

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:3090  
ANSWERED ON:19.08.2011  
AKSHAY URJA  
Gawali Patil Smt. Bhavana Pundlikrao

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

- (a) the details of ongoing schemes along with target set and achievements made so far under 'Akshay Urja' scheme in the country, State/UT-wise;
- (b) whether the Government proposes to develop and install telecommunication towers based on Akshay Urja in rural areas of the country including Maharashtra and Uttarakhand;
- (c) if so, the details thereof; and
- (d) the action plan formulated by the Government to promote such projects in remote and rural areas?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

- (a): The Ministry has several ongoing renewable energy schemes / programmes in the country. Details thereof are given in Annexure-I and State/UT-wise cumulative achievements under the major schemes/ programmes as on 30.06.2011 are given in Annexure-II. State/UT-wise targets are not set under these schemes/programmes.
- (b) & (c): No, Madam. However, during FY 2010-11, the Ministry has supported pilot projects for use of Solar Photovoltaic power systems in 400 nos. Telecom towers of different operators in different States, including 25 nos. in Uttarakhand, primarily with a view to demonstrate the efficacy of such systems in substitution/ abatement of diesel based power generation in case of towers located in off-grid/ power deficit areas. Details thereof are given in Annexure-III.
- (d): Pending satisfactory completion of the pilot projects mentioned above and receipt of feedback from the same, no further action plan has presently been formulated to promote more of such projects in telecom towers in remote and rural areas.

Annexure-I

Annexure-I referred to in reply to part (a) of the Lok Sabha Unstarred Question No.3090 for 19.08.2011 regarding 'AKSHAY URJA'

Details of the ongoing renewable energy schemes / programmes in the Country

1. GRID-INTERACTIVE/ OFF-GRID RENEWABLE POWER:

- Wind Power : MW-scale Wind Farms/Aero generators/ Hybrid systems
- Bio-power: Biomass power/ Cogeneration
- Small Hydro Power : Small hydro power plants upto 25 MW capacity; Watermills/Micro hydel plants
- Solar Power: Grid-interactive -Solar Thermal and SPV power generation plants, and off-grid/ decentralized systems for various applications under National Solar Mission.

2. RENEWABLE ENERGY FOR RURAL APPLICATIONS:

- Remote Village Electrification Programme : provision of lighting/ electricity in the unelectrified remote villages/hamlets
- Biomass Gasifier for Rural Energy / Industrial Energy.
- Biogas Programme: setting up of Family Type biogas plants for cooking/ lighting/ manure/ small scale power generation
- Solar Thermal Systems: deployment of decentralized solar thermal systems/ devices (mainly solar cookers / driers for cooking, drying farm produce) under National Solar Mission.

### 3. RENEWABLE ENERGY FOR URBAN, INDUSTRIAL & COMMERCIAL APPLICATIONS:

- Biomass(non-bagasse) cogeneration/ U&I Waste to Energy
- Solar water heating systems - for domestic, institutional, commercial/ industrial applications under National Solar Mission.
- Solar air heating/ steam generation systems - for community cooking/other applications in institutions and industry under National Solar Mission.
- Green Buildings - incorporating active renewable energy systems and passive designs
- Solar Cities – Planning for reducing their conventional energy consumption through energy conservation and use of renewable energy devices/ systems

### 4. RESEARCH, DESIGN & DEVELOPMENT:

- Supporting research and development projects at premier institutions and industries on different aspects of new and renewable energy technologies.

#### Annexure-III

Annexure-III referred to in reply to parts (c) & (d) of Lok Sabha Unstarred Question No.3090 for 19.08.2011 regarding Akshay Urja.

#### Details of Pilot Projects supported for use of Solar Photovoltaic systems in Telecom Towers in different States

Name of Telecom Operator Name of State Number of Telecom Towers supported for use of SPV systems

Name of Telecom Operator	Name of State	Number of Telecom Towers supported for use of SPV systems
I. BSNL	Arunachal Pradesh	15
	Haryana	3
	Himachal Pradesh	18
	Jammu & Kashmir	15
	Karnataka	3
	Kerala	3
	Punjab	4
	Rajasthan	4
	Sikkim	2
	Tamil Nadu	3
Uttar Pradesh (W)	6	
Uttarakhand	25	

Sub Total 100

II. AIRTEL Bihar 100

III. INDUS Andhra Pradesh 100

IV. GTL Uttar Pradesh 100

Total 400