

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24th Dec 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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., डोंगतिएह, 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 23.12.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-दिसम्बर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध 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 23rd December 2018, 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 24-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43124	45544	36633	17141	2260	144702
Peak Shortage (MW)	578	0	0	0	36	614
Energy Met (MU)	918	1080	855	332	40	3225
Hydro Gen (MU)	112	23	59	25	6	226
Wind Gen (MU)	10	22	48			80
Solar Gen (MU)*	23.43	20	64.38	0.89	0.04	109
Energy Shortage (MU)	11.2	0.0	0.0	0.0	0.3	11.5
Maximum Demand Met during the day	43955	53342	40263	17320	2294	152634
(MW) & time (from NLDC SCADA)	09:14	10:52	09:08	18:11	17:22	09:14

B. Frequency Profile (%) Region All India FVI <49.7 49.7-49.8 49.8-49.9 49.9-50.05 > 50.05 0.037 0.00 0.09 6.93 17.08

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
	Punjab	5639	0	112.0	24.9	-0.7	61	0.0
	Haryana	5910	0	119.1	64.0	0.6	285	0.0
	Rajasthan	12660	0	229.1	60.6	0.6	335	0.0
	Delhi	3901	0	63.3	49.2	0.1	226	0.0
NR	UP	13541	0	280.1	106.2	0.5	265	0.0
	Uttarakhand	1927	0	35.8	23.1	-0.6	119	0.0
	HP	1511	0	27.9	21.3	0.7	166	0.0
	J&K	2312	578	47.4	43.1	-1.6	260	11.1
	Chandigarh	202	0	3.2	3.0	0.2	48	0.0
	Chhattisgarh	3368	0	72.8	20.0	0.3	233	0.0
	Gujarat	14869	0	316.0	89.4	2.5	764	0.0
	MP	13559	0	254.6	146.5	-1.3	520	0.0
14/15	Maharashtra	19600	0	390.7	108.2	0.4	456	0.0
WR	Goa	452	0	9.9	8.8	0.5	80	0.0
	DD	299	0	6.8	6.2	0.6	47	0.0
	DNH	741	0	17.4	16.6	0.8	114	0.0
	Essar steel	573	0	12.0	12.5	-0.5	256	0.0
	Andhra Pradesh	7415	0	159.3	55.1	0.4	444	0.0
	Telangana	8195	0	174.0	93.1	1.3	519	0.0
SR	Karnataka	10284	0	190.2	65.9	-0.3	512	0.0
3N	Kerala	3318	0	65.9	52.4	1.1	216	0.0
	Tamil Nadu	12334	0	259.5	133.5	-0.5	539	0.0
	Pondy	310	0	6.4	6.8	-0.4	36	0.0
	Bihar	4019	0	70.8	68.4	-2.2	460	0.0
	DVC	2920	0	63.3	-22.6	0.8	396	0.0
ER	Jharkhand	1178	0	23.6	16.5	0.4	169	0.0
EN	Odisha	3736	0	67.9	23.6	1,2	267	0.0
	West Bengal	5769	0	105.2	17.9	0.5	309	0.0
	Sikkim	87	0	1.3	1.8	-0.5	18	0.0
	Arunachal Pradesh	103	4	2.0	1.7	0.3	89	0.0
	Assam	1332	25	22.3	15.9	1.9	118	0.2
	Manipur	166	6	2.4	3.0	-0.6	7	0.0
NER	Meghalaya	309	7	6.3	5.9	-0.1	26	0.0
	Mizoram	86	5	1.5	1.0	0.2	19	0.0
	Nagaland	108	8	2.2	1.9	0.2	32	0.0
	Tripura	216	13	3,2	1.1	0.4	103	0.0

$\begin{tabular}{ll} \textbf{D. Transnational Exchanges} & \textbf{(MU) - Import(+ve)/Export(-ve)} \end{tabular}$

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.9	-6.8	-14.4
Day peak (MW)	127.3	-280.0	-822.0

 $\underline{E.\ Import/export\ By\ Regions(in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)}$

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.6	-163.1	94.0	-79.6	1.7	-1.3
Actual(MU)	149.1	-176.5	95.0	-73.1	2.9	-2.6
O/D/U/D(MU)	3.5	-13.5	1.0	6.5	1.2	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5580	17955	6582	1370	306	31793
State Sector	10025	13749	8730	6015	50	38569
Total	15605	31704	15312	7385	356	70361

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	557	1110	452	422	5	2546
Lignite	18	17	56	0	0	91
Hydro	112	23	59	25	6	226
Nuclear	25	19	36	0	0	80
Gas, Naptha & Diesel	29	42	19	0	30	119
RES (Wind, Solar, Biomass & Others)	61	44	149	1	0	255
Total	802	1255	771	448	41	3317
Share of RES in total generation (%)	7.60	3.52	19.28	0.21	0.10	7.68

Share of RES in total generation (%)	7.60	3.52	19.28	0.21	0.10	7.68
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	24.67	6.90	31.65	5.83	15.51	16.91

H. Diversity Factor
All India Demand Diversity Factor
1.030
Diversity factor = Sum of regional maximum demands / All India maximum demand

 $[\]textbf{*}\underline{\textbf{Source}}\textbf{:} \textbf{RLDCs} \ \text{for solar connected to ISTS; SLDCs} \ \text{for embedded solar.} \ Limited \ visibility \ \text{of embedded solar} \ \text{data}.$

