



# Energy Education Initiatives in U.S.A and India

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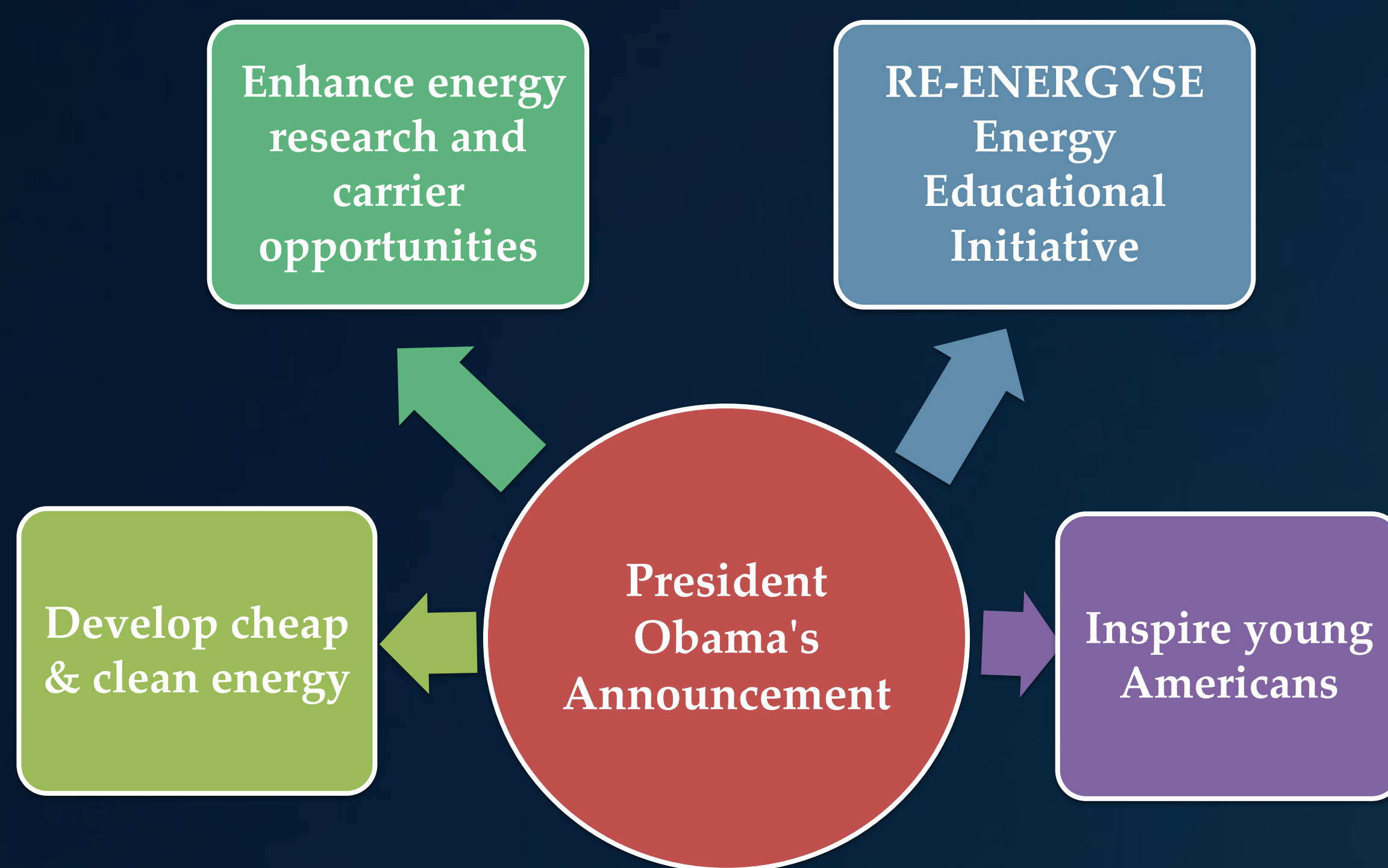
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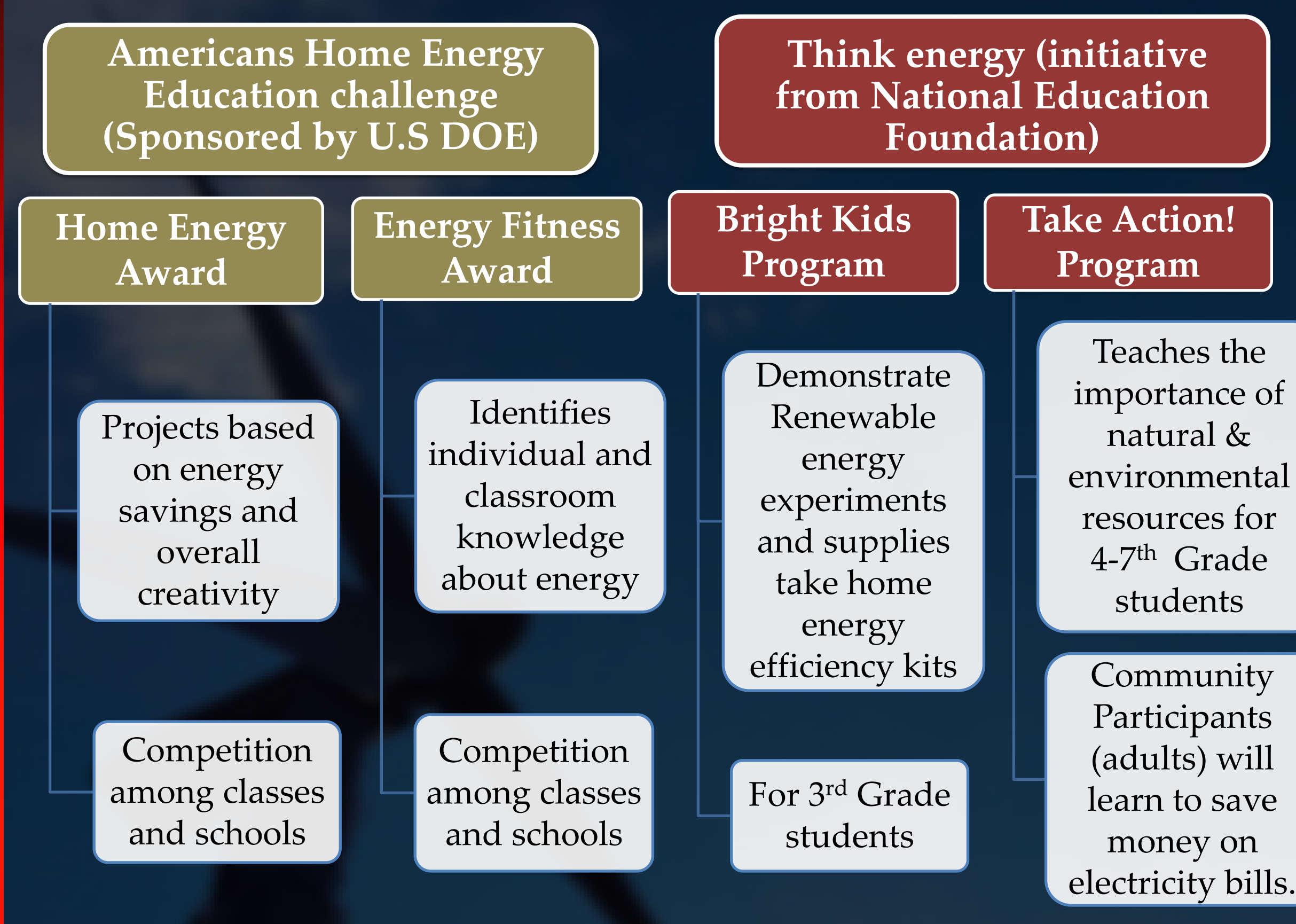
## Introduction

