



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: 05<sup>th</sup> Dec 2019

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 04.12.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-दिसम्बर-2019 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 04<sup>rd</sup> Dec 2019, 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

5-Dec-19

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)	44302	48022	36574	18018	2394	149310
Peak Shortage (MW)	540	40	0	0	47	627
Energy Met (MU)	868	1145	820	339	40	3212
Hydro Gen (MU)	130	51	69	38	8	296
Wind Gen (MU)	10	67	63	-----	-----	140
Solar Gen (MU)*	29.08	18.8	62.04	1.89	0.04	112
Energy Shortage (MU)	11.7	0.3	0.0	0.0	0.5	12.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44607 18:37	53763 10:34	39248 18:53	18100 18:02	2478 18:02	152488 18:24

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	0.042	0.00	0.00	3.06	3.06	65.30	31.64

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	5742	0	107.9	50.9	-1.0	46	0.0
	Haryana	6053	0	118.6	100.5	1.3	170	0.0
	Rajasthan	11832	0	220.4	65.6	0.3	336	0.0
	Delhi	3583	0	62.6	52.0	-0.7	148	0.0
	UP	13944	0	245.0	100.1	0.5	1198	0.9
	Uttarakhand	1895	0	35.4	19.5	0.5	111	0.0
	HP	1668	0	29.6	21.4	0.5	105	0.1
	J&K	2160	540	45.3	38.4	-0.6	201	10.7
WR	Chhattisgarh	195	0	3.2	3.4	-0.2	0	0.0
	Chhattisgarh	3432	40	71.5	24.1	0.9	470	0.3
	Gujarat	15389	0	330.8	89.8	-1.7	847	0.0
	MP	13461	0	251.9	143.8	-3.3	419	0.0
	Maharashtra	21053	0	445.8	140.2	-3.9	834	0.0
	Goa	541	0	12.4	11.6	0.2	50	0.0
	DD	333	0	7.4	6.7	0.7	56	0.0
	DNH	809	0	18.8	18.6	0.2	63	0.0
SR	Essar steel	335	0	6.2	5.7	0.5	295	0.0
	Andhra Pradesh	7237	0	153.2	78.2	-0.3	421	0.0
	Telangana	8125	0	165.9	69.3	2.0	585	0.0
	Karnataka	9088	0	172.9	32.0	-0.3	445	0.0
	Kerala	3652	0	70.2	55.6	1.3	182	0.0
	Tamil Nadu	12591	0	251.7	147.1	-1.2	495	0.0
	Pondy	342	0	6.5	7.3	-0.8	48	0.0
	ER	Bihar	3881	0	65.1	65.8	-2.1	300
DVC		2929	0	59.3	-30.3	0.5	305	0.0
Jharkhand		1215	0	23.8	17.0	-1.2	31	0.0
Odisha		4173	0	79.4	15.4	1.2	488	0.0
West Bengal		6198	0	110.1	25.0	0.7	395	0.0
NER	Sikkim	106	0	1.7	1.6	0.1	50	0.0
	Arunachal Pradesh	129	7	2.1	1.5	0.5	23	0.0
	Assam	1368	40	22.2	17.4	0.2	134	0.5
	Manipur	180	6	2.5	2.7	-0.2	23	0.0
	Meghalaya	329	2	6.0	2.8	0.4	63	0.0
	Mizoram	107	7	1.7	0.9	0.5	15	0.0
	Nagaland	132	6	2.2	2.1	-0.1	15	0.0
Tripura	249	12	3.3	1.7	-0.4	34	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.1	-4.2	-8.7
Day peak (MW)	628.9	-308.3	-559.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.0	-197.3	98.8	-102.5	-1.0	-0.1
Actual(MU)	194.1	-196.5	96.0	-97.2	0.4	-3.1
O/D/U/D(MU)	-7.9	0.8	-2.7	5.3	1.4	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5940	16837	7262	1470	618	32127
State Sector	13495	17858	11370	5700	11	48434
Total	19435	34695	18632	7170	629	80561

