



**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: 5<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 04.01.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04<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

5-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)	48126	46045	39977	17714	2367	154229
Peak Shortage (MW)	609	0	0	0	26	635
Energy Met (MU)	985	1075	952	337	40	3388
Hydro Gen (MU)	116	44	94	36	9	299
Wind Gen (MU)	3	36	14	-----	-----	53
Solar Gen (MU)*	26.93	18.80	75.11	1.13	0.03	122
Energy Shortage (MU)	12.8	0.0	0.0	0.0	1.3	14.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50126 09:54	52336 10:40	45248 08:48	17930 19:02	2428 17:32	163488 09:52

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	0.037	0.00	0.49	6.69	7.18	78.41	14.41

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	6159	0	118.0	59.6	-2.0	8	0.0
	Haryana	6900	0	132.1	81.7	-0.1	184	0.0
	Rajasthan	13658	0	241.9	79.8	-1.6	288	0.0
	Delhi	4215	0	71.1	60.7	-0.7	255	0.0
	UP	15743	0	294.2	121.0	-1.7	532	0.0
	Uttarakhand	2102	0	40.1	22.6	0.7	151	0.0
	HP	1635	7	30.1	24.1	-0.6	90	0.1
	J&K(UT) and Ladakh(UT)	2934	734	53.3	45.6	2.3	620	12.7
	Chandigarh	246	0	4.0	4.0	0.1	28	0.0
WR	Chhattisgarh	3414	0	73.1	19.1	-0.3	578	0.0
	Gujarat	15441	0	319.4	83.3	0.8	583	0.0
	MP	12714	0	230.3	116.7	-4.5	471	0.0
	Maharashtra	20301	0	408.1	129.5	-3.2	666	0.0
	Goa	491	0	12.7	9.8	2.3	40	0.0
	DD	317	0	7.2	6.7	0.5	41	0.0
	DNH	786	0	18.3	18.4	-0.1	39	0.0
	Essar steel	307	0	5.7	5.4	0.3	306	0.0
	SR	Andhra Pradesh	8004	0	166.4	67.4	-0.6	429
Telangana		9618	0	191.9	99.8	1.0	530	0.0
Karnataka		12205	0	217.4	57.5	0.0	612	0.0
Kerala		3654	0	74.9	57.6	0.8	228	0.0
Tamil Nadu		14397	0	294.2	171.0	0.8	485	0.0
Pondy		351	0	7.0	7.4	-0.4	40	0.0
ER		Bihar	4258	0	75.3	74.9	-0.9	250
	DVC	3043	0	63.2	-30.7	-0.3	200	0.0
	Jharkhand	1232	0	23.9	19.1	-0.7	100	0.0
	Odisha	3534	0	64.0	0.0	-0.5	200	0.0
	West Bengal	5978	0	109.3	24.1	-0.3	200	0.0
	Sikkim	123	0	1.5	1.6	-0.1	50	0.0
NER	Arunachal Pradesh	123	1	2.2	2.1	0.0	32	0.0
	Assam	1343	17	21.4	18.2	-0.4	130	0.7
	Manipur	215	2	2.5	2.9	-0.4	48	0.0
	Meghalaya	368	0	6.1	3.1	0.6	68	0.5
	Mizoram	106	1	1.8	1.4	0.0	18	0.0
	Nagaland	128	2	2.3	2.0	0.1	16	0.0
	Tripura	218	0	3.3	1.4	-0.4	48	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.0	-7.9	-9.1
Day peak (MW)	561.6	-451.0	-756.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	239.1	-264.9	115.8	-89.3	-0.8	-0.1
Actual(MU)	224.3	-279.7	136.9	-84.2	-0.5	-3.2
O/D/U/D(MU)	-14.8	-14.9	21.1	5.2	0.3	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4627	15883	7472	2510	732	31223
State Sector	11789	16996	8600	5050	11	42446
Total	16416	32878	16072	7560	743	73669

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	522	1187	537	421	13	2680
Lignite	25	14	43	0	0	81
Hydro	116	44	94	36	9	299
Nuclear	30	27	44	0	0	101
Gas, Naptha & Diesel	28	38	18	0	23	107
RES (Wind, Solar, Biomass & Others)	58	63	89	1	0	211
Total	778	1373	824	458	45	3479

