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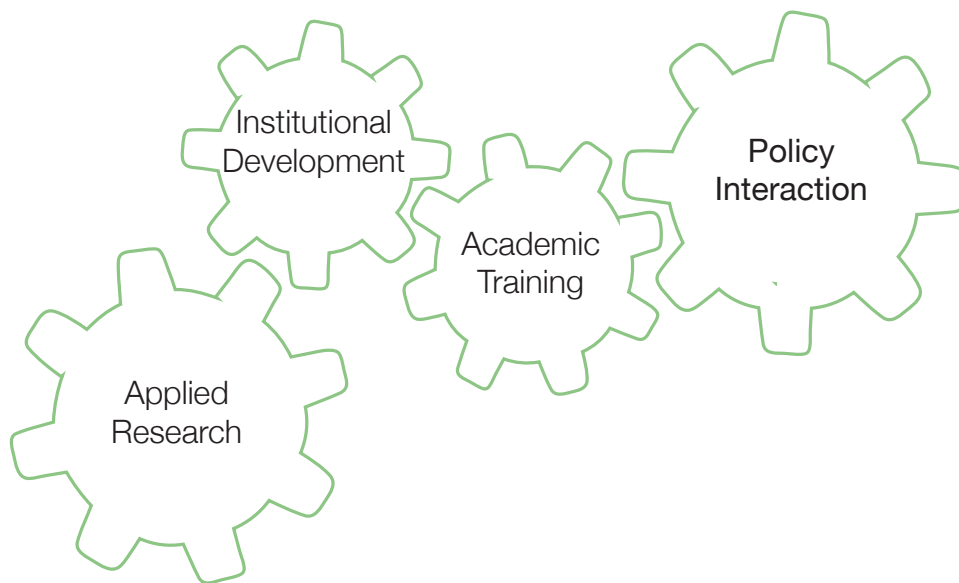
ANNUAL
REPORT

India
2017

Environment for Development

The EfD Initiative is a global network of environmental economics' research centers.

We contribute to effective management of the environment in the global south through:



CONTENTS

P3. Director message

P4. Research

P5. Collaborative Research Programs

P6. Policy Interaction and Communication

P7. Academic Capacity Building

Director message

The Centre for Research on the Economics of Climate, Food, Energy and Environment (CECFEE), the EfD centre in India (EfD-I), have consolidated into a well-organized research and policy unit. We have streamlined the center's administration and formalized the financial processes. We have two visiting assistant professors at the Indian Statistical Institute (ISI), who work on topics directly related to EfD's agenda.

In the past year, extensive progress has been made on the two EfD-funded projects and the field work is underway. We have also submitted progress reports for these two projects.

Among the many research and policy areas relating to environmental issues in India, CECFEE has prioritized a few important ones: crop burning, vehicle air pollution, renewable energy, and clean cooking technologies, among others. This research has been presented at various academic conferences across many countries including at CECFEE's own workshop in Udaipur, Rajasthan, in November 2017, which was attended by a rich mix of people from academia, non-governmental organizations, and government. Following this, major

in-roads have been made in Indian's transport sector, through joint discussions with the World Resources Institute (WRI) and the Centre for Science and Environment (CSE). The intention is to create a policy-oriented audience for CECFEE's upcoming environmental policy research conference.

Other CECFEE researchers are collaborating with organizations like the Bill & Melinda Gates Foundation, Monash University (Australia), NITI Aayog, and The Nature Conservancy (TNC). These projects are being funded by the collaborating organizations.

Last year CECFEE promoted EfD's agenda in the annual Indian Statistical Institute (ISI) conference on economic growth and development, where Prof Thomas Sterner from the Department of Economics at the University of Gothenburg, Sweden, gave a keynote address on climate economics, and discussed his research and ideas on environment as well economics teaching.

Other initiatives involve a new webpage and outreach through social networking, including on the center's Twitter platform.



CECFEE network at the annual workshop at Udaipur, Rajasthan

Research

CECFEE research has focused on air pollution exposure in various contexts. Given the well-known health effects of air pollution, as well as the scale of exposure in India, this research is important. Most often, the poorer people in the population are more susceptible to these health impacts. This research will thus address ways to improve health, work capacity, and ameliorate inequality in income and opportunity.

