



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: 02nd 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 01.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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 2-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)	38535	44946	32015	17649	2215	135360
Peak Shortage (MW)	475	0	0	0	40	515
Energy Met (MU)	794	1102	755	336	38	3025
Hydro Gen (MU)	132	42	74	34	10	291
Wind Gen (MU)	17	56	33	-----	-----	106
Solar Gen (MU)*	27.88	15.7	37.49	1.95	0.04	83
Energy Shortage (MU)	12.4	0.0	0.0	0.0	0.7	13.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	39073 09:28	50397 10:55	34786 08:17	17879 17:57	2369 17:33	139317 09:30

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	0.031	0.00	0.05	4.66	4.71	76.93	18.36

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	4712	0	92.9	45.0	-1.6	99	0.0
	Haryana	4894	0	97.7	86.9	0.1	207	0.0
	Rajasthan	11369	0	210.3	56.7	-0.5	383	0.0
	Delhi	3249	0	57.2	47.4	-1.8	91	0.0
	UP	12689	0	232.6	93.3	-0.2	700	1.1
	Uttarakhand	1727	0	30.9	19.1	0.3	198	0.0
	HP	1462	0	25.8	18.7	-0.6	108	1.0
	J&K	1979	495	43.8	36.3	0.0	201	10.3
	Chandigarh	187	0	3.1	2.9	0.3	38	0.0
WR	Chhattisgarh	3302	0	70.5	20.0	-1.4	246	0.0
	Gujarat	14829	0	318.3	75.9	0.5	564	0.0
	MP	12884	0	246.0	145.3	-3.8	419	0.0
	Maharashtra	20206	0	424.4	138.9	-3.8	401	0.0
	Goa	541	0	12.9	11.4	0.9	53	0.0
	DD	292	0	6.5	6.0	0.5	33	0.0
	DNH	748	0	17.7	17.8	-0.1	24	0.0
	Essar steel	302	0	5.3	5.3	0.0	295	0.0
	SR	Andhra Pradesh	7090	0	151.7	70.9	-0.6	531
Telangana		7549	0	159.2	68.1	0.8	544	0.0
Karnataka		8819	0	162.3	31.9	-1.0	721	0.0
Kerala		3179	0	64.2	52.7	0.8	227	0.0
Tamil Nadu		10160	0	211.8	132.1	-0.5	503	0.0
Pondy		292	0	5.8	6.4	-0.6	31	0.0
ER	Bihar	3751	0	66.8	65.6	-0.8	150	0.0
	DVC	2839	0	58.0	-26.3	0.6	300	0.0
	Jharkhand	1156	0	23.6	16.2	-0.6	31	0.0
	Odisha	4488	0	83.8	21.6	1.1	320	0.0
	West Bengal	5716	0	102.1	25.3	3.4	250	0.0
Sikkim	99	0	1.2	1.4	-0.2	15	0.0	
NER	Arunachal Pradesh	112	1	2.1	2.1	-0.1	74	0.0
	Assam	1303	21	20.4	15.7	-0.3	101	0.7
	Manipur	188	0	2.6	2.6	-0.1	38	0.0
	Meghalaya	340	0	5.9	3.0	0.3	69	0.0
	Mizoram	98	1	1.8	0.9	0.1	53	0.0
	Nagaland	126	2	2.1	2.0	-0.2	11	0.0
Tripura	218	0	3.4	1.9	-0.5	30	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	8.0	-3.7	-8.9
Day peak (MW)	567.3	-319.2	-565.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	176.9	-173.6	90.8	-90.9	-2.9	0.3
Actual(MU)	166.3	-185.1	104.9	-86.1	-2.0	-1.9
O/D/U/D(MU)	-10.6	-11.5	14.2	4.8	0.9	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6985	18742	8182	1940	584	36434
State Sector	14150	16390	10790	7370	11	48711
Total	21135	35132	18972	9310	596	85145

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	380	1074	390	396	11	2252
Lignite	22	15	23	0	0	60
Hydro	132	42	74	34	10	291
Nuclear	29	23	50	0	0	102
Gas, Naptha & Diesel	15	42	16	0	25	98
RES (Wind, Solar, Biomass & Others)	71	83	109	2	0	265
Total	650	1280	661	432	46	3068

