



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: 06th 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., 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 05.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-दिसम्बर-2019 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 05rd 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

6-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)	44633	48497	36745	17909	2374	150158
Peak Shortage (MW)	575	0	0	0	60	635
Energy Met (MU)	883	1157	834	339	39	3252
Hydro Gen (MU)	141	58	78	39	9	324
Wind Gen (MU)	19	61	48	-----	-----	127
Solar Gen (MU)*	26.70	17.6	62.84	1.84	0.05	109
Energy Shortage (MU)	11.8	0.0	0.0	0.0	0.4	12.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45103 18:19	53904 09:19	39387 18:56	18007 17:57	2538 17:26	152508 18:34

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	0.041	0.00	0.13	5.17	5.30	70.08	24.62

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	5768	0	112.0	55.8	-1.6	33	0.0
	Haryana	6061	0	119.4	102.3	0.8	176	0.0
	Rajasthan	12203	0	222.7	67.5	-0.1	372	0.0
	Delhi	3526	0	63.5	52.8	-1.1	133	0.0
	UP	14081	0	250.4	100.5	1.2	691	1.5
	Uttarakhand	1870	0	35.3	19.8	-0.4	123	0.0
	HP	1687	0	29.9	21.8	0.4	138	0.0
	J&K	2300	575	46.4	38.4	0.5	201	10.4
	Chandigarh	210	0	3.5	3.5	0.0	35	0.0
WR	Chhattisgarh	3500	0	73.1	22.5	0.7	280	0.0
	Gujarat	15697	0	336.3	92.3	2.1	658	0.0
	MP	13659	0	253.1	144.9	-2.3	419	0.0
	Maharashtra	21682	0	449.6	132.7	-5.3	458	0.0
	Goa	541	0	12.4	11.8	0.0	41	0.0
	DD	332	0	7.4	6.8	0.6	49	0.0
	DNH	821	0	18.9	18.8	0.1	53	0.0
	Essar steel	306	0	5.9	5.7	0.2	295	0.0
	Andhra Pradesh	7332	0	156.4	77.4	0.9	236	0.0
SR	Telangana	8178	0	172.5	75.8	0.4	573	0.0
	Karnataka	9384	0	174.5	33.3	-1.1	1057	0.0
	Kerala	3460	0	69.8	56.6	0.8	199	0.0
	Tamil Nadu	12693	0	254.2	154.1	-0.3	638	0.0
	Pondy	341	0	6.7	7.4	-0.7	47	0.0
	Bihar	3938	0	66.2	65.7	-0.8	110	0.0
ER	DVC	3075	0	60.9	-33.2	-0.4	180	0.0
	Jharkhand	1292	0	24.4	16.9	-0.9	31	0.0
	Odisha	4113	0	75.1	10.0	1.6	220	0.0
	West Bengal	6178	0	110.4	25.4	0.6	270	0.0
	Sikkim	100	0	1.6	1.5	0.1	40	0.0
	Arunachal Pradesh	128	7	2.1	2.1	0.0	38	0.0
NER	Assam	1411	47	21.5	17.1	-0.5	161	0.4
	Manipur	172	6	2.3	2.7	-0.4	35	0.0
	Meghalaya	366	5	5.9	2.8	0.4	14	0.0
	Mizoram	106	7	1.8	0.9	0.6	10	0.0
	Nagaland	122	5	2.2	2.1	-0.1	54	0.0
	Tripura	232	11	3.4	1.6	-0.3	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.5	-4.6	-11.6
Day peak (MW)	618.4	-325.0	-852.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	212.7	-200.0	95.8	-107.7	-0.7	0.1
Actual(MU)	200.8	-197.5	102.0	-108.8	-1.3	-4.8
O/D/U/D(MU)	-12.0	2.5	6.3	-1.1	-0.6	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5802	17337	7262	1470	813	32685
State Sector	13955	17635	11150	6360	11	49111
Total	19757	34972	18412	7830	825	81796

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	413	1103	394	424	12	2346
Lignite	22	30	46	0	0	98
Hydro	141	49	78	39	9	316
Nuclear	28	14	57	0	0	99
Gas, Naptha & Diesel	24	49	15	0	24	113
RES (Wind, Solar, Biomass & Others)	73	132	152	2	0	358
Total	701	1377	741	465	44	3329

Share of RES in total generation (%)	10.37	9.59	20.46	0.41	0.11	10.77
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.51	14.17	38.62	8.81	19.55	23.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.094

