

Efd

Environment for Development



EDRI



EFD INITIATIVE CENTER REPORT

ETHIOPIA 2012/13

The Environmental Economics Policy Forum for Ethiopia (EEPFE) works to support poverty alleviation and sustainable development in Ethiopia through increased use of environmental economics in policy making processes.

THIS REPORT

This report presents EfD Ethiopia, its members, and work during 2012/13. The Ethiopian center of the Environment for Development initiative is based at:

Environmental Economics Policy Forum for Ethiopia
Ethiopian Development Research Institute (EDRI)
P.O. Box:2479, Addis Ababa, Ethiopia
Tel: +251-11-553-8632, +251-11-550-6066
Fax: +251-11-550-5588
Email: eepe@ethionet.et
www.efdinitiative.org/centers/ethiopia

Cover photo: Ethiopian women carrying their share of firewood (mainly branches) from the community forest, East Gojjam, June 2012

CONTENTS

P.5

Message from
our center Director

P.6

The EfD Annual Meeting
2012 in Costa Rica

P.8

Research policy
interaction

P.13

Research

P.16

Academic capacity
building

P.18

Spreading the word

P.20

The Ethiopian center in
the EfD network

P.22

The EfD initiative
in brief

P.23

EfD Centers and
Partners

Landscape photo of Tigray, Northern Ethiopia



Contrary to the notion that increased biofuels production will undermine the food security of developing countries, EfD research results show that it can increase production of both food cereals and cash crops in Ethiopia.
Read more on page 8

A farmer with his children, holding jatropha fruit



Alemu Mekonnen, Director

MESSAGE FROM OUR CENTER DIRECTOR

The Environmental Economics Policy Forum for Ethiopia (EEPFE), based at the Ethiopian Development Research Institute (EDRI), is one of six EfD (Environment for Development) Centers located in six countries. These centers are coordinated through the Environmental Economics Unit at the University of Gothenburg in Sweden (where the EfD secretariat is based) with Resources for the Future as a partner involved in research and publication of discussion paper and book series. EEPFE has the main objective of supporting sustainable development and poverty reduction through increased use of environmental economics in policy-making processes in Ethiopia. The Forum works to achieve these goals through rigorous policy-relevant research, policy interaction, and capacity building.

In 2012, EEPFE built on its previous achievements in research, policy, and capacity building. It conducted research on natural resource scarcity and household welfare in rural Ethiopia, common pool resource management and

forest status, determinants of agro-forestry practices in Ethiopia, and profitability and economy-wide effects of biofuel investments (with focus on effects on greenhouse gas emissions and forests). The Forum organized three workshops (on biofuels, climate change, and community forests and climate change), which were attended by a wide variety of people from federal and regional government offices, NGOs, donors, embassies, universities, and research institutes.

This year, EEPFE also organized a workshop to disseminate its work and to receive feedback on research and training areas. The training and research areas identified during this workshop are the basis for research proposals prepared for the Forum's work in 2013. EEPFE also provided in-service training to selected experts from federal and regional government offices. The Forum also organized an international workshop on collaborative research on energy in 2012.

In terms of fund raising, the Forum has begun involvement in a research project financed by the World Bank, work that will continue into 2013 and beyond. The Forum is also in the process of negotiating co-funding and collaborative research with the Ministry of Water and Energy of Ethiopia.

The Forum's work in particular, and that of EfD in general, was introduced to participants at international and national conferences and workshops held in Ethiopia, and at exhibitions and display sections where EEPFE staff participated.

As before, the Forum plans to continue its work on research, policy interaction, and capacity building over the coming years based on its experiences and achievements in the past. Details of the Forum's work during 2012 (presented in this report for 2012) as well as other information about the Forum can be found at www.efdinitiative.org/centers/ethiopia.

Alemu Mekonnen
 Director



The 6th Annual Meeting of the Environment for Development (EfD) Initiative took place in La Fortuna, Costa Rica, between October 25 and 29, 2012. More than 70 people participated.

THE EFD ANNUAL MEETING 2012 IN COSTA RICA

The 6th Annual Meeting of the Environment for Development (EfD) Initiative took place in La Fortuna, Costa Rica, between October 25 and 29, 2012. More than 70 people participated at the rendezvous this year, including researchers from all EfD centers around the world and their collaborators, as well as key stakeholders, to discuss and exchange research results from EfD projects, ideas, and proposals.

Decisions and Discussions on Research

The highlight of the meeting this year was the establishment of EfD as an independent legal entity which will be governed by a board with representatives of the EfD centers. The Board will be the highest decision making body and will appoint the Research Committee and the Secretariat. "This is a historic moment!" said Gunnar Köhlin, Director of the Environment for Development (EfD) Initiative, and a professor in the Department of Economics at the University of Gothenburg. "This will enable EfD to become a truly global organization, with the ambition of becoming the largest and most efficient organization to channel funds for research on environmental economics in developing countries."