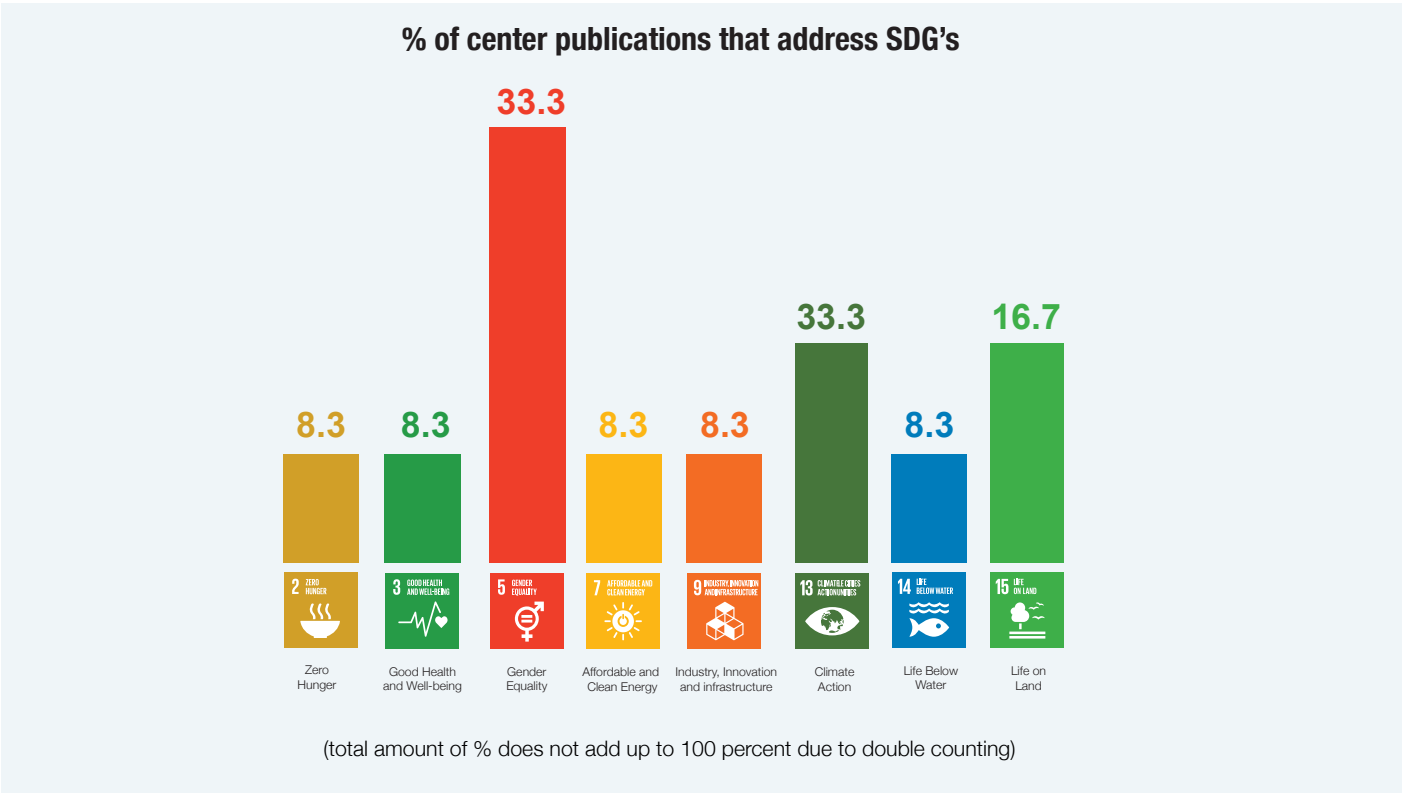
Two ongoing projects look into electric cooking technologies and clean LPG cooking, including their viability, benefits, and adoption. Another initiative addresses the annual episode of extreme pollution levels in north India through policies addressing crop burning in Punjab and Haryana, two major agricultural states in India.



