



## TERI and GGGI release reports on climate resilient inclusive green growth and sustainable development

*National and state level assessments provide incisive understanding of climate resilient interventions required for inclusive green growth.*

**New Delhi, 3 February, 2016:** The Energy and Resources Institute (TERI), in collaboration with the Global Green Growth Institute (GGGI) has completed a study on green growth development that provides insights and recommendations at the national level and particularly, in the states of Punjab and Himachal Pradesh with the aim of propelling them towards green growth and sustainable development.

In an [interaction with a TERI researcher, Shri Prakash Javadekar \(click here to view in full\)](#), Hon'ble Minister of Environment, Forest and Climate Change reaffirmed that the objective of poverty eradication can only be addressed through climate resilient green growth and sustainable development.

As India steps up action following the Paris Climate Agreement, the project hopes to provide national and state level policy makers with new analysis, information and recommendations to design and implement policies and programmes, including the Intended Nationally Determined Contribution (INDCs) to meet Sustainable Development Goals. The multifarious challenges that the world faces today demand knowledge of climate and development impacts to enable current and new generations of decision-makers to engage and comprehend the complex interactions involving climate change and sustainable development. This project bears specific relevance towards the *Mission on Strategic Knowledge for Climate Change*, one of the eight missions under the *National Action Plan on Climate Change*.

The project, 'Initiative on Green Growth and Development in India', aims at building evidence through rigorous analysis to help formulate policy choices and green growth opportunities at national and sub-national levels. The two-year long project helps to understand required climate resilient green growth interventions on climate change, natural resource management, sustainable energy and inclusive development. Additionally, policy backgrounders on specific sectors such as industry, air pollution, agriculture, waste management, transport, buildings, and climate change provide a review of long-term sustainability challenges in India and suggest policy action and interventions to tackle these. **These can be viewed at the weblink: [www.teriin.org/projects/green](http://www.teriin.org/projects/green)**

The study looks at specific challenges faced by the state governments of Punjab and HP, where developmental activities are heavily dependent on the state's natural resources. In order to understand linkages between development outcomes and green interventions in Himachal Pradesh, the project utilizes three models (climate, soil and water assessment, and energy analysis).

### Key project highlights

- At a national level, green growth interventions in energy sector can create employment for 117 lakhs by 2031.
- For Punjab's agriculture, as a result of projected increase in temperature, an increase of 6-8% in evapotranspiration from crops is expected thereby increasing the irrigation requirement. In irrigation, there would be a deficit of 14.4 billion cubic metres (BCM) in 2030s unless crop diversification takes place. For Punjab, annual mean temperature is projected to increase by 1.2-1.4°C for 2021-2050 period relative to 1971-2000.
- As a result of climate change, apple production in Himachal Pradesh could decrease by 4% by 2030. In addition, 11.61% of State will have catastrophic soil erosion in the 2030s. Overall warming in Himachal Pradesh to increase, with Mean Annual Maximum temperature projected to rise by 1.1-1.9°C for 2021-2050 period relative to 1971-2000.
- The study is the first comprehensive integrated analysis involving climate modelling, soil and water assessment, energy modelling as well as field case studies. Climate data at 25 X 25 km resolution was generated for the first time for these two states.

## **ABOUT TERI**

The Energy and Resources Institute is an independent, not-for-profit research institute focused on energy, environment, and sustainable development and devoted to efficient and sustainable use of natural resources. Since its inception in 1974, TERI has emerged as an institution of excellence for its path-breaking research, and is a global brand widely respected by political leaders, policy makers, corporate entities as well as the civil society at large.

## **ABOUT GGGI**

The Global Green Growth Institute (GGGI) is an international organization dedicated to supporting and promoting strong, inclusive and sustainable economic growth in developing countries and emerging economies. Established in 2012, at the Rio+20 United Nations Conference on Sustainable Development, GGGI now has 25 member countries with Prof. Dr. Susilo Bambang Yudhoyono – the sixth President of the Republic of Indonesia (2004-2014) as President of GGGI's General Assembly. Mr. Yvo De Boer, former Secretary General to UN Framework Convention on Climate Change (UNFCCC), is the Director-General of GGGI. Headquartered in Seoul, Republic of Korea, GGGI supports stakeholders through two complementary and integrated work streams – Green Growth Planning & Implementation and Knowledge Solutions – that deliver comprehensive products and services designed to assist in developing, financing and mainstreaming green growth in national economic development plans.

GGGI in India: GGGI has been working in India since 2013, primary at the sub-national level, to promote green growth and sustainable development. Working in close partnership with state governments, agencies, institutions and regional organizations, GGGI has developed three state level green growth strategies, identified and prioritized integrated solutions that yield multiple development benefits and provided implementation support. Starting 2016, the focus of the GGGI India program would shift considerably to the national level and in particular to support implementing India's INDCs.

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