



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: 04th 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 03.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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

4-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)	43442	47512	36249	18506	2314	148023
Peak Shortage (MW)	580	0	0	0	50	630
Energy Met (MU)	849	1137	792	348	40	3167
Hydro Gen (MU)	128	45	82	39	9	303
Wind Gen (MU)	12	80	52	-----	-----	144
Solar Gen (MU)*	32.21	19.6	38.77	1.89	0.04	93
Energy Shortage (MU)	10.9	0.0	0.0	0.0	0.5	11.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42947 18:17	52507 09:47	38532 18:50	18542 17:56	2497 17:38	150537 18:23

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	0.08	4.87	4.95	71.67	23.38

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	5452	0	102.1	51.5	-1.9	117	0.0
	Haryana	5950	0	115.8	98.8	0.6	142	0.0
	Rajasthan	11512	0	217.5	59.0	0.5	228	0.0
	Delhi	3490	0	62.5	51.8	-1.0	149	0.0
	UP	13489	0	239.9	97.3	-0.4	753	0.4
	Uttarakhand	1896	0	35.0	18.4	0.3	95	0.0
	HP	1595	0	28.4	21.1	-0.3	76	0.1
	J&K	2300	575	44.4	38.2	0.6	201	10.5
	Chandigarh	211	0	3.5	3.3	0.2	28	0.0
WR	Chhattisgarh	3390	0	71.9	19.4	0.0	265	0.0
	Gujarat	15438	0	331.3	86.4	0.1	733	0.0
	MP	13319	0	250.3	145.8	-4.0	419	0.0
	Maharashtra	20931	0	439.8	147.5	-4.7	327	0.0
	Goa	541	0	12.4	11.5	0.3	58	0.0
	DD	331	0	7.3	6.7	0.6	47	0.0
	DNH	797	0	18.5	18.6	-0.1	41	0.0
	Essar steel	294	0	5.6	5.3	0.3	295	0.0
	Andhra Pradesh	7289	0	152.6	75.3	-1.2	274	0.0
SR	Telangana	7592	0	156.0	74.5	0.6	605	0.0
	Karnataka	8632	0	165.0	37.8	0.2	497	0.0
	Kerala	3562	0	69.8	54.4	1.2	216	0.0
	Tamil Nadu	12296	0	242.5	146.6	-1.3	404	0.0
	Pondy	342	0	6.5	7.2	-0.7	17	0.0
	Bihar	3919	0	66.1	65.7	-0.9	430	0.0
ER	DVC	2887	0	60.0	-30.3	0.2	305	0.0
	Jharkhand	1198	0	23.6	16.6	-1.0	31	0.0
	Odisha	4411	0	86.0	19.3	1.8	510	0.0
	West Bengal	6290	0	110.9	21.0	1.7	540	0.0
	Sikkim	100	0	1.7	1.7	0.1	30	0.0
	NER	Arunachal Pradesh	119	1	2.3	2.0	0.1	31
Assam		1348	30	22.0	17.0	0.0	141	0.4
Manipur		156	1	2.3	2.8	-0.4	26	0.0
Meghalaya		340	0	6.0	2.8	0.6	24	0.0
Mizoram		102	1	1.7	1.0	0.3	28	0.0
Nagaland		121	1	2.2	2.0	-0.1	24	0.0
Tripura		235	1	3.4	1.7	-0.4	32	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.7	-4.3	-8.7
Day peak (MW)	580.6	-292.6	-556.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	189.1	-178.2	98.1	-107.4	-1.4	0.2
Actual(MU)	185.6	-189.4	105.7	-105.8	-0.8	-4.6
O/D/U/D(MU)	-3.5	-11.2	7.6	1.7	0.5	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6160	16322	7262	1740	597	32081
State Sector	13495	17408	11640	6800	11	49354
Total	19655	33730	18902	8540	608	81435