Researchers conducting a survey of farmer's behavior and views on crop residue burning at a village in Ludhiana, Punjab



14 publications in 2017
8 Peer reviewed publications



Collaborative Research Programs



Ecosystem Services Accounting for Development researchers at the 2017 workshop in Addis Ababa, Ethiopia

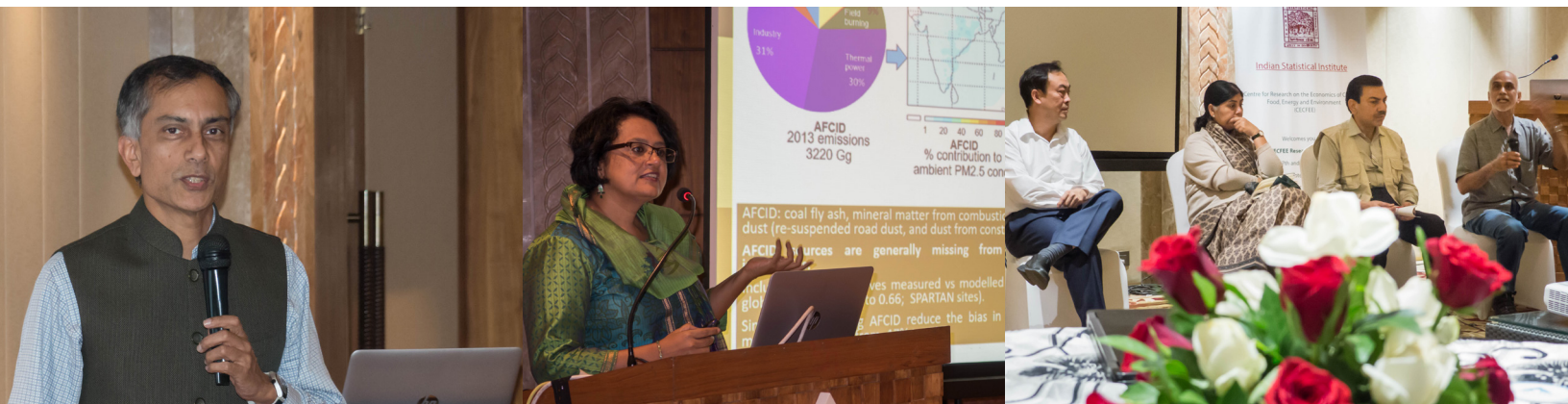
EfD has institutionalized south-south-north experience sharing through the research collaborations. The Sustainable Energy Transition Initiative (SETI) network, the Forestry Collaborative, and the Ecosystem Services Accounting for Development (ESAforD) that apply the “Community of Practice” approach have been very active during 2017. SETI organized a big workshop at Duke in May 2017 with more than 70 practitioners. Similarly, the forestry collaborative organized a meeting back-to-back with the EAERE annual conference in Athens in June 2017.

All collaboratives had meetings during the EfD annual meeting in Addis, Ethiopia in October. We now start to see the outcomes of these collaborations. There is increased learning between centers, and increased joint participation in various international meetings etc. We expect to see much more impacts in the years to come while these collaborations continue to mature.

*Sustainable Energy Transition Initiative Program leader
Subhrendu Pattanayak presenting at EfD's 2017
Annual Meeting in Addis Ababa, Ethiopia*



Policy Interaction and Communication



Prof. E. Somanathan presenting his paper on economic viability of renewables at the EfD India Annual workshop.

Prof. Chandra Venkataraman, Dept. of Chemical Engineering, Indian Institute of Technology (IIT) Bombay presenting her paper on attributing pollution to various point and non-point sources.

EfD India researchers at forest restoration and institutions session at the EfD 2017 Annual Meeting

CECFEE engaged with decision makers at its annual workshop, held in Udaipur, Rajasthan in 2017, through two panel discussions on different days. These discussions included a focus on air pollution, where the chief executive officer (CEO) of the World Resources Institute (WRI-India) Mr. O.P. Agarwal, and Mr. Priyavrat Bhati, the energy division head of the Centre for Science and Environment (CSE), which is the most prominent non-governmental (NGO) and advocacy organization in

India participated. The director of the Energy Management Centre (EMC) of the state of Kerala, Mr. K.M. Dharsan Unnithan, was present as well.

Another panel on restoring degraded lands included a senior official from the Forest Department of the state of Rajasthan, the CEO of a major NGO in Rajasthan, and the head of the India Biodiversity Portal.



Field trip to restoration sites in cooperation with Seva Mandir, an NGO in Udaipur.

Academic Capacity Building



Classroom at the Indian Statistical Institute (ISI), Delhi campus.

