

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO-3775
TO BE ANSWERED ON-09.08.2018

DEVELOPMENT OF RENEWABLE ENERGY SECTOR

3775. SHRI G. M. SIDDESHWARA

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:-

- (a) whether the Government has taken any steps to promote the research, design and development in the renewable energy sector and if so, the details thereof;
- (b) the funds allocated and utilized for this purpose during each of the last three years, State-wise; and
- (c) whether the Government has also taken any steps to incentivize firms to come up with new technologies in the renewable energy sector and if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER (I/C)
(SHRI R.K. SINGH)

(a) The Ministry of New and Renewable Energy (MNRE) has been supporting projects for research, technology development and demonstration leading to commercialization in various R&D/academic institutions, industry, etc. in the field of solar, wind, biogas, Hydrogen, fuel cells, etc. A comprehensive policy and guidelines for research, development and demonstration (RD&D) in new and renewable energy sector is in place. It has a provision for 100% funding for projects in academic institutions, Government/non-profit research organizations and NGOs. Projects involving Industry/civil society are supported up to 50% of the project cost. In addition, MNRE has established three institutes, namely, National Institute of Solar Energy (NISE), Gurugram, Haryana; National Institute of Wind Energy (NIWE), Chennai, Tamil Nadu and National Institute of Bio Energy (NIBE), Kapurthala, Punjab for carrying out R&D, testing and evaluation in solar, wind and bioenergy respectively.

A total of 112 R&D projects in the area of solar energy, wind energy, bio-energy, small hydro, hydrogen and fuel cells were sanctioned to various R&D/academic institutions, industry, etc. with total grant of Rs.523.43 crore during the 12th Plan Period. Current focus of RD&D Programme is promoting application oriented innovation integrated with research and development for indigenous technology development for commercial applications, and testing and standardization for quality and reliability assurance in renewable energy supply.

(b) Funds allocated for RD&D are utilised on the basis of project proposals received in thrust areas from R&D/academic institutions, industry, etc. located across the country. The MNRE utilized Rs.285.35 crore for RD&D projects in solar, wind, hybrid, biogas, hydrogen, fuel cells and small hydro power implemented by various R&D/academic institutions, industry during last three years. Details of year-wise funds utilized for RD&D by various project implementing organizations located in different states in the last three years, state-wise, is given in **Annexure**.

(c) The MNRE under its RD&D Programme provides support up to 50% of the project cost to industry as grant for technology development and demonstration in the renewable energy sector.

ANNEXURE

Funds utilized for RD&D by R&D/Academic Institutions, MNRE institutions, Industries located in different states during the last three years.

Sr. No.	State	Year			Total Expenditure (In crore)
		2015-16 (In crore)	2016-17 (In crore)	2017-18 (In crore)	
1.	Andhra Pradesh	0.43	0.00	0.00	0.43
2.	Assam	0.37	0.00	0.14	0.51
3.	Chhattisgarh	0.00	0.00	0.15	0.15
3.	Delhi	2.81	4.08	9.8	16.69
4.	Goa	0.00	0.17	0.00	0.17
5.	Gujarat	15.74	4.72	2.44	22.9
6.	Haryana	17.36	14.92	34.08	66.36
7.	Jharkhand	0.00	0.16	0.00	0.16
8.	Kerala	0.25	0.07	0.00	0.32
9.	Karnataka	3.14	1.49	1.46	6.09
10.	Madhya Pradesh	1.62	1.29	0.51	3.42
11.	Maharashtra	6.11	31.74	15.38	53.23
12.	Odisha	0.43	1.08	0.66	2.17
13.	Punjab	3.49	4.81	2.14	10.44
14.	Rajasthan	0.40	0.50	0.52	1.42
15.	Tamil Nadu	20.44	31.07	38.82	90.33
16.	Telangana	0.30	0.38	0.00	0.68
17.	Uttarakhand	0.05	1.73	3.50	5.28
18.	Uttar Pradesh	0.30	0.51	0.99	1.8
19.	West Bengal	2.66	0.14	0.00	0.42
	Total	75.90	98.86	110.59	285.35