



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: 30th 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 29.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th Dec 2019, 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

30-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)	47987	46085	35824	18017	2306	150219
Peak Shortage (MW)	673	0	0	0	46	719
Energy Met (MU)	979	1090	893	344	39	3346
Hydro Gen (MU)	123	44	73	28	9	277
Wind Gen (MU)	19	68	38	-----	-----	125
Solar Gen (MU)*	25.86	20.10	76.57	1.68	0.03	124
Energy Shortage (MU)	12.7	0.0	0.0	0.0	0.7	13.4
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48922 19:12	53146 10:40	42395 08:26	18422 18:40	2357 17:44	160081 11:15

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	0.036	0.00	0.17	3.24	3.41	70.37	26.22

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	5608	0	113.8	55.8	-1.6	44	0.0
	Haryana	6201	0	124.6	78.4	0.7	250	0.0
	Rajasthan	12165	427	231.0	67.2	1.9	983	0.0
	Delhi	4691	0	78.0	66.9	0.1	280	0.0
	UP	16871	160	308.0	135.4	0.3	1040	0.0
	Uttarakhand	2087	0	39.1	25.4	0.5	118	0.2
	HP	1553	25	27.5	21.3	-0.7	171	0.0
	J&K(UT) and Ladakh(UT)	2693	673	52.7	43.1	1.0	315	12.4
	Chandigarh	256	0	4.4	4.2	0.2	33	0.0
WR	Chhattisgarh	3606	0	77.2	18.6	-0.2	251	0.0
	Gujarat	15146	0	306.7	71.5	-1.1	888	0.0
	MP	13583	0	246.9	124.2	-4.6	538	0.0
	Maharashtra	20900	0	415.3	130.5	1.0	543	0.0
	Goa	469	0	13.3	10.2	2.5	31	0.0
	DD	294	0	6.7	6.3	0.4	35	0.0
	DNH	783	0	18.4	18.4	0.0	31	0.0
	Essar steel	292	0	5.8	6.0	-0.2	214	0.0
	SR	Andhra Pradesh	8247	0	163.0	66.3	-0.1	324
Telangana		9965	0	204.8	97.3	-0.3	575	0.0
Karnataka		10380	0	193.3	42.4	-0.3	658	0.0
Kerala		3325	0	66.5	56.3	1.3	153	0.0
Tamil Nadu		12037	0	259.2	148.5	0.3	497	0.0
Pondy		308	0	6.2	6.7	-0.5	33	0.0
ER	Bihar	4729	0	80.2	77.9	1.0	430	0.0
	DVC	3141	0	64.8	-33.2	0.2	190	0.0
	Jharkhand	1322	0	25.2	16.3	-0.9	50	0.0
	Odisha	3956	0	71.6	8.2	-0.4	220	0.0
	West Bengal	5643	0	100.7	23.2	0.7	210	0.0
	Sikkim	129	0	1.9	1.6	0.3	40	0.0
NER	Arunachal Pradesh	114	2	2.1	1.9	0.1	55	0.0
	Assam	1356	32	21.4	16.6	0.2	92	0.2
	Manipur	197	4	2.4	3.1	-0.7	72	0.0
	Meghalaya	375	0	6.2	3.1	0.4	70	0.5
	Mizoram	98	2	1.7	1.2	0.1	39	0.0
	Nagaland	121	2	2.1	2.1	-0.3	20	0.0
Tripura	225	6	3.4	1.5	0.0	40	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.7	-9.2	-9.7
Day peak (MW)	322.8	-513.7	-748.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	249.9	-271.8	106.5	-82.1	-2.5	0.0
Actual(MU)	260.7	-281.5	116.3	-93.7	-0.8	1.0
O/D/U/D(MU)	10.9	-9.7	9.8	-11.7	1.7	1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4964	15093	7502	2010	597	30165
State Sector	12804	16499	8670	6200	11	44184
Total	17768	31592	16172	8210	608	74350