CECFEE accomplished a great deal in 2017, in terms of institution building and bringing EfD's agenda to the center of ISI research discussions. Our researchers taught a number of courses in graduate and post graduate level economics along with advising PhD students working on a number of topics in development economics.

CECFEE has plans to boost capacity in the upcoming year, as has been outlined in the draft work plan. We will have a number of small grants for students to undertake research under faculty guidance.



9 Masters Students on Environmental Economics Courses

3 Masters Theses Completed





EfD in India

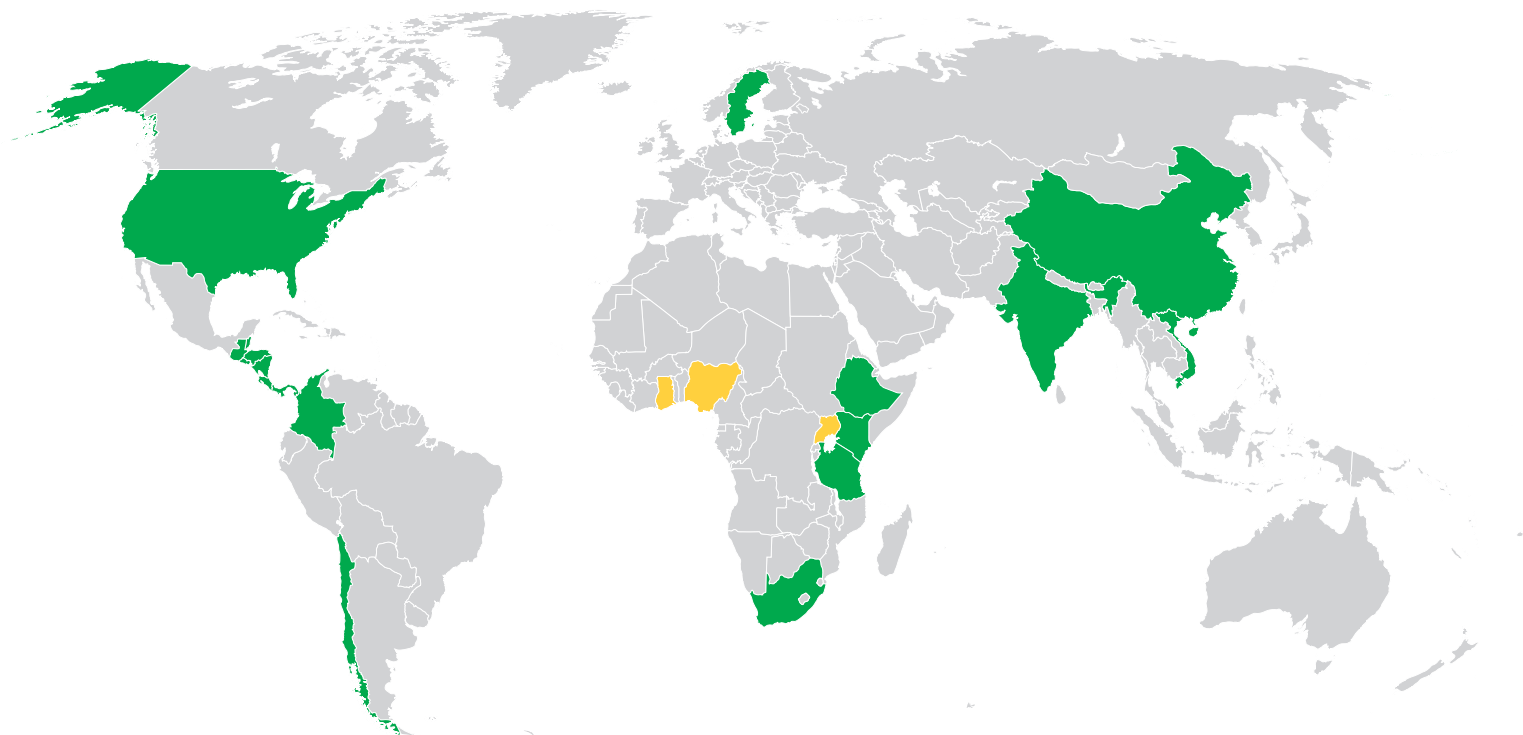
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