

**GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA**

UNSTARRED QUESTION NO:516
ANSWERED ON:04.12.2003
WIND POWER POTENTIAL SITES OF ANDHRA PRADESH
GUNIPATIRAMIAH

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

- (a) whether thirty potential sites for wind power generation have been identified in the State of Andhra Pradesh;
(b) if so, the details thereof; and
(c) the steps taken by the Union Government and State Government have taken to tap the potential of these sites in the State?

Answer

MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a)&(b): 31 sites having annual mean wind power density of more than 200 w/m² at 50 m height have been identified in the State of Andhra Pradesh. Details are given in the Annexure.

(c): Wind power capacity of 92.6 MW has been established in Andhra Pradesh so far. An additional wind power capacity of 6 MW has been installed in the State. For setting up of demonstration wind power projects, the Government provides Central Financial Assistance upto 60% of the cost of wind electric generators, including spares and erection commissioning with the ceiling of Rs.2.1 crore per MW. Fiscal and financial incentives such as accelerated depreciation, concessional duty on import of certain items, term loan from Indian Renewable Energy Development Agency (IREDA), etc. are provided by the Central Government.

The State Government provides incentives for setting up of wind power projects, such as capital subsidy to the extent of 20% of project cost subject to a ceiling of Rs.25 lakhs, allotment of land on priority basis for a maximum capacity of 20 MW wind farms, purchase of energy at Rs.2.25 per unit as on 1.4.1994 with the base year 1994-95 escalated at 5% per annum until 2004, wheeling at 2%, banking for 12 months at a fees of 2% of energy bank, creation of power evacuation facilities by collecting charges of Rs.10 lakhs per MW and technical consultancy by Non-conventional Energy Development Agency of Andhra Pradesh.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a)&(b) OF THE LOK SABHA UNSTARRED QUESTION NO.516 FOR 4.12.2003 REGARDING WIND POWER POTENTIAL SITES IN ANDHRA PRADESH

SITES HAVING ANNUAL MEAN WIND POWER DENSITY OF MORE THAN <
200 WATT PER SQUARE METRES AT 50 M HEIGHT IN ANDHRA PRADESH

Sl.No.	Station	Latitude	Longitude	Elevation	Annual Mean Wind Speed (KMPH)	Annual Mean Wind Power Density W/m ²	Annual Mean Wind Power Density W/m ² at 50m
		Deg. Min.	Deg. Min.	Measured at 20/25m	Measured at 20/25m	Extrapolated at 50m	
1	Alangarapetta+	14 48	77 47	360	20.76	244	272
2	Badhrampalli + Kottala +	14 55	77 24	440	21.30	248	277
3	Bhimunipatnam	17 54	83 27	100	19.10	195	282
4	Banderlapalli +	15 1	78 4	438	20.79	240	320
5	Borampalli +	14 30	77 9	550	19.40	163	219
6	Burugula- +	15 8	77 57	540	18.40	147	216
7	Chinnaba baiyapalli +	13 57	77 37	750	18.50	132	206
8	Jamala- madugu I +	14 49	78 23	195	17.50	161	265
9	Jamala- madugu II +	14 46	78 22	220	18.60	165	248
10	Kadavakallu +	14 48	77 56	340	22.10	303	325
11	Kakulakonda-	13 43	79 21	981	23.10	332	541
12	Kondami thipalli +	15 3	78 3	440	21.22	252	349
13	Kodumuru +	15 43	77 45	410	20.83	225	270
14	Korrakodu +	14 46	77 15	460	18.67	146	220
15	Madugupalli+	14 42	77 51	440	18.70	152	266
16	M.P.R. Dam	14 54	77 25	450	19.90	228	269
17	Mustikovala	14 15	77 32	600	20.20	201	237
18	Nallakonda +	14 7	77 34	757	22.80	276	324
19	Narasimhakonda	14 30	79 52	100	20.10	186	403

20	Nazeerabad +	17	11	77	55	664	21.00	176	232
21	Pampanoor-	14	38	77	24	490	19.60	182	232
	Thanda +								
22	Payalakuntla	14	53	79	2	340	20.10	230	257
23	Ramagiri - I	14	17	77	31	667	19.50	205	308
24	Ramagiri III	14	22	77	32	550	19.40	190	246
25	Singanamala	14	46	77	44	469	23.80	366	392
26	Tallimadugula +	14	22	77	32	540	22.20	260	288
27	Talaricheruvu +	14	57	78	3	360	18.11	144	298
28	Tirumala	13	40	79	22	880	20.40	226	374
29	Tirumalayapalli	14	54	78	11	451	19.00	154	285
30	Ulindakonda +	15	38	77	59	430	17.54	130	225
31	Vajrakarur	14	58	77	19	507	19.46	173	243