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 : 6-Dec-19	
								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)									
1	765kV	GAYA-VARANASI	D/C	0	794	0.0	11.4	-11.4	
2		SASARAM-FATEHPUR	S/C	0	237	0.0	5.9	-5.9	
3		GAYA-BALIA	S/C	0	428	0.0	7.9	-7.9	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	200	0.0	3.7	-3.7	
7		PUSAULI -ALLAHABAD	S/C	0	132	0.0	1.0	-1.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1038	0.0	13.1	-13.1	
9		PATNA-BALIA	Q/C	0	1048	0.0	20.1	-20.1	
10		BIHARSHARIFF-BALIA	D/C	0	497	0.0	7.8	-7.8	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	418	0.0	4.1	-4.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	93	0.0	1.4	-1.4	
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	
						ER-NR	0.3	81.1	-80.8
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	985	267	8.9	0.0	8.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	345	486	0.0	0.1	-0.1	
20		JHARSUGUDA-DURG	D/C	19	282	0.0	3.1	-3.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	215	189	0.0	0.0	0.0	
22		RANCHI-SIPAT	D/C	148	143	0.3	0.0	0.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	113	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	121	0	1.7	0.0	1.7	
						ER-WR	10.9	4.7	6.2
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1717.0	0.0	31.1	-31.1	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	711.0	0.0	12.5	-12.5	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2468.0	0.0	41.9	-41.9	
28	400 kV	TALCHER-I/C	D/C	412.0	706.0	0.0	2.1	-2.1	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	85.4	-85.4
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	251	163	3.1	0.0	3	
31		ALIPURDUAR-BONGAIGAON	D/C	288	27	3.1	0.0	3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	44	39	0.3	0.0	0	
						ER-NER	6.5	0.0	6.5
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	480	0	7.6	0.0	7.6	
						NER-NR	7.6	0.0	7.6
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	949	0.0	21.6	-21.6	
35		V'CHAL B/B	D/C	452	0	12.2	0.0	12.2	
36		APL -MHG	D/C	0	1551	0.0	38.7	-38.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2046	0.0	37.6	-37.6	
38		PHAGI-GWALIOR	D/C	0	1555	0.0	20.6	-20.6	
39		JABALPUR-ORAI	D/C	0	793	0.0	25.1	-25.1	
40		GWALIOR-ORAI	S/C	553	0	9.6	0.0	9.6	
41		SATNA-ORAI	S/C	0	1298	0.0	27.5	-27.5	
42		CHITTORGARH-BANASKANTHA	D/C	248	831	0.0	4.5	-4.5	
43		ZERDA-KANKROLI	S/C	164	261	0.2	0.0	0.2	
44	400 kV	ZERDA -BHINMAL	S/C	126	467	0.0	1.6	-1.6	
45		V'CHAL -RIHAND	S/C	986	0	22.5	0.0	22.5	
46	220 kV	RAPP-SHUJALPUR	D/C	210	242	0	0	0	
47		BHANPURA-RANPUR	S/C	27	84	0.6	0.1	0.4	
48		BHANPURA-MORAK	S/C	2	154	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	105	0	1.1	0.0	1.1	
50		MALANPUR-AURAIYA	S/C	60	14	0.3	0.0	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	46.3	179.4	-133.1
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	982	0.0	15.7	-15.7	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	233	2095	0.1	18.3	-18.2	
55		WARDHA-NIZAMABAD	D/C	0	2351	0.0	34.1	-34.1	
56	400 kV	KOLHAPUR-KUDGI	D/C	751	47	11.3	0.0	11.3	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	65	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	73	1.4	0.0	1.4	
						WR-SR	12.8	69.3	-56.4
TRANSNATIONAL EXCHANGE									
60		BHUTAN						7.5	
61		NEPAL						-4.6	
62		BANGLADESH						-11.6	

06-12-19 10:00 AM

States	Shortage during maximum Demand		Energy Shortage		Maximum Demand (MW)	Peak Requirements (MW)	Energy Available (MU)	Energy Requirements (MU)
	MW	%	MU	%				
Punjab	0	0.0%	0.0	0.0%	5768	5768	112	112
Haryana	0	0.0%	0.0	0.0%	6061	6061	119	119
Rajasthan	0	0.0%	0.0	0.0%	12203	12203	223	223
Delhi	0	0.0%	0.0	0.0%	3526	3526	63	63
UP	0	0.0%	1.5	0.6%	14081	14081	250	252
Uttarakhand	0	0.0%	0.0	0.0%	1870	1870	35	35
HP	0	0.0%	0.0	0.0%	1687	1687	30	30
J&K	575	20.0%	10.4	18.3%	2300	2874	46	57
Chandigarh	0	0.0%	0.0	0.0%	210	210	4	4
Chhattisgarh	0	0.0%	0.0	0.0%	3500	3500	73	73
Gujarat	0	0.0%	0.0	0.0%	15697	15697	336	336
MP	0	0.0%	0.0	0.0%	13659	13659	253	253
Maharashtra	0	0.0%	0.0	0.0%	21682	21682	450	450
Goa	0	0.0%	0.0	0.0%	541	541	12	12
DD	0	0.0%	0.0	0.0%	332	332	7	7
DNH	0	0.0%	0.0	0.0%	821	821	19	19
Essar steel	0	0.0%	0.0	0.0%	306	306	6	6
Andhra Pradesh	0	0.0%	0.0	0.0%	7332	7332	156	156
Telangana	0	0.0%	0.0	0.0%	7332	7332	172	172
Karnataka	0	0.0%	0.0	0.0%	9384	9384	175	175
Kerala	0	0.0%	0.0	0.0%	3460	3460	70	70
Tamil Nadu	0	0.0%	0.0	0.0%	12693	12693	254	254
Pondy	0	0.0%	0.0	0.0%	341	341	7	7
Bihar	0	0.0%	0.0	0.0%	3938	3938	66	66
DVC	0	0.0%	0.0	0.0%	3075	3075	61	61
Jharkhand	0	0.0%	0.0	0.0%	1292	1292	24	24
Odisha	0	0.0%	0.0	0.0%	4113	4113	75	75
West Bengal	0	0.0%	0.0	0.0%	6178	6178	110	110
Sikkim	0	0.0%	0.0	0.0%	100	100	2	2
Arunachal Pradesh	0	0.0%	0.0	0.5%	128	128	2	2
Assam	47	3.2%	0.4	1.7%	1411	1458	21	22
Manipur	6	3.4%	0.0	0.4%	172	178	2	2
Meghalaya	5	1.3%	0.0	0.0%	366	371	6	6
Mizoram	7	6.2%	0.0	0.5%	106	113	2	2
Nagaland	5	3.9%	0.0	0.0%	122	127	2	2
Tripura	11	4.5%	0.0	0.0%	232	243	3	3
All India	635	0.4%	12.2	0.4%	150158	150793	3251.6	3264