Lack of awareness about the efficient utilization of energy may eventually lead us toward energy crises in future. To educate people about the advantages of efficient energy utilization and adoption of cleaner energy technologies, most of the nations have planned several initiatives including public awareness programs, introduction of energy education in curriculum at school-level, and engaging students and their families in challenges that conserve energy. This poster demonstrates energy education initiatives in the U.S.A and India.

## Energy Education Initiatives in U.S.A



Organization	Program Title	Outcomes
U.S Department of Energy (DOE)	"Energy Literacy Initiative (ELI)"	Helps people to understand the basic concepts of energy, resources, generation and efficiency.
American Electric Power Support (AEP)	"Learning from Light and Wind"	Helps students and communities installing photovoltaic panels . Make them understand the wind technology and generation.
National energy Education Development project (NEED)	"NEED project"	Promotes energy conscious and educated society by effective network of students, educators, business, government and other organizations to design energy education programs.



## Non-Governmental initiatives

- (I) Energy Optimizers (LLC, U.S.A)**  
The Green team approach collects data then exchanges with other partner schools and to make students, teachers and other members of the school aware of the importance of energy and organize discussions on Renewable energy.
- (II) Student's and Universities' Involvement**  
A group of more than 100 university and college student government presidents submitted a letter urging Congress to launch a national program for clean energy science and engineering education.

## Case studies in U.S.A

Martin Luther King Jr. educational campus in Manhattan, U.S.A had won the top honor for voluntarily decreasing their energy use by 35%	Stafford, U.S.A installed solar panels in three of their schools. The district has saved \$103,940 in energy produced and with energy conservation they saved about \$1.2M between 2008 and 2011.
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## India-US (Joint Clean Energy R & D)

The Joint Clean Energy Research and Development Center will mobilize \$100 million in public and private funding; the Center will focus on solar energy, advanced second generation bio fuels, and energy efficiency in buildings in the initial stages. Grants will be awarded to a joint U.S.-India consortium of partners such as government laboratories, universities, corporations and non-governmental organizations.

## Energy Education Initiatives in India

By 2020, India is expected to generate 22,000 MW of solar power. Which needs 22 skilled persons/MW.  
– Dr. Manmohan Singh.

India joined Electric Vehicles Initiative (EVL) at Clean Energy Ministerial – an initiative towards manufacturing electric vehicles.

Energy efficient buildings and appliances still remain India's priority in transition towards a cleaner, efficient and Smart Grid.

- "Teach A 1000 Teachers"**
  - Launched by Ministry of New and Renewable energy, operates in 35 remote centers across the country.
  - To educate & train, research and testing protocols for PV cells.
- Information & Public Awareness Programs**
  - To generate mass awareness of the non-conventional energy products and devices in term multiple benefits.
  - Activates through Electronic, print, Postal, Exhibitions & Outdoor Media and Broadcasting, Thematic advertisements, hoardings, trade-fairs events
- Energy education park, Kolkata, India**
  - Educate the advantages of non-conventional resources and renewable energy technology among students and general public.
- Solar Energy course Initiative**
  - Indira Gandhi National open university in collaboration with Queensland Government started a certified course on solar energy in Jan. 2012 to train and enhance the skilled work force.

## Non-Governmental initiatives

- EIA Crop Learn Tech**
  - (i) A two day technical program, which provides basics of renewable energy.
  - (ii) Educating employees about efficient utilization of energy.
- Laya Organization**
  - (i) Laya promotes energy education in poor and remote avenues of India.
  - (ii) Focuses on tribal houses, educating the usage of micro-turbines and solar energy.