The meeting opened with an enthusiastic welcome by Gunnar Köhlin, followed by welcoming

remarks by Francisco Alpizar, director of the EfD Central America Center (EfD-CA), based in Costa Rica. There were three keynote speeches and a panel discussion. The first keynote speech, by Ed Barbier of the University of Wyoming, was on Structural change, dualism and economic development. The second, entitled Measuring the impacts of environmental policies on the environment and the poor: protected areas and ecosystems services, was by Paul Ferraro, from Georgia State University. Lastly, Erin Sills of North Carolina State University gave a presentation on Understanding REDD: What and how can we learn from pilot projects? (REDD stands for Reduced Emissions from Deforestation and Forest Degradation.)

In addition, there were several very informative presentations during the plenary session and the parallel sessions. These covered a series

of issues, including interdisciplinary synthesis research, adaptation to climate change, transportation and congestion, water use and pricing, and fisheries. All of these presentations were given by experts from around the world.

The next EfD Annual meeting will be held in South Africa in 2013.

EfD Policy Day at the Annual Meeting

The Policy Day is becoming a tradition during EfD Annual meetings. This event serves as a stage for researchers, policymakers, and politicians to interact around seminal policy-relevant issues to which EfD researchers can contribute. The 2012 Policy Day kickoff on October 25 brought together more than 55 participants in Santo Domingo de Heredia, Costa Rica. This invited group included both current and

former members of the Costa Rican Congress, ministers of the government of Costa Rica, and representatives from seven government agencies. There were also national and international representatives from eight NGOs, five research institutions or universities, and two private corporations.

The central theme of the Policy Day was research and policy interactions in climate change, water, and conservation of natural resources. Francisco Alpizar, the director of EfD-CA, celebrated the presence of a diverse group of people interested in moving forward research-based policymaking. "We are here to position EfD in the national context, to present developments in research that is relevant for policy design and decision making, to identify key needs for research on issues around the theme of the day, and to facilitate a dialogue between researchers, policy makers, and stakeholders working on defining policies around these subjects," said Alpizar. Most importantly, he added, "we are here because we want to help and to hear from you about the issues on which you need our help; researchers at EfD can provide a small contribution to resolving some of the myriad issues we need to confront."

After Alpizar's opening remarks, Jose Joaquin Campos, the Director General of the Tropical Agriculture and Higher Education Center (CATIE), gave a presentation about climate-smart territories and stressed the opportunities for CATIE and EfD to support human well-being in Latin America and the Caribbean. Campos praised the quality of work and accomplishments of EfD and wished for an even more productive, successful, and consolidated presence of EfD in the region. This presentation was followed by a talk by EfD director Gunnar Köhlin. Köhlin presented on The impact of international cooperation through EfD's research and capacity building. One of his key messages was that, through capacity building, rigorous research, and communication of issues, EfD's

work around the world contributes to well-grounded environmental analysis. This analysis supports key national plans and policies, as he demonstrated with an extended list of examples. Finally, the welcoming session closed with two presentations about cooperation to advance research and capacity building as part of South-South cooperation toward the "green economy." One was by Sergio Musmanni of the German Agency for International Cooperation (GIZ) Office in Costa Rica. The other was by Dr. Yue Zhai, First Secretary for Science and Technology, based at the embassy of the People's Republic of China in Costa Rica, who gave his talk in Spanish.

The Policy Day continued with three plenary sessions. The first brought up the topic of Opportunities for development: from adaptation and mitigation to climate change, starting with a presentation by Thomas Sterner. Sterner is Professor in the Department of Economics at the University of Gothenburg, an EfD Senior Research Fellow, and Visiting Chief Economist at the Environmental Defense Fund (EDF). He spoke about policy options and political feasibility in climate change and other environmental policies. Then, Álvaro Umaña, a Senior Research Fellow at EfD-CA, talked about needed changes in international negotiations on climate change en route to a low carbon economy. He was followed by Celia Harvey, Vice President for Global Change and Ecosystem Services, Conservation International (CI). Celia presented a newly launched collaboration between CATIE and CI called Ecosystem-based Adaptation for Smallholder Subsistence and Coffee Farming Communities in Central America: The CAS-CADE Project.

The second session focused on challenges and opportunities for the green economy and conservation with two presentations. Juan Robalino, another Senior Research Fellow at EfD-CA, presented his work about impacts of conservation policies. After that, Jorge Mario Rodríguez Zúñiga, Executive Director of The

National Forestry Financing Fund (FONAFIFO), talked about the future prospects for REDD+ and other Payment for Environmental Services (PES) schemes in Costa Rica. (The "plus" in REDD+ is for forest conservation, sustainable forest management, and the enhancement of carbon stocks.)