Share of RES in total generation (%)	7.48	4.57	10.78	0.25	0.07	6.07
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.21	9.76	27.54	8.16	19.07	17.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
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 : 5-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)
<b>Import/Export of ER (With NR)</b>								
4	HVDC	ALIPURDUAR-AGRA	-	0	501	0.0	11.9	-11.9
5		PUSAULI B/B	S/C	0	297	0.0	7.1	-7.1
1	765kV	GAYA-VARANASI	D/C	18	841	0.0	9.8	-9.8
2		SASARAM-FATEHPUR	S/C	68	363	0.0	3.5	-3.5
3		GAYA-BALIA	S/C	0	415	0.0	6.3	-6.3
6	400 kV	PUSAULI-VARANASI	S/C	0	241	0.0	4.7	-4.7
7		PUSAULI -ALLAHABAD	S/C	0	141	0.0	2.9	-2.9
8		MUZAFFARPUR-GORAKHPUR	D/C	70	697	0.0	5.0	-5.0
9		PATNA-BALIA	Q/C	0	867	0.0	13.3	-13.3
10		BIHARSHARIFF-BALIA	D/C	26	308	0.0	2.9	-2.9
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	155	260	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	96	0.0	1.2	-1.2
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
<b>ER-NR</b>						<b>0.7</b>	<b>49.9</b>	<b>-49.3</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1568	0	20.9	0.0	20.9
19		NEW RANCHI-DHARAMJAIGARH	D/C	562	71	6.5	0.0	6.5
20		JHARSUGUDA-DURG	D/C	134	76	0.4	0.0	0.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	298	101	2.7	0.0	2.7
22		RANCHI-SIPAT	D/C	239	0	3.0	0.0	3.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	91	0.0	1.2	-1.2
24		BUDHIPADAR-KORBA	D/C	185	0	3.1	0.0	3.1
<b>ER-WR</b>						<b>36.5</b>	<b>1.2</b>	<b>35.3</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	666.0	0.0	15.2	-15.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2462.0	0.0	49.6	-49.6
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1934.0	0.0	34.5	-34.5
28	400 kV	TALCHER-I/C	D/C	0.0	1376.0	0.0	9.0	-9.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>99.3</b>	<b>-99.3</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	239	0.0	2.6	-3
31		ALIPURDUAR-BONGAIGAON	D/C	235	5	3.0	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	26	44	0.0	0.2	0
<b>ER-NER</b>						<b>3.0</b>	<b>2.7</b>	<b>0.2</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0
<b>NER-NR</b>						<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2353	0.0	34.0	-34.0
35		VCHAL B/B	D/C	360	0	8.8	0.0	8.8
36		APL -MHG	D/C	0	1924	0.0	44.7	-44.7
37	765 kV	GWALIOR-AGRA	D/C	0	2538	0.0	44.6	-44.6
38		PHAGI-GWALIOR	D/C	0	1847	0.0	20.8	-20.8
39		JABALPUR-ORAI	D/C	0	908	0.0	30.0	-30.0
40		GWALIOR-ORAI	S/C	640	0	10.1	0.0	10.1
41		SATNA-ORAI	S/C	0	1435	0.0	29.4	-29.4
42		CHITTORGARH-BANASKANTHA	D/C	392	582	1.7	2.7	-1.1
43	400 kV	ZERDA-KANKROLI	S/C	159	108	1.0	0.0	1.0
44		ZERDA -BHINMAL	S/C	90	359	0.0	2.5	-2.5
45		VCHAL -RIHAND	S/C	972	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	107	385	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	12	92	0.3	0.4	-0.1
48		BHANPURA-MORAK	S/C	11	126	0.0	1.2	-1.2
49		MEHGAON-AURAIYA	S/C	91	0	1.4	0.0	1.4
50	132kV	MALANPUR-AURAIYA	S/C	39	21	0.3	0.0	0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>46.0</b>	<b>211.7</b>	<b>-165.7</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.2	-12.2
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	135	2181	0.0	30.9	-30.9
55		WARDHA-NIZAMABAD	D/C	0	2427	0.0	43.4	-43.4
56	400 kV	KOLHAPUR-KUDGI	D/C	529	74	6.0	0.0	6.0
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	1	75	1.4	0.0	1.4
<b>WR-SR</b>						<b>7.5</b>	<b>86.6</b>	<b>-79.1</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						5.0
61		NEPAL						-7.9
62		BANGLADESH						-9.1