Share of RES in total generation (%)	10.99	6.50	16.42	0.46	0.09	8.64
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	35.78	11.57	35.11	8.22	21.49	21.44

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.097

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 :	2-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	813	0.0	11.8	-11.8	
2		SASARAM-FATEHPUR	S/C	0	493	0.0	6.1	-6.1	
3		GAYA-BALIA	S/C	0	363	0.0	6.1	-6.1	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	147	0.0	2.7	-2.7	
7		PUSAULI -ALLAHABAD	S/C	0	137	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	998	0.0	13.5	-13.5	
9		PATNA-BALIA	Q/C	0	851	0.0	15.1	-15.1	
10		BIHARSHARIFF-BALIA	D/C	0	355	0.0	5.5	-5.5	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	365	0.0	3.9	-3.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	12	81	0.0	0.8	-0.8	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4	
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	0.4	72.1	-71.7
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1398	0	20.7	0.0	20.7	
19		NEW RANCHI-DHARAMJAIGARH	D/C	358	445	0.8	0.0	0.8	
20		JHARSUGUDA-DURG	D/C	76	208	0.0	1.8	-1.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	277	162	1.8	0.0	1.8	
22		RANCHI-SIPAT	D/C	170	136	0.8	0.0	0.8	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	110	0.0	1.8	-1.8	
24		BUDHIPADAR-KORBA	D/C	140	0	1.9	0.0	1.9	
						ER-WR	25.9	3.6	22.3
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1739.0	0.0	32.4	-32.4	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	550.0	0.0	12.4	-12.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1982.0	0.0	44.5	-44.5	
28	400 kV	TALCHER-I/C	D/C	234.0	981.0	0.0	7.4	-7.4	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	89.3	-89.3
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	359	65	4.7	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	396	67	5.0	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	73	29	0.8	0.0	1	
						ER-NER	10.4	0.0	10.4
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	467	0	8.9	0.0	8.9	
						NER-NR	8.9	0.0	8.9
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	473	0.0	11.2	-11.2	
35		V'CHAL B/B	D/C	247	0	6.1	0.0	6.1	
36		APL -MHG	D/C	0	1271	0.0	29.2	-29.2	
37	765 kV	GWALIOR-AGRA	D/C	0	1959	0.0	34.2	-34.2	
38		PHAGI-GWALIOR	D/C	0	1426	0.0	20.2	-20.2	
39		JABALPUR-ORAI	D/C	608	680	0.0	23.7	-23.7	
40		GWALIOR-ORAI	S/C	519	0	9.1	0.0	9.1	
41		SATNA-ORAI	S/C	0	1252	0.0	26.1	-26.1	
42		CHITTORGARH-BANASKANTHA	D/C	136	687	0.0	3.8	-3.8	
43		ZERDA-KANKROLI	S/C	85	82	0.4	0.0	0.4	
44	400 kV	ZERDA -BHINMAL	S/C	100	179	0.0	0.7	-0.7	
45		V'CHAL -RIHAND	S/C	981	0	22.6	0.0	22.6	
46		RAPP-SHUJALPUR	D/C	188	160	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	11	75	1.1	0.0	1.1	
48		BHANPURA-MORAK	S/C	11	102	0.0	1.0	-1.0	
49		MEHGAON-AURAIYA	S/C	102	0	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	61	23	0.4	0.1	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	40.8	150.1	-109.3
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	979	0.0	17.4	-17.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	162	1475	0.1	16.4	-16.3	
55		WARDHA-NIZAMABAD	D/C	0	1869	0.0	30.9	-30.9	
56	400 kV	KOLHAPUR-KUDGI	D/C	797	0	11.5	0.0	11.5	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	3	76	0.0	0.7	-0.7	
59		XELDEM-AMBEWADI	S/C	1	85	0.8	0.0	0.8	
						WR-SR	12.5	65.5	-53.0
TRANSNATIONAL EXCHANGE									
60		BHUTAN						8.0	
61		NEPAL						-3.7	
62		BANGLADESH						-8.9	