The last session on research and policy interaction on water and climate change consisted of three presentations. First, Róger Madrigal, Research Fellow at EfD-CA, showed the work the center is doing on adaptation to climate change and water governance. Maureen Ballesterio from the Global Water Partnership for Central America and former member of Congress in Costa Rica talked about shaping and advocating for the political agenda on water. Dr. Darner Mora, Director of the Blue Flag Program and the National Water Laboratory, Institute of Aqueducts and Sewage (AyA), ended the session with his presentation about the role of the AyA and its programs in water management.

The Policy Day was a cordial meeting full of exchanges between the speakers and the audience. For a moment, the participants were stranded under the colonial tile roof of the conference venue, which was at a distance from the restaurant where a delicious lunch was being served. The loud sound of the rain falling did not dim the lively discussions and enthusiastic questions between politicians, civil servants, and researchers alike. More than one person suggested that "this type of meeting should take place more often for all to learn and start speaking in the same language".

The media was also present during the day and covered a lot of the issues being discussed. Several EfD researchers and other participants were interviewed by both local and international news reporters. To see the list of media coverage for the Policy Day, visit media coverage EfD in media on www.efdinitiative.org.



Jesper Stage, Research Fellow, Sweden, Stephen Kirama, Research Fellow, Tanzania, Sied Hassen, PhD Student, University of Gothenburg, Moses Ikara, Research Fellow, Kenya



Adolf Mkenda, Research Fellow Tanzania, Thomas Sterner, Research Fellow Sweden and Mintewab Bezabih, Research Associate, Ethiopia



Yonas Alem, Research Fellow Ethiopia and EfD Research Officer, Sweden, Francisco Alpizar, Centre Director and Research Fellow Central America, Simon Wagura, Junior Research Fellow Kenya and PhD Student at the University of Gothenburg. In the back: Jonathan Colmer, PhD Student, London School of Economics, Miguel Quiroga, Universidad de Concepción



Panel discussion with Dr. Darner Mora, Director of the Blue Flag Program and the National Water Laboratory, Institute of Aqueducts and Sewage (AyA), Maureen Ballesterio, Global Water Partnership for Central America and former member of Congress in Costa Rica, Róger Madrigal, Research Fellow Central America and María A. Naranjo, Deputy Director and Research Fellow, Central America.



Participants in the 6th annual EfD meeting



Jane Mariara and Peter Kimuyu, Research Fellows, Kenya

RESEARCH POLICY INTERACTION

EEPFE works closely with various government and non-government agencies to achieve its core goal of supporting and enhancing the policy-making processes for attaining sustainable development in Ethiopia. These include the Ministry of Water and Energy (MWE), Ministry of Agriculture (MoA), Environmental Protection Authority (EPA), and African Climate Policy Center (ACPC). We undertake periodic workshops and seminars on important policy issues in collaboration with researchers from our host institution, the Ethiopian Development Research Institute (EDRI). The EfD initiative is built on the premise that, if relevant applied research is introduced in policy making processes, this will result in improved policies and subsequently poverty reduction and more sustainable development.

Zenebe Gebreegziabher, Research fellow showing a jatropha plant with leaves and fruits

Biofuels increase incomes of poor, EfD Ethiopia study shows

Contrary to the notion that increased biofuels production will undermine the food security of developing countries, EfD research results show that it can increase production of both food cereals and cash crops in Ethiopia. However, the effects vary by region. Also, to be successful from a poverty reduction perspective, biofuels investments must be made on unutilized land. Transfer of technology know-how from biofuel firms to farmers is also required.

POLICY INTERACTIONS

Making Research Policy-Relevant

With the aim of including policy makers in the process of identifying information and research gaps on current environmental issues, EEPFE held a half-day stakeholders' meeting to discuss priority research and training needs with representatives from four of the major government agencies working on environmental issues: the Ministry of Water and Energy, Environmental Protection Authority, Ministry of Agriculture (Natural Resource Directorate), and Ethiopian Wildlife Conservation Authority. This meeting was held on May 3, 2012. Need assessment questionnaires were later distributed to these organizations. The responses were used to frame the research activities of the Forum and to organize an in-service training for civil servants.



Workshop on Climate Change and Agriculture in Ethiopia organized by EEPFE, Dr. Salvatore Di Falco, July 9, 2012

IN 2007, the UN Special Rapporteur on the Right to Food, Jean Ziegler, said in a press briefing "It is a crime against humanity to convert agriculturally productive soil into soil which produces foodstuffs that will be burned into biofuel." He called for a five-year moratorium on biofuel production as the conversion of maize, wheat, and sugar into fuels was driving up the prices of food, land, and water. Other skeptics see the trend of biofuels investments as land grabbing by transnational corporations and foreign governments, and as the new scramble for Africa.

