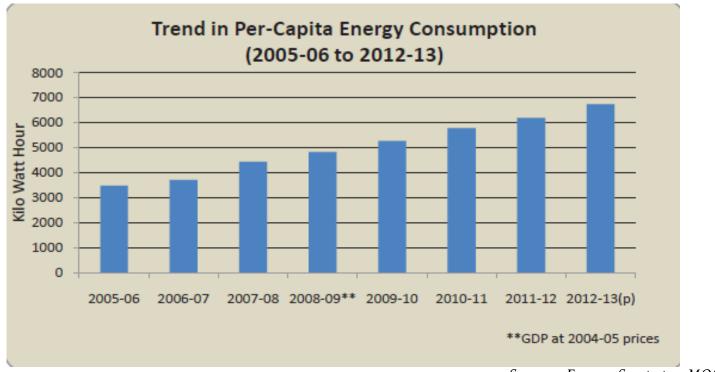
Renewable Energy Financing in India

Key initiatives by Climate Parliament

India – Renewable Energy Landscape

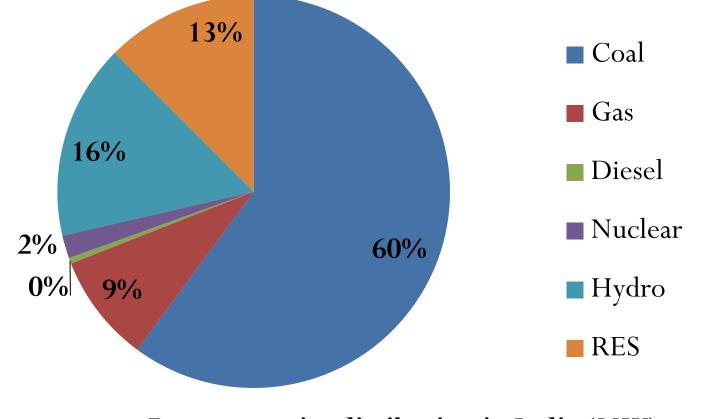
Growing energy demand in India

- Per-capita Energy Consumption (PEC) increased from 3,497.59 KWh in 2005-06 to 6748.61 KWh in 2012-13, a CAGR of 8.56%.
- The annual average growth rate of the total energy requirement is expected to be 5.7 per cent per year in the Twelfth Plan.



Power Sector in India

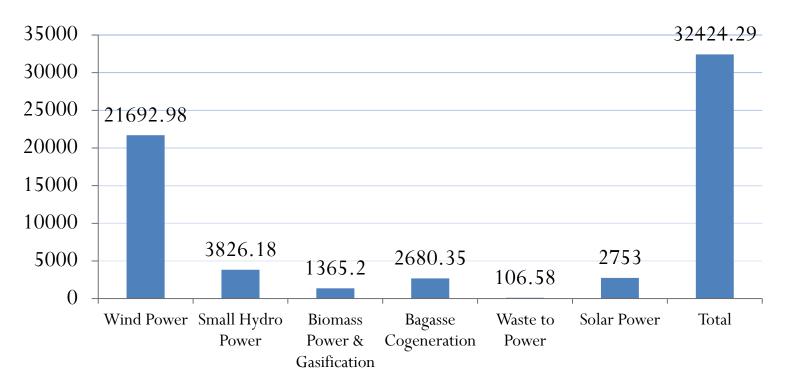
• Total installed power capacity in India is 253389.48 MW (August 2014)



Power capcaity ditribution in India (MW)

