632	8250	768	71161

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	522	1218	492	417	14	2663
Lignite	19	13	44	0	0	76
Hydro	111	62	93	34	8	307
Nuclear	29	28	40	0	0	97
Gas, Naptha & Diesel	23	39	18	0	22	101
RES (Wind, Solar, Biomass & Others)	56	70	159	1	0	286
Total	761	1428	846	453	43	3531

Share of RES in total generation (%)	7.40	4.89	18.79	0.31	0.07	8.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.79	11.15	34.52	7.81	18.07	19.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.082

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 :	8-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	600	0.0	11.8	-11.8	
5		PUSAULI B/B	S/C	0	297	0.0	7.1	-7.1	
1	765kV	GAYA-VARANASI	D/C	0	956	0.0	7.9	-7.9	
2		SASARAM-FATEHPUR	S/C	76	372	0.0	2.8	-2.8	
3		GAYA-BALIA	S/C	0	584	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	269	0.0	5.0	-5.0	
7		PUSAULI -ALLAHABAD	S/C	0	136	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	80	654	0.0	4.4	-4.4	
9		PATNA-BALIA	Q/C	0	867	0.0	14.2	-14.2	
10		BIHARSHARIFF-BALIA	D/C	24	387	0.0	4.7	-4.7	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	141	309	0.0	0.6	-0.6	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	121	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	51.5	-50.8	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5496	0	22.6	0.0	22.6	
19		NEW RANCHI-DHARAMJAIGARH	D/C	648	24	9.6	0.0	9.6	
20		JHARSUGUDA-DURG	D/C	151	151	0.7	0.0	0.7	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	288	109	1.9	0.0	1.9	
22		RANCHI-SIPAT	D/C	252	0	3.7	0.0	3.7	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	9	100	0.0	1.1	-1.1	
24		BUDHIPADAR-KORBA	D/C	197	0	3.4	0.0	3.4	
ER-WR						41.9	1.1	40.8	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	666.0	0.0	16.2	-16.2	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2468.0	0.0	44.7	-44.7	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1998.0	0.0	29.1	-29.1	
28	400 kV	TALCHER-I/C	D/C	264.0	973.0	0.0	6.5	-6.5	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	90.0	-90.0	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	337	0.0	3.8	-4	
31		ALIPURDUAR-BONGAIGAON	D/C	181	118	1.5	0.0	2	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	10	66	0.0	0.5	-1	
ER-NER						1.5	4.3	-2.8	
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	2003	0.0	34.6	-34.6	
35		VCHAL B/B	D/C	448	492	2.4	0.0	2.4	
36		APL -MHG	D/C	0	1922	0.0	37.8	-37.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2457	0.0	42.6	-42.6	
38		PHAGI-GWALIOR	D/C	0	1770	0.0	22.6	-22.6	
39		JABALPUR-ORAI	D/C	0	996	0.0	29.3	-29.3	
40		GWALIOR-ORAI	S/C	709	0	5.7	0.0	5.7	
41		SATNA-ORAI	S/C	0	1450	0.0	28.4	-28.4	
42		CHITTORGARH-BANASKANTHA	D/C	300	851	0.0	4.6	-4.6	
43	400 kV	ZERDA-KANKROLI	S/C	170	133	0.8	0.0	0.8	
44		ZERDA -BHINMAL	S/C	193	266	0.0	1.7	-1.7	
45		VCHAL -RIHAND	S/C	981	0	24.8	0.0	24.8	
46		RAPP-SHUJALPUR	D/C	156	417	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	22	86	0.6	0.3	0.3	
48		BHANPURA-MORAK	S/C	24	122	0.1	0.9	-0.9	
49		MEHGAON-AURAIYA	S/C	91	0	1.2	0.0	1.2	
50	132kV	MALANPUR-AURAIYA	S/C	33	27	0.2	0.1	0.1	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						35.8	205.1	-169.3	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1016	0.0	21.2	-21.2	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	538	2191	0.0	22.5	-22.5	
55		WARDHA-NIZAMABAD	D/C	0	2363	0.0	33.5	-33.5	
56	400 kV	KOLHAPUR-KUDGI	D/C	568	42	4.9	0.0	4.9	
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	1	83	1.1	0.0	1.1	
WR-SR						6.0	77.2	-71.2	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						3.8	
61		NEPAL						-9.8	
62		BANGLADESH						-10.0	