"It is imperative for researchers in a country like Ethiopia, with low income, food insecurity, and external sector imbalance, to undertake empirical research and provide evidence-based policy advice in this area where little is known," says EfD researcher Zenebe Gebreegziabher.

The significant outcome of an assessment study conducted by EfD researchers is that biofuels investments can also have beneficial effects, especially when they involve technol-

ogy transfers and when they are made on unutilized land, so that smallholders do not lose land.

The debate in Ethiopia, according to Gebreegziabher, is that some of the land that seems unutilized because it is not under cultivation might be in use, for example, as grazing land.

"No farmers are actually losing land used for food crops to biofuels production by firms," explained Gebreegziabher. "But some firms are involved in contract farming, where farmers act as 'out-growers' and supply biofuel crops to firms. This has led to worries in Ethiopia that farmers may let more of their land to the firms, which in turn might threaten the farmers' food security. There have also been worries that farmers are not getting good prices from the firms for the biofuels crops they grow through contract farming."

Technology transfers can occur either informally or through conscious intervention, according to Gebreegziabher. The idea is that farmers will be employed in the newly estab-

lished biofuels firms as farm laborers. The firms will then provide training to their employees on modern production practices. Then, know-how gained from biofuels firms will naturally be used by farmers in their own food production. Alternatively, firms can engage in conscious technology transfer. Some biofuels firms that are engaged in contractual farming agreements provide training to the farmers on how to grow the crops, e.g., seeding, weeding, pest control, and harvesting. Finally, the NGOs studied in this research are interested in biofuels as a community development option, and are engaged in knowledge and technology transfer activities.

"Our findings show that biofuel expansion can help improve economic growth if such investment generates technology transfer. Without knowledge transfer, however, the effect of biofuel investment on economic growth is negligible," says Gebreegziabher.

The findings from Ethiopia also show that biofuels investments can improve smallholder food security and increase household welfare, depending on the region. Production of both

Discussing and Disseminating Research Results

EEPFE has also organized three national workshops to discuss and disseminate research results on current environmental issues. The Workshop on Climate Change and Agriculture in Ethiopia was held on July 9, 2012 and covered topics on weather uncertainty, food security, and adaptation from the perspective of Africa agriculture. The Workshop on Impacts and Profitability of Biofuel in Ethiopia was held on September 14, 2012, to discuss the economy-wide impacts of biofuels on economic growth, food security, the external sector, and emissions, as well as profitability of the biofuel sector. The Workshop on Community Forests, Climate Change, and REDD+ in Ethiopia, held on December 10, 2012, was aimed at giving information necessary for stakeholders to evaluate the project designs of Forest Sector Institutional Reform and REDD+, as well as contributing to international and national policy dialogues on the issue of REDD+, and obtaining feedback from stakeholders.

Promoting EEPFE and Policy Interaction

Promoting EEPFE in different platforms has increased awareness of the existence of the Forum and hence promoted the role of environmental economics throughout the country. These platforms are an effective means of disseminating resources such as discussion papers and brochures and a great opportunity for networking. With this objective in mind, EEPFE has participated in high level policy conferences and workshops, such as the Fourth African Carbon Forum on April 18, 2012, through exhibitions and displays. The African Carbon Forum was a particularly good opportunity, as Ethiopia had the chance to host this year's event at the UNECA. During such events, various local and international stakeholders showed great interest in collaborating with EEPFE due to its close working relations with the Ethiopian Development Research Institute (EDRI) and other policy-making institutions.

IN-SERVICE TRAINING

The in-service training on “Environmental Economics” was organized by the Environmental Economics Policy Forum for Ethiopia (EEPFE) from December 24-28, 2012 in Addis Ababa. The trainees were drawn from different public institutions at both the federal and regional level. The training was delivered by EEPFE researchers. The mode of delivery consisted of lectures, discussions, exercises and applications. The training modules covered different issues such as approaches to economic measurement issues, foundations of environmental and resource economics, environmental valuation, economic aspects of resource management and use, environmental policy instruments, energy types, use, and efficiency, property rights and resource management, aspects of common pool resource management, and global environmental issues. The courses offered were:

- Dr. Alemu Mekonnen: Foundations of environmental and resource economics: the need for environmental economics. Market failure: externalities and public goods
- Dr. Alemu Mekonnen: Environmental valuation: theory and methods
- Dr. Tadele Ferede: Economic indices and measurement issues, indicators of economic performance, and alternative measures of economic progress and welfare
- Dr. Zenebe Gebreegziabher: Environmental policy instruments: why policy instruments, alternatives available, and selection of policy instruments
- Dr. Zenebe Gebreegziabher: Property rights and resource management; aspects of common pool resource management
- Dr. Zenebe Gebreegziabher: Global environmental issues; climate change, adaptation and mitigation; green growth initiatives (e.g. CRGE)
- Dr. Abebe Damte: Energy types, use, and efficiency; approaches to energy management