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	467	1171	465	430	11	2544
Lignite	19	14	49	0	0	82
Hydro	123	44	73	28	9	277
Nuclear	29	27	44	0	0	100
Gas, Naptha & Diesel	26	32	17	0	24	100
RES (Wind, Solar, Biomass & Others)	74	99	156	2	0	330
Total	738	1386	804	460	44	3433

Share of RES in total generation (%)	10.00	7.11	19.41	0.38	0.07	9.62
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.65	12.19	33.98	6.54	19.86	20.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.080

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 : 30-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)								
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	296	0.0	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	0	876	0.0	11.0	-11.0
2		SASARAM-FATEHPUR	S/C	0	406	0.0	4.8	-4.8
3		GAYA-BALIA	S/C	0	597	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	S/C	0	221	0.0	4.2	-4.2
7		PUSAULI -ALLAHABAD	S/C	0	178	0.0	3.0	-3.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	946	0.0	11.4	-11.4
9		PATNA-BALIA	Q/C	0	956	0.0	17.8	-17.8
10		BIHARSHARIFF-BALIA	D/C	0	433	0.0	6.8	-6.8
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	28	441	0.0	4.3	-4.3
13		220 kV	PUSAULI-SAHUPURI	S/C	0	120	0.0	1.8
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
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						0.6	74.5	-73.9
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5721	142	9.2	0.0	9.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	603	0	8.7	0.0	8.7
20		JHARSUGUDA-DURG	D/C	100044	173	0.0	1.0	-1.0
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	226	124	1.1	0.0	1.1
22		RANCHI-SIPAT	D/C	239	0	3.3	0.0	3.3
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	136	0.0	2.2	-2.2
24		BUDHIPADAR-KORBA	D/C	145	0	2.2	0.0	2.2
ER-WR						24.4	3.2	21.2
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	504.0	0.0	9.0	-9.0
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2487.0	0.0	46.4	-46.4
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2086.0	0.0	37.1	-37.1
28	400 kV	TALCHER-I/C	D/C	0.0	807.0	0.0	6.8	-6.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	92.5	-92.5
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	283	37	4.6	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	369	0	5.7	0.0	6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	67	14	1.0	0.0	1
ER-NER						11.3	0.0	11.3
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	493	0	11.4	0.0	11.4
NER-NR						11.4	0.0	11.4
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2453	0.0	40.7	-40.7
35		V'CHAL B/B	D/C	448	488	4.3	1.4	2.9
36	765 kV	APL -MHG	D/C	0	1927	0.0	39.9	-39.9
37		GWALIOR-AGRA	D/C	0	2819	0.0	53.4	-53.4
38		PHAGI-GWALIOR	D/C	0	1961	0.0	25.5	-25.5
39		JABALPUR-ORAI	D/C	0	1029	0.0	36.1	-36.1
40		GWALIOR-ORAI	S/C	728	0	11.5	0.0	11.5
41		SATNA-ORAI	S/C	0	1481	0.0	30.1	-30.1
42		CHITTORGARH-BANASKANTHA	D/C	303	937	0.0	3.6	-3.6
43		ZERDA-KANKROLI	S/C	170	143	0.6	0.0	0.6
44	400 kV	ZERDA -BHINMAL	S/C	154	349	0.0	1.4	-1.4
45		V'CHAL -RIHAND	S/C	975	0	21.7	0.0	21.7
46		RAPP-SHUJALPUR	D/C	86	441	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	33	73	0.2	0.4	-0.2
48		BHANPURA-MORAK	S/C	0	125	0.0	1.3	-1.3
49		MEHGAON-AURAIYA	S/C	76	0	0.9	0.0	0.9
50		MALANPUR-AURAIYA	S/C	23	32	0.0	0.2	-0.2
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						39.3	235.5	-196.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	498	0.0	11.8	-11.8
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	776	2013	1.9	24.8	-22.9
55		WARDHA-NIZAMABAD	D/C	0	2584	0.0	37.7	-37.7
56	400 kV	KOLHAPUR-KUDGI	D/C	805	0	9.7	0.0	9.7
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	81	1.5	0.0	1.5
WR-SR						13.1	74.2	-61.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						3.7
61		NEPAL						-9.2
62		BANGLADESH						-9.7