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	422	1106	385	418	12	2343
Lignite	23	16	41	0	0	79
Hydro	130	51	69	38	8	296
Nuclear	24	28	51	0	0	103
Gas, Naptha & Diesel	24	51	15	0	23	114
RES (Wind, Solar, Biomass & Others)	65	99	167	2	0	333
Total	688	1350	728	458	44	3268

Share of RES in total generation (%)	9.48	7.30	22.98	0.42	0.09	10.20
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.89	13.10	39.42	8.73	19.35	22.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
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-Dec-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	941	0.0	11.0	-11.0	
2		SASARAM-FATEHPUR	S/C	0	237	0.0	5.5	-5.5	
3		GAYA-BALIA	S/C	0	446	0.0	7.4	-7.4	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	4.6	-4.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	142	0.0	2.5	-2.5	
7		PUSAULI -ALLAHABAD	S/C	0	158	0.0	2.1	-2.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1072	0.0	14.0	-14.0	
9		PATNA-BALIA	Q/C	0	932	0.0	16.9	-16.9	
10		BIHARSHARIFF-BALIA	D/C	0	459	0.0	7.6	-7.6	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	414	0.0	4.1	-4.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	3	112	0.0	1.3	-1.3	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
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>0.3</b>	<b>76.9</b>	<b>-76.6</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1151	84	13.1	0.0	13.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	387	469	0.0	0.9	-0.9	
20		JHARSUGUDA-DURG	D/C	7	255	0.0	3.1	-3.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	680	132	7.0	0.0	7.0	
22		RANCHI-SIPAT	D/C	207	132	1.0	0.0	1.0	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	99	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	153	16	1.4	0.0	1.4	
						<b>ER-WR</b>	<b>22.6</b>	<b>5.4</b>	<b>17.2</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1825.0	0.0	30.9	-30.9	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	617.0	0.0	12.4	-12.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2464.0	0.0	47.4	-47.4	
28	400 kV	TALCHER-I/C	D/C	338.0	997.0	0.0	8.8	-8.8	
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>90.7</b>	<b>-90.7</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	281	16	4.1	0.0	4	
31		ALIPURDUAR-BONGAIGAON	D/C	356	0	4.7	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	58	22	0.6	0.0	1	
						<b>ER-NER</b>	<b>9.4</b>	<b>0.0</b>	<b>9.4</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	492	0	10.0	0.0	10.0	
						<b>NER-NR</b>	<b>10.0</b>	<b>0.0</b>	<b>10.0</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	855	0.0	24.6	-24.6	
35		V'CHAL B/B	D/C	452	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1550	0.0	31.1	-31.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2122	0.0	37.5	-37.5	
38		PHAGI-GWALIOR	D/C	0	1494	0.0	20.8	-20.8	
39		JABALPUR-ORAI	D/C	0	794	0.0	23.5	-23.5	
40		GWALIOR-ORAI	S/C	585	0	10.2	0.0	10.2	
41		SATNA-ORAI	S/C	0	1304	0.0	26.6	-26.6	
42		CHITTORGARH-BANASKANTHA	D/C	0	1243	0.0	10.6	-10.6	
43		ZERDA-KANKROLI	S/C	107	221	0.4	0.0	0.4	
44	400 kV	ZERDA -BHINMAL	S/C	77	422	2.8	0.0	2.8	
45		V'CHAL -RIHAND	S/C	981	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	128	280	0	1	-1	
47		BHANPURA-RANPUR	S/C	11	79	0.4	0.1	0.3	
48		BHANPURA-MORAK	S/C	0	156	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	117	0	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	69	13	0.3	0.0	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>50.2</b>	<b>177.8</b>	<b>-127.5</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	985	0.0	18.4	-18.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	572	1916	1.5	15.5	-14.0	
55		WARDHA-NIZAMABAD	D/C	1387	2005	0.0	33.0	-33.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	920	0	13.2	0.0	13.2	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	71	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	79	1.4	0.0	1.4	
						<b>WR-SR</b>	<b>16.1</b>	<b>68.1</b>	<b>-52.0</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						7.1	
61		NEPAL						-4.2	
62		BANGLADESH						-8.7	