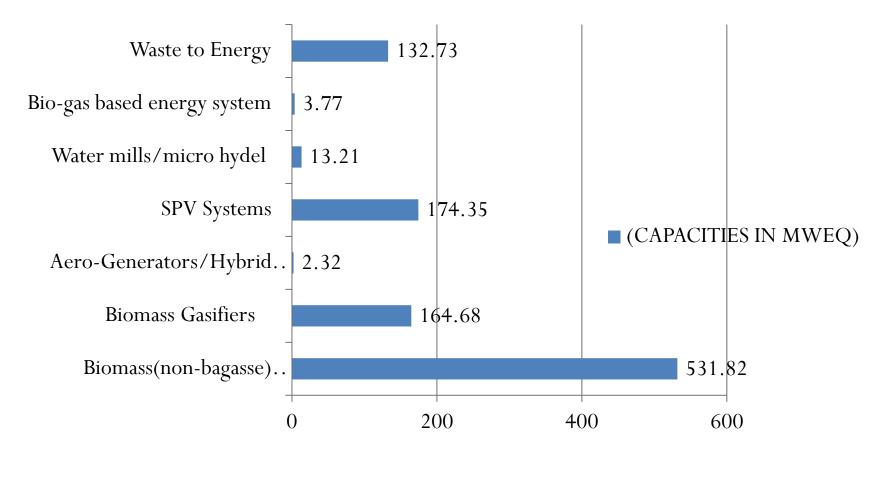
RE installed capacity in India

Grid Interactive renewable energy capacity* (MW)

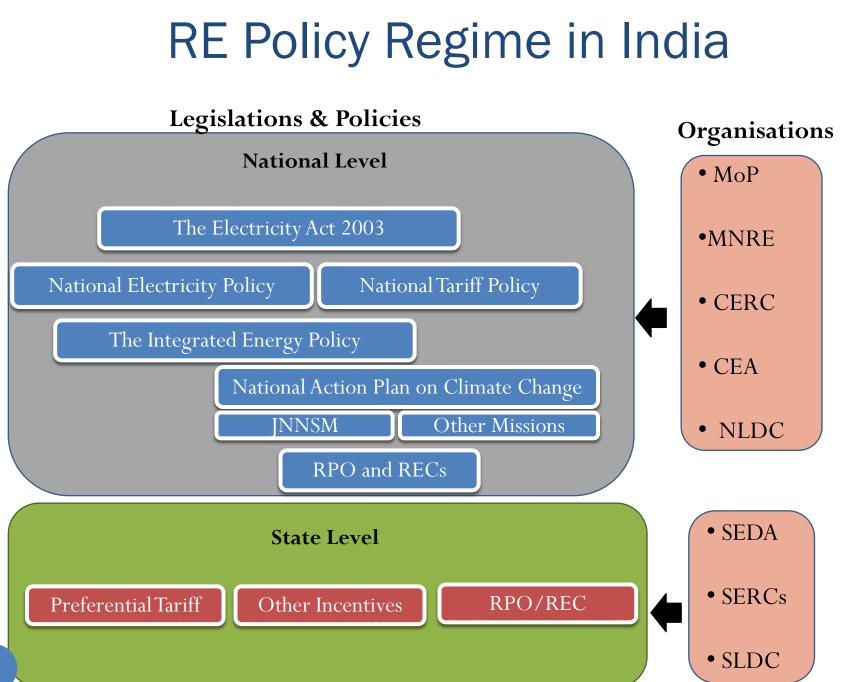


* Large hydro not included

OFF-GRID/ CAPTIVE POWER



Total installed capacity: 1022.88 MW



Initiatives by the Government

Solar energy:

- National Solar Mission targets increased 5 times to 100,000 MW-
- Government of India has plans to develop ultra mega solar power plants in the country. Costs of the first one will come down to Rs. 5.40
- MNRE plans setting up 25 solar parks, each with a capacity of 500 to 1000 MW.
- Ministry of Railways and Defence is promoting installation of solar
 projects out of their own budgets.



Charanka Solar Park, Gujarat

Source: http://urvishdave.wordpress.com

Initiatives by the Government

• Wind energy :

- Fifth largest wind power installed capacity in the world.
- Recently reintroduced
- National Wind Energy Mission to be launched soon.
- First Ever Offshore Wind Power Project in India-100 MW Project to come up in Gujarat Coast.