In-service training on Environmental Economics from December 24-28, 2012, EDRI Addis Ababa

- Dr. Abebe Damte: Determinants of energy use; macro and micro level determinants
- Dr. Adane Tuffa: Economic aspects of resource management and use

POLICY LINKS

The Environmental Economics Policy Forum for Ethiopia (EEPFE) at the Ethiopian Development Research Institute (EDRI) has links to and/or interacts with a number of institutions in and outside Ethiopia.

Governmental institution

- Ethiopian Development Research Institute (EDRI)
- Ethiopian Environmental Protection Authority (EPA)
- Ethiopian Wildlife Conservation Authority (EWCA)
- Ministry of Agriculture (MOA)
- Ministry of Water and Energy (MWE)
- Regional Bureau of Agriculture
- Regional Bureau of Environmental Protection Authority
- Regional Bureau of Water and Energy
- School of Economics of the Addis Ababa University.



Jatropha seeds

food cereals and cash crops increases in four of the seven scenarios investigated by the EfD team, but with some negative effects in two of these.

Moreover, the analysis makes projections covering the period 2005-2020. These projections suggest that, when the biofuels sector operates at full scale, Ethiopia will be producing less export commodities (given the current land allocated for biofuels investment). The reduced production of traditional Ethiopian export commodities such as coffee, pulses, oilseed, fruits, vegetables and tea implies that the impact on the external sector, exports and imports, is negative. Biofuels expansion affects both the real exchange rate and production of export commodities.

In summary, biofuels expansion has both positive and negative impacts on Ethiopian smallholder farmers depending on the region, or the agro-ecological zone. Smallholder farmers in areas where biofuels crops are located benefit, whereas farmers elsewhere are negatively impacted.

“Although biofuels expansion might have a negative effect on food production in some regions, the beneficial effects elsewhere outweigh the negative effects. Overall it does not undermine the country's food production or food security, but is instead pro-poor,” says Gebreegziabher.

Biofuels investments are new to the Ethiopian economy. Therefore, there was little public information available to EfD researchers in conducting this analysis. Hence, the team collected and used data from 15 biofuels firms and two NGOs, and formulated seven biofuels investment scenarios in different regions of Ethiopia. The data collection process wasn't easy. Obtaining data from businesses required a lot of diplomacy and a number of revisits, according to Gebreegziabher. However, the use of actual firm-level data was a real strength of the study, according to an EfD collaborator who reviewed the work.

The survey also revealed that one company has started exporting biodiesel, and that local innovations are being made, such as the invention of biodiesel stoves and biogas driven-vehicles.

“This suggests that the sector could possibly be an avenue to reducing poverty and enhancing growth. However, the sector suffers from lack of appropriate institutional setup in terms of better regulatory framework and follow up, particularly at the regional level,” says Gebreegziabher.

The findings were presented to stakeholders from both governmental and non-governmental organizations at a workshop organized by the Environmental Economics Policy Forum for Ethiopia on September 14, 2012, in Addis Ababa. The participants represented the Ministry of Water and Energy (the Biofuels Development and Utilization Directorate), Ministry of Agriculture (the Natural Resources

Directorate), Ministry of Industry, Ethiopian Investment Agency, Federal Environmental Protection Authority, regional energy agencies, firms/ investors, representatives of UN agencies, and local NGOs.

“As a researcher, it is extremely exciting to contribute in an area where there is indeed a knowledge gap. Ethiopia's biofuels development and utilization strategy is in the process of being revised, so our findings will be good inputs. The research-based knowledge can be applied in deciding where in the country biofuels investments can be promoted, and how to make the best out of them,” says Gebreegziabher.

Gebreegziabher, Zenebe, Alemu Mekonnen, Tadele Ferede, Fantu Guta, Jörgen Levin, Gunnar Köhlin, Tekie Alemu, and Lars Bohlin. 2013. “The Distributive Effect and Food Security Implications of Biofuels Investment in Ethiopia: A CGE Analysis.” Environment for Development Discussion Paper Series January 2013. EfD DP 13-02.

Non-governmental institutions

- African Climate Policy Center (ACPC)
- Forum for Environment
- Climate Change Forum-Ethiopia
- GIZ ECO-Ethiopia
- Sustainable Land Use Forum

International institutions

- World Bank
- International Food Policy Research Institute (IFPRI)
- Rights and Resources Initiative (RRI)
- Portland State University
- London School of Economics

The Forum also naturally interacts with other centers of the EfD initiative, the EfD secretariat, and Resources for the Future.

