

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 2677**  
ANSWERED ON 17.03.2022

**FOREIGN COOPERATION BASED RENEWABLE ENERGY PROJECTS**

2677. SHRI ASHOK MAHADEORAO NETE

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

- (a) whether any survey/study has been conducted by the Government about various new and renewable energy projects commenced with foreign cooperation and funding during the last three years and the current year;
- (b) if so, the details thereof;
- (c) whether the Government proposes to launch state-of-the-art technology with a view to exploiting new and renewable sources of energy in the country;
- (d) if so, the details thereof including new and renewable energy projects executed during the last three years, State/UT-wise; and
- (e) the quantum of funds allocated for such projects during the said period, year and State-wise?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**

**(SHRI R.K. SINGH)**

(a)&(b): The Ministry of New and Renewable Energy has not conducted any survey/study about various new and renewable projects commenced with foreign cooperation and funding during the last three years and the current year.

However, under Technical Assistance programmes with various bilateral/ multilateral agencies, such projects are reviewed by Steering Committees/Joint Working Groups.

(c)The Ministry of New and Renewable Energy supports a scheme named “Renewable Energy Research and Technology Development Programme” through various research institutions and industry to enable indigenous technology development and manufacturing for wide spread applications of new and renewable energy, including new battery technologies, in an efficient and cost effective manner across the country.

The Ministry encourages research and technology development proposals in collaboration with the industry and provides up to 100% financial support to Government/non-profit research organizations and up to 50-70% to Industry, Start-ups, Private Institutes, Entrepreneurs and Manufacturing units for such proposals.

(d)&(e) The details of Research and Development projects executed during the last three years, State/UT-wise, along with quantum of funds sanctioned as well as released till date are attached as **Annexure I**.

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**Annexure-I****Details of R&D projects in the field of new and renewable energy sanctioned/being implemented by the Government in the country during the last three years**

<b>S.No.</b>	<b>Year</b>	<b>State</b>	<b>Title of Project</b>	<b>Name of Principle Investigator and Implementing Agency</b>	<b>Location</b>	<b>Total sanctioned Cost (Rs. In lakhs )</b>	<b>Total fund Released (Rs. In lakhs )</b>	<b>Status of project</b>
<b>1</b>	2016	Maharashtra	National Centre for Photovoltaic Research and Education (NCPRE) Phase-II	Prof. B G Fernandes and Prof C S Solanki, Indian Institute of Technology Mumbai	Mumbai	6235	5799	Ongoing
<b>2</b>	2017	Haryana	Development of high efficiency (21%/ 19%) PERC type of c-Si/mc-Si solar cells	1. Dr. B. K. Pant, BHEL-ASSCP, Gwalpahari, Gurgaon 2. Dr. A.K. Tripathi Director General, NISE, Gwalpahari Gurgaon	Gurgaon	2628	2440	Ongoing
<b>3</b>	2017	New Delhi	National Primary Standard Facility for Solar Cell Calibration	Dr. Vandana, CSIR-NPL Co-Principle Investigator: 1. Dr. Prathap Pathi, CSIR-NPL, 2. Mr. CMS Rauthan, CSIR-NPL 3. Dr S. K. Srivastava, CSIR-NPL, 4. Dr. A. Tripathi, NISE	New Delhi	1788.5	1429	Ongoing
<b>4</b>	2017	New Delhi	Development of suitable pre-treatment system for paddy straw disintegration for biogas generation leading towards commercialization technology	Prof. (Dr.) Virendra Kumar Vijay, CRDT, IIT Delhi	New Delhi	49.77	37.00	Ongoing

5	2018	Madhya Pradesh	System Design, Erection, Testing & Commissioning of 40 kWth and 10 kWe pilot plant aiming at the Feasibility Study of MWe Scale Concentrated Solar Thermal Plant integrated with 24 x 7 Thermal Energy Storage	Dr. Vinod Krishna Sethi, RKDF University	Bhopal	81.50	35.00	Completed
6	2018	Tamil Nadu	Met-Ocean Measurements (Wind, Wave, Tide, Current, Water Level, etc.) at Gulf of Khambhat and Gulf of Mannar for fostering the growth of offshore wind in the country	Rajesh Katyal, National Institute of Wind Energy, Chennai	Chennai	4464	2000	Ongoing
7	2018	Tamil Nadu	Integrated Wind and Solar Resource Assessment through Mapping and Measurements	Rajesh Katyal, National Institute of Wind Energy, Chennai	Chennai	1799	1302	Ongoing
8	2018	Uttar Pradesh	Studies on novel semiconductor towards increasing the efficiency of PEC water splitting for hydrogen generation	Prof. Sahab Das, Dayalbagh Educational Institute, Dayalbagh	Agra	349.82	289	Ongoing
9	2019	Maharashtra	Flexible Perovskite Solar Cells and Intermediate Module	Prof. Shaibal K Sarkar, IIT Bombay	Mumbai	830	668	Ongoing
10	2019	Haryana	Design and Development of 'High Efficiency Solar Water Pumping Systems'	Director General, NISE Dr. Chandan Banerjee, Deputy Director General, NISE	Gurgaon	485	231	Ongoing
11	2019	Telangana	Design and development of 20kW Low Temperature Polymer Electrolyte Membrane (LT-PEM) fuel cell with high indigenous content	Dr. N. Rajalakshmi, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)	Balapur	1774	11.22	Ongoing
12	2020	Uttarakhand	Design and Development of high performance supercapatteries for solar applications (Solar Lantern, Solar Home Light)	Dr. S. P. Gairola, Professor & Head Research & Development Cell, Uttaranchal University	Dehradun	66	40	Ongoing