Wind turbines in agricultural fields of India

Source:http://en.wikipedia.org/wiki/Electricity_sector_in_Indi a#mediaviewer/File:India_fields_and_wind_turbines.jpg

Policy Initiatives by the Government

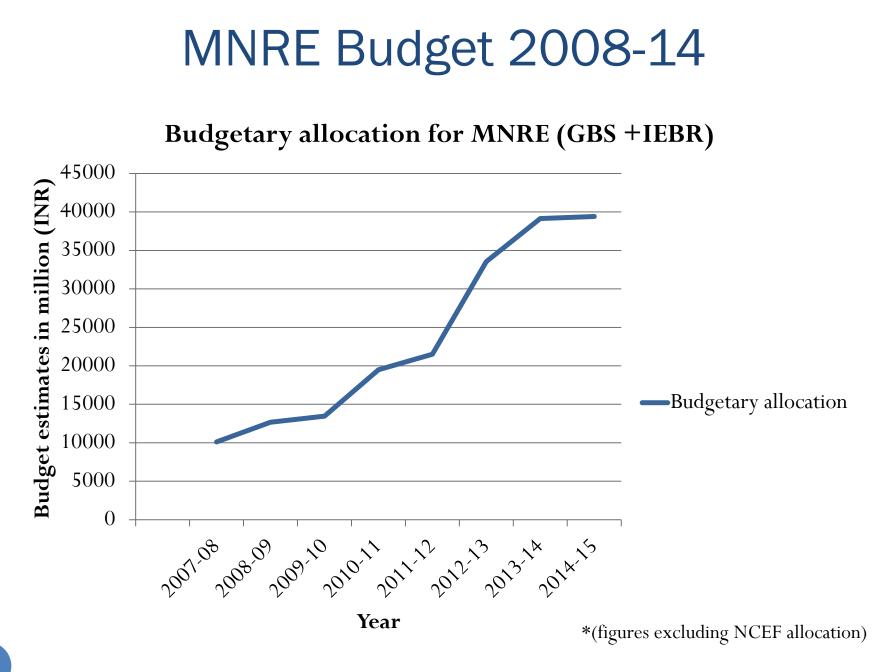
- The Government is planning to introduce a National Energy Policy which would provide balanced emphasis on conventional and non conventional resources.
- Clean Energy Cess National clean Energy Fund (NCEF) increased from Rs.
 50 per tonne to Rs. 100 per tonne. Project scope increased to environmental projects.
- Bundling of conventional and solar energy: A nodal agency(NVVN) in India purchases power from solar as well as coal power producers and supplies bundled power to the distribution utilities. This brings down the costs of electricity significantly.

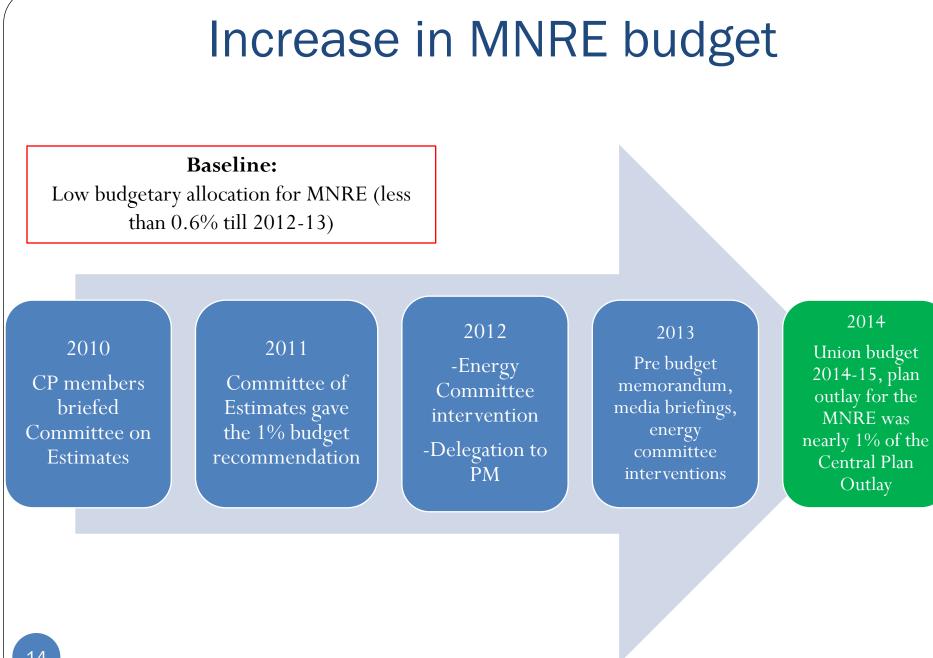
Initiatives and achievements of Climate Parliament India for RE financing