POLICY SEMINARS, WORKSHOPS AND CONFERENCES

Stakeholders' meeting to discuss priority research and training

needs was held on May 3, 2012, to identify policy-relevant research topics and training needs of various environment related policy-making institutions. Over 20 key personnel participated in this meeting, representing each directorate in four of the ministry offices working on environmental issues, thus producing a productive and interactive session. Natural resource valuation has been identified as the most important research area and a focal point for training for these offices. Various topics in forestry, climate change, agriculture, water management, pollution, and the energy sector were suggested as priority research topics. Besides environmental pricing and valuation techniques, other major training

needs mentioned in the meeting included environmental policy instruments, impact assessment techniques, and building capacity in energy policy development.

Climate Change and Agriculture in Ethiopia held on July 9, 2012, covered topics on weather uncertainty, food security, and adaptation from the perspective of African agriculture. Findings indicated the effect of long-term temperature variations across high and mid-altitude crops, thus indicating the need for quick adaptation strategies for local agrarian communities. Adaptation to climate change was noted as an effective means of increasing agricultural productivity and hence food security. Information and extension services could play major roles in creating awareness of climate change and various adaptation strategies. Such educational services, as well as availability of credit markets, are essential drivers for the decisions of farm households to adapt to climate change.

Impacts and Profitability of Biofuel in Ethiopia held on September 14, 2012 included research presentations on biofuels investment and the environment, global perspective on the economy-wide impact of biofuels investments, Computable General Equilibrium (CGE) modeling and simulation scenarios, impacts of biofuels investment on food security, economic growth, the external sector, and poverty reduction in Ethiopia, and profitability analysis of biofuels investment in Ethiopia.

Community Forests, Climate Change, and REDD+ in Ethiopia held on December 10, 2012 included research presentations on REDD+, community controlled forests, carbon sequestration, local institutions, and better forest management. The workshop also aimed at providing information necessary for stakeholders to evaluate the project designs of Forest Sector Institutional Reform and REDD+, to contribute to international and national policy dialogues on the issue of REDD+, and to obtain feedback from stakeholders on this as well as on papers presented at the workshop.



Annual Review Meeting at EEPFE, 21-22 February 2012

RESEARCH

Applied, policy relevant research is a core activity for the EfD initiative. Research is a critical input in a long-term strategy to reduce environmental degradation, eradicate poverty, and to ensure sustainable use of natural resources. A major challenge in developing countries, however, is the lack of comprehensive research on environmental resource management and poverty alleviation which can inform national strategic plans and policies. Policymakers, farmers, donors, and others need research-based information, not only to design policies but also to evaluate their efficiency in reaching their objectives.

PUBLICATIONS 2012

Peer reviewed

Di Falco Salvatore, Gunnar Köhlin, and Mahmud Yesuf. 2012. "Strategies to Adapt to Climate Change and Farm Productivity in the Nile basin of Ethiopia." *Climate Change Economics* 3(2).

Beyene, Abebe D. and Steven F. Koch. 2012. "Clean Fuel-Saving Technology Adoption in Urban Ethiopia." *Energy Economics* November 9, 2012. [dx.doi.org/10.1016/j.eneco.2012.11.003](https://doi.org/10.1016/j.eneco.2012.11.003).

Bezu, Sosina and Christopher Barrett. 2012. "Employment Dynamics in the Rural Nonfarm Sector in Ethiopia: Do the Poor Have Time on their Side?" *Journal of Development Studies* 48(9): 1223-1240.

Balcilar, Mehmet, Abebe Beyene, Rangan Gupta, and Monaheng Seleteng. 2012. "Ripple Effects in South African House Prices." *Urban Studies*. Oct 4, 2012, doi: 10.1177/0042098012458551.

Teklewold, Hailemariam. 2012. "The Impact of Shadow Prices and Farmers' Impatience on the Allocation of a Multipurpose Renewable Resource in Ethiopia." *Environment and Development Economics* 17(04): 479-505.

Bezu, Sosina, Christopher B. Barrett, and Stein T. Holden. 2012. "Does the Nonfarm Economy Offer Pathways for Upward Mobility? Evidence from a Panel Data Study in Ethiopia." *World Development* 40(80): 1634-1646.

Worku, Genanew Bekele and Alemu Mekonnen. 2012. "Investments in Land Conservation

in the Ethiopian Highlands: A Household Plot-level Analysis of the Roles of Poverty, Tenure Security, and Market Incentives." *International Journal of Economics and Finance* 4(6): 32-50.