		INTE	R-REGIO	ONAL EX	CHANGES	Date of 1	Reporting :	24-Dec-18
								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/E	export of	ER (With NR)						
1	# C 51.37	GAYA-VARANASI	D/C	0	523	0.0	7.5	-7.5
3	765kV	SASARAM-FATEHPUR	S/C S/C	30 0	256 233	0.0	3.7	-3.7 -3.9
4		GAYA-BALIA ALIPURDUAR-AGRA	- S/C	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	146	0.0	3.6	-3.6
6		PUSAULI-VARANASI	S/C	0	138	0.0	2.5	-2.5
7		PUSAULI -ALLAHABAD	S/C	0	69	0.0	0.9	-0.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	560	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	Q/C	0	842	0.0	16.2	-16.2
10		BIHARSHARIFF-BALIA	D/C	0	203	0.0	3.7	-3.7
11		MOTIHARI-GORAKHPUR	D/C	0	349	0.0	6.9	-6.9
12	220177	BIHARSHARIFF-VARANASI	D/C	91	136	0.0	1.5	-1.5
13 14	220 kV	PUSAULI-SAHUPURI	S/C	0	126	0.0	2.4	-2.4
15		SONE NAGAR-RIHAND	S/C S/C	0 25	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	S/C	0	0	0.0	0.0	0.0
17	1	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
1/	<u> </u>	III INDIANON-CHAIDAULI	5/0	U	ER-NR	0.5	60.9	-60.3
Import/E	export of	ER (With WR)					0007	00.0
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	742	111	8.2	0.0	8.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	56	321	0.0	2.8	-2.8
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	274	0	3.9	0.0	3.9
21	700 K V	RANCHI-SIPAT	D/C	76	48	0.8	0.0	0.8
22	220 kV	BUDHIPADAR-RAIGARH	S/C	7	67	0.0	0.7	-0.7
23		BUDHIPADAR-KORBA	D/C	129	0	1.5	0.0	1.5
Import/E	'vnort of	ER (With SR)			ER-WR	14.5	3.5	11.0
24		ANGUL-SRIKAKULAM	D/C	0.0	1682.0	0.0	26.4	-26.4
25		JEYPORE-GAZUWAKA B/B	D/C	0.0	685.0	0.0	16.0	-16.0
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1969.0	0.0	38.4	-38.4
27	400 kV	TALCHER-I/C	D/C	0.0	586.0	6.9	0.0	6.9
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	0.0	80.8	-80.8
Import/E	export of	ER (With NER)						
29	400 kV	BINAGURI-BONGAIGAON	D/C	200	5	3.0	0.0	3
30		ALIPURDUAR-BONGAIGAON	D/C	302	0	4.9	0.0	5
31	220 kV	ALIPURDUAR-SALAKATI	D/C	51	21 ER-NER	0.5	0.0	1
Import/E	export of	NER (With NR)			ER-NER	8.4	0.0	8.4
32		BISWANATH CHARIALI-AGRA	-	472	0	11.7	0.0	11.7
	•				NER-NR	11.7	0.0	11.7
	export of	WR (With NR)			•			1
33		CHAMPA-KURUKSHETRA	D/C	0	700	0.0	16.5	-16.5
34	HVDC	V'CHAL B/B	D/C	47	2	0.7	0.0	0.7
35	ļ	APL -MHG	D/C	0	986	0.0	24.3	-24.3
36		GWALIOR-AGRA	D/C	0	977	0.0	35.8	-35.8
37	765 1-37	PHAGI-GWALIOR	D/C	0	1201	0.0	19.3	-19.3
38 39	/05 KV	JABALPUR-ORAI GWALIOR-ORAI	D/C S/C	101 565	345 0	0.0 10.5	6.9 0.0	-6.9 10.5
40	1	SATNA-ORAI	S/C	0	1654	0.0	36.4	-36.4
41		ZERDA-KANKROLI	S/C	258	161	0.0	0.0	0.9
42	1	ZERDA-KANKKOLI ZERDA -BHINMAL	S/C	176	340	0.9	2.4	-2.4
43	400 kV	V'CHAL -RIHAND	S/C	993	0	22.3	0.0	22.3
44		RAPP-SHUJALPUR	D/C	269	20	2	0.0	2
45		BADOD-KOTA	S/C	28	37	0.6	0.1	0.5
46	220	BADOD-MORAK	S/C	15	92	0.0	0.7	-0.7
47	220 kV	MEHGAON-AURAIYA	S/C	89	0	1.4	0.0	1.4
48	<u></u>	MALANPUR-AURAIYA	S/C	46	1	0.5	0.0	0.5
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
		HID (HIM CD)			WR-NR	38.3	142.2	-103.9
Import/E 50		WR (With SR) BHADRAWATI B/B		0	995	0.0	19.9	-19.9
51		BARSUR-L.SILERU	-	0	993	0.0	0.0	0.0
52		SOLAPUR-RAICHUR	D/C	693	2032	0.0	22.1	-22.1
53	765 kV	WARDHA-NIZAMABAD	D/C	0	2077	0.0	33.0	-33.0
54	400 kV	KOLHAPUR-KUDGI	D/C	1146	0	12.8	0.0	12.8
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	64	1.1	0.0	1.1
					WR-SR	13.9	74.9	-61.0
		TRA	ANSNATI	ONAL EX	CHANGE			
58		BHUTAN				_		1.9
59 60		NEPAL	1					-6.8
	i	BANGLADESH	Ĭ.					-14.4