Financing will be a major factor determining the implementation of initiatives and targets planned by the Government. Thus CP in India has focused several activities on this issue.

Renewable Energy Financing

- Climate Parliament has been actively pursuing the Government on the following issues related to RE financing:
 - Increase in budgetary allocation for MNRE
 - Effective utilization of National Clean Energy Fund
 - Re-introduction of Accelerated Depreciation(AD) and Generation Based Incentive(GBI) for wind energy
 - Priority sector lending for renewable energy
 - Investment by PSUs and major companies(through CSR) in renewable energy
 - Tax free bonds for renewable energy





Delegation to the Ex-Prime Minister



Climate Parliament members meeting the PM, December, 2012 (Delegation to the Prime Minister focussed on budget allocation for MNRE and other renewable energy issues)

Climate Parliament MPs interaction with media on renewable energy in Union Budget 2013-14



Dr. Sanjay Jaiswal and Mr. Jayant Chaudhary meeting members from the media, Feb, 2013

Allocation of funds from National Clean Energy Fund (NCEF) to MNRE

Baseline:

Large portion of NCEF remained unutilized till the year 2012

2012

Climate Parliament MPs write to Finance Minister on NCEF Utilization

Mr. K.N Singh Deo raises the issue of NCEF utilization under Rule 377 in Lok Sabha

17

2013

CP members write to Finance Minister for allocating NCEF funds for RE

> Parliamentary questions, VIP mentions, etc.

2013

NCEF allocation for RE projects increased

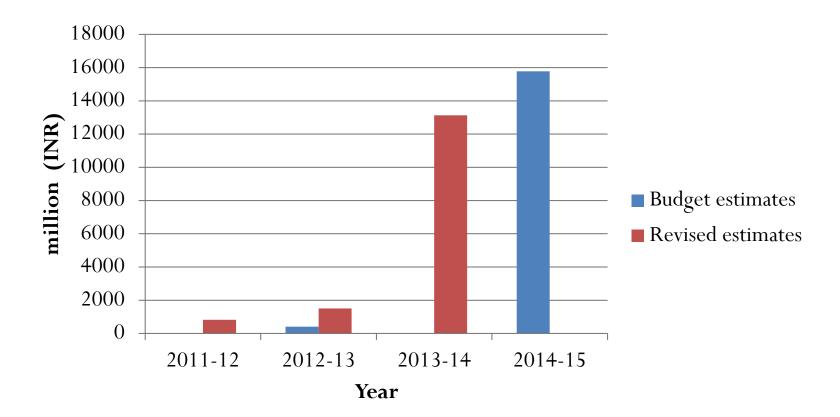
Allocation of NCEF fund to IREDA in budget 2013-14

2014

Government amended the NCEF guidelines for providing resources to implement regular MNRE programs

National Clean Energy Fund (NCEF) – Cess on production and utilisation of coal

Allocation of funds from National Clean Energy Fund (NCEF) to MNRE



NCEF utilisation patterns by MNRE from 2011-12 to 2014-15 RE for 2014-15 is not available