Bezabih, Mintewab, Gunnar Köhlin, and Andrea Mannberg. 2011. "Trust, Tenure Insecurity, and Land Certification in Rural Ethiopia." *Journal of Socio-Economics* 40(6): 833-43.

EfD Discussion papers

Damte, Abebe, Mintewab Bezabih, and Zenebe Gebreegziabher. 2012. "Contract Duration under Incomplete Land Ownership Rights: Empirical Evidence from Rural Ethiopia." *EfD DP* 12-09. Washington, DC: Resources for the Future and Environment for Development.

Dagnaw, Hagos, Alemu Mekonnen, Zenebe Gebreegziabher. 2012, "Households' Willingness to Pay for Improved Urban Waste Management in Mekelle City, Ethiopia." *EfD DP* 12-06. Washington, DC: Resources for the Future and Environment for Development.

Menale, Kassie, Moti Jaleta, Bekele Shiferaw, Frank Mmbando, and Geoffrey Muricho. 2012. "Plot and Household-Level Determinants of Sustainable Agricultural Practices in Rural Tanzania." *EfD DP* 12-02. Washington, DC: Resources for the Future and Environment for Development.

Damte, Abebe, Steven F. Koch, and Alemu Mekonnen. 2012. "Coping with Fuelwood Scarcity: Household Responses in Rural Ethiopia." *EfD DP* 12-01. Washington, DC: Resources for the Future and Environment for Development.

Research briefs

Gebreegziabher, Zenebe, Jesper Stage, Alemu Mekonnen, and Atlaw Alemu. 2012. "Climate Change and the Ethiopian Economy." *EfD Research Brief Series* 12-03. Ethiopia: Environment for Development Ethiopia. <http://www.efdinitiative.org/centers/ethiopia/publications-projects/research-briefs?uid=fc9062ec6b0d0512ff266ec5a5e5c3be>

Gebreegziabher, Zenebe, Alemu Mekonnen, Menale Kassie, and Gunnar Köhlin. 2010. "Households Consider Diversity of Attributes in Their Decisions to Plant Trees." *EfD Research Brief Series* 12-02. Ethiopia: Environment for Development. <http://www.efdinitiative.org/centers/ethiopia/publications-projects/research-briefs?uid=5c8d677e479707d655be7fb359ff45ee>

Discussion papers)

Demeke, Mulat, David Dawe, James Tefft, Tadele Ferede, and Winnie Bell. 2012. "Stabilizing Price Incentives for Staple Grain Producers in the Context of Broader Agricultural Policies Debates and Country Experiences." *ESA Working paper No.* 12-05. September 2012.

Book chapters

Munir A. Hanjra, Tadele Ferede, A. Narayana-moorthy and Richard J. Culas. 2012. *Global poverty: Definition and Measurement Issues*. In *Progress in Economics Research*, edited by A. Tavidze. vol. 26. New York: Nova Science Publishers, Inc.

Reports

Seyoum, Aseffa, Zenebe Gebreegzabher, Alemu Mekonnen, and Adane Tufa. 2012. “Harnessing Climate Finance for Climate Protection and Sustainable Development in Africa.” Ethiopia: Ethiopian Development Research Institute., EDRI Research Report 16, November 2012

Tuffa, Adane, Alemu Mekonnen, Zenebe Gebreegzabher, and Assefa Seyoum. 2012. “Climate Conventions and Africa/Ethiopia.” Ethiopia: Ethiopian Development Research Institute., EDRI Research Report 15, September 2012.

Gebru, Bahre and Sosina Bezu. 2012. “Environmental Resource Collection versus Children’s Schooling: Evidence from Tigray, Northern Ethio-

pia.” Ethiopia: Ethiopian Development Research Institute., Working Paper 007, March, 2012.

Gebreegzabher, Zenebe, Alemu Mekonnen, Adane Tuffa, and Aseffa Seyoum. 2012. “Carbon Markets and Mitigation Strategies for Africa/Ethiopia: Literature Review and the Way Forward.” Ethiopia: Ethiopian Development Research Institute, Research Report 14, April, 2012.

PROJECTS 2012

For more information on each project, please see the website.