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	413	1075	381	429	12	2309
Lignite	22	16	38	0	0	76
Hydro	128	45	82	39	9	303
Nuclear	24	25	50	0	0	100
Gas, Naptha & Diesel	25	50	15	0	24	115
RES (Wind, Solar, Biomass & Others)	71	115	130	2	0	319
Total	683	1327	696	471	45	3222

Share of RES in total generation (%)	10.45	8.69	18.70	0.41	0.09	9.89
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.69	14.01	37.72	8.79	19.14	22.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.075

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 :	4-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)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	947	0.0	13.4	-13.4	
2		SASARAM-FATEHPUR	S/C	0	571	0.0	7.5	-7.5	
3		GAYA-BALIA	S/C	0	401	0.0	7.2	-7.2	
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	138	0.0	2.6	-2.6	
7		PUSAULI -ALLAHABAD	S/C	0	142	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1135	0.0	15.6	-15.6	
9		PATNA-BALIA	Q/C	0	943	0.0	16.4	-16.4	
10		BIHARSHARIFF-BALIA	D/C	0	447	0.0	7.0	-7.0	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	430	0.0	4.9	-4.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	1	73	0.0	0.9	-0.9	
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	82.2	-81.9
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1099	78	10.3	0.0	10.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	273	658	0.0	4.2	-4.2	
20		JHARSUGUDA-DURG	D/C	0	543	0.0	5.1	-5.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	623	112	3.3	0.0	3.3	
22		RANCHI-SIPAT	D/C	168	202	0.0	0.7	-0.7	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	122	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	121	11	1.4	0.0	1.4	
						ER-WR	15.0	11.7	3.2
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1802.0	0.0	35.6	-35.6	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	552.0	0.0	12.4	-12.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1982.0	0.0	34.3	-34.3	
28	400 kV	TALCHER-I/C	D/C	605.0	865.0	4.5	0.0	4.5	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	82.3	-82.3
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	331	29	5.0	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	388	12	5.6	0.0	6	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	72	22	0.9	0.0	1	
						ER-NER	11.4	0.0	11.4
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.1	0.0	11.1	
						NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	851	0.0	16.3	-16.3	
35		V'CHAL B/B	D/C	451	0	12.0	0.0	12.0	
36		APL -MHG	D/C	0	1269	0.0	26.8	-26.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2011	0.0	37.5	-37.5	
38		PHAGI-GWALIOR	D/C	0	1241	0.0	20.8	-20.8	
39		JABALPUR-ORAI	D/C	581	646	0.0	23.5	-23.5	
40		GWALIOR-ORAI	S/C	617	0	10.4	0.0	10.4	
41		SATNA-ORAI	S/C	0	1276	0.0	26.6	-26.6	
42		CHITTORGARH-BANASKANTHA	D/C	0	980	0.0	10.4	-10.4	
43		ZERDA-KANKROLI	S/C	87	113	0.0	0.4	-0.4	
44	400 kV	ZERDA -BHINMAL	S/C	56	271	0.0	2.8	-2.8	
45		V'CHAL -RIHAND	S/C	985	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	188	180	1	1	0	
47		BHANPURA-RANPUR	S/C	13	55	0.5	0.1	0.4	
48		BHANPURA-MORAK	S/C	0	132	0.0	1.6	-1.6	
49		MEHGAON-AURAIYA	S/C	102	0	1.1	0.0	1.1	
50		MALANPUR-AURAIYA	S/C	55	16	0.4	0.0	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.0	167.7	-119.7
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	809	0.0	17.0	-17.0	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	74	1874	0.0	20.9	-20.8	
55		WARDHA-NIZAMABAD	D/C	1992	2183	0.1	37.3	-37.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	632	0	10.7	0.0	10.7	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	62	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	70	1.3	0.0	1.3	
						WR-SR	12.1	76.3	-64.2
TRANSNATIONAL EXCHANGE									
60		BHUTAN						7.7	
61		NEPAL						-4.3	
62		BANGLADESH						-8.7	