Re-introduction of incentives for Wind Energy

Baseline:

In April 2012, both GBI and AD benefit were removed which led to a major fall in wind installations from 2012 onwards

2012

Questions raised in Parliament on removal of AD and GBI

20

2013

- Dr. Jhanshi Lakshmi Botcha wrote to the MNRE minister

 Wind energy meet for experts and MPs in July
 Recommendations for the wind energy sector submitted to the Government

2013

GBI was reintroduced in the union budget 2013-14

2014

AD was reintroduced in union budget 2014-15

AD – Accelerated Depreciation

GBI – Generation Based incentives

Parliamentarians Meet on "Wind Power Sector in India: Enabling Future Growth", July 2013.



Climate Parliament MPs attending the meet on Wind Power in Bengaluru, July 2013

Priority sector lending

- **Baseline:** Renewable energy was not included in priority sector lending category of RBI.
- Initiatives:
- Climate Parliament in India had suggested priority sector lending for renewables in the following:
 - 'Key Issues for Promotion of Renewable Energy in India' (January 2011)
 - 'Key Suggestions to Achieve the Targets of Renewables, under the National Action Plan on Climate Change and the Draft Approach to the Twelfth Five Year Plan' (December 2011).
- During the budget session of the Indian Parliament in March 2012, Climate Parliament Group of Indian MPs submitted detailed letters, demanding the recognition of priority sector lending for renewables to:

- Mr. Farooq Abdullah, then Minister for New and Renewable Energy
- Mr. Montek Singh Ahluwalia, then Deputy Chairman, Planning Commission

• Results:

 In July 2012, Reserve Bank of India (RBI) released revised guidelines through which off-grid solar and other off-grid renewable energy solutions for households were included in the category of priority sector lending.

Renewable energy in PSEs and CSR

• **Baseline:** In August 2013 the new Companies Act was launched along with CSR rules. There was no specific mention of renewable energy in Schedule VII.

• Initiatives:

- Mr K.P Ramalingam submitted a letter on promoting clean energy sources under Corporate Social Responsibility (CSR) to Shri Sachin Pilot, then Minister of State for Corporate Affairs, during January 2014.
- Mr Mansukh Mandaviya submitted a lette to Mr Praful Patel, then Minister Heavy Industry and Public Enterprises, regarding promotion of clean energy through Central Public Sector Enterprises' in general and particularly though their Corporate Social Responsibility obligations .
- Several questions have been raised on this issue in the Indian Parliament,
 by the members of the network.

• Results:

- In June 2014, the Ministry of Corporate affairs released a statement in public that renewable energy projects will also be considered as CSR initiatives under the broad category of 'Environmental sustainability, ecological balance and conservation of natural resources'.
- This is a significant development as it can generate 15 20000 Crore INR (3 billion USD) per year and a portion of this now can be routed to the renewable energy projects in India.
- Central public sector undertakings (CPSUs) have started working on setting up ultra mega solar power plants in India.
- In August 2014, MNRE secretary through a letter asked all the union ministries and public sector units to adopt solar energy and install rooftop solar units.

Tax free bonds for renewable energy

- **Baseline:** Limited resources were raised by IREDA through tax free bonds prior to 2012-13.
- Initiatives:
- Members of the network have actively raised questions on the functioning of IREDA and issuance of tax free bonds in the country since 2010.
- In a memorandum submitted to P. Chidambaram (then Finance Minister of India) in January 2013, the members stressed on use of tax free bonds to raise low cost financing for renewable energy projects.
- Expert report commissioned by Climate Parliament India also provided suggestions on this issue.
- Results:
- IREDA has started issuing tax free bonds in last few years.
- In the year 2013-14 Government of India permitted IREDA to raise INR 1000 crore (USD 162.39 million) through tax free bonds. There was a timely release of these bonds as compared to previous years.