Profitability and Economy-wide Impact of Biofuel Investments in Ethiopia

Theme: Agriculture and Sustainability

PI: Tadele Ferede/Zenebe Gebreegzabher

Determinants of Farm Households’ Agro-Forestry Technology Adoption in Ethiopia

Theme: Agriculture and Forestry

PI: Abebe Damte

Impact of Biofuel Investment on Growth, the External Sector and Poverty Reduction in Ethiopia: CGE Analysis

Theme: Sustainable Agriculture and Poverty Reduction

PI: Tadele Ferede/Zenebe Gebreegzabher

Local Common Property Systems in Ethiopia: An Empirical Analysis of the Link between User Characteristics, Resource Characteristics, and Institutional Regime

Theme: Managing the Commons

PI: Zenebe Gebreegzabher

On Adaptation to Climate Change and Food Security in Ethiopia

Theme: Responses to Climate Risk

PI: Salvatore di Falco/Alemu Mekonnen

Review of Local Common Pool Resource Management Institutions in Ethiopia

Theme: Management of the Commons

PI: Zenebe Gebreegzabher

Natural Resources Degradation and Household Welfare in Rural Ethiopia

Theme: Agriculture and Sustainability

PI: Abebe Damte

Common Property Forest Management: Implications for REDD in Ethiopia

Theme: REDD

PI: Randall Bluffstone/Abebe Damte

PROJECTS 2013

Title: Local Institutions and Better Forests: Empirical Evidence from Household Data

Theme: Managing the Commons

PI: Zenebe Gebreegzabher

Title: Adaptation to climate change in Ethiopia: The Potential Role of Sustainable Land Management Practices

Theme: Agriculture and Climate Change

PI: Salvatore di Falco/ Alemu Mekonnen

Title: Economic Valuation (Pricing), Institutions, and Water Use Efficiency in Smallholder Irrigation Systems in Ethiopia

Theme: Policy Design

PI: Zenebe Gebreegzabher

Title: Economy-wide Impact of the Electricity Sector in Ethiopia

Theme: Energy

PI: Tadele Ferede

Title: Local Institutions and Better Forests: Empirical Evidence from Community Level Data

Theme: Managing the Commons

PI: Zenebe Gebreegzabher

Title: Profitability and Economy-wide Impact of Biofuel Investments in Ethiopia

Theme: Sustainable Agriculture and Poverty Reduction

PI: Tadele Ferede/Zenebe Gebreegzabher

Title: Resources Degradation and Household Welfare in Rural Ethiopia

Theme: Agriculture and Sustainability

PI: Abebe Damte

Title: Determinants of Farm Households’ Agro-Forestry Technology Adoption in Ethiopia

Theme: Agriculture and Forestry

PI: Abebe Damte

RESEARCH PRESENTATIONS

Academic conferences

Workshop on Energy Policies and Plans of Ethiopia: Opportunities for Cooperation Between Ethiopia and South Korea

- Alemu Mekonnen: Opportunities for cooperation in the energy sector between Ethiopia and South Korea

Eminence Environmental Initiative World Environment Day Festival

- Alemu Mekonnen: Interactive discussion on building a green economy in Ethiopia

Workshop on Climate Change and Agriculture in Ethiopia

- Alemu Mekonnen: Impacts of climate change and weather uncertainty on agricultural incomes
- Salvatore Di Falco: Does adaptation to climate change provide food security? A micro-perspective from Ethiopia
- Salvatore Di Falco: How African agriculture can adapt to climate change: A counterfactual analysis from Ethiopia

Ethiopian Economic Association’s First Annual Conference on Tigray National Regional State Economic Development

- Zenebe Gebreegzabher: Sources of technical efficiency differentials among smallholder farmers in Tigray, northern Ethiopia: Panel data evidence and implications for food security

UNDP Platform for Development Round Table on “Potentials for Green Investment in Sudan

- Alemu Mekonnen: Lessons and good practices in formulating green economy strategies, green investment and technologies (the case of Ethiopia)

Tenth International Conference on the Ethiopian Economy

- Alemu Mekonnen: Poverty and rural household biomass fuel collection evidence from the highlands of the Amhara region, Ethiopia
- Abebe Damte: Determinants of Household Cooking Energy Choice in Urban Ethiopia: Panel Data Evidence

- Tadele Ferede: Biofuels, economic growth, external sector and poverty reduction in Ethiopia: a computable general equilibrium analysis
- Zenebe Gebreegzabher (presented by Tsehay Ataklt): Would Community and Household Tree Planting Imply More Wood Being Available for Fuel?

Workshop on the Impacts and Profitability of Biofuel in Ethiopia

- Fantu Guta: Computable General Equilibrium (CGE) model and simulation scenarios
- Tadele Ferede: Impacts of biofuels investment on food security, economic growth, external sector and poverty reduction in Ethiopia
- Fantu Guta: Biofuels investment and environment (GHG emissions)
- Alemu Mekonnen: Biofuels Investment and the Environment (Forestry and GHG Emissions)
- Zenebe Gebreegzabher: Profitability analysis of biofuels investment in Ethiopia
- Jorgen Levin: Economy-wide impact of biofuels investments: An overview of global perspectives and analytical frameworks employed

Green Growth for Sustainable Development–Lessons learned, Next steps and Implications for Development and Development Cooperation

- Alemu Mekonnen: Ethiopia’s Climate Resilient Green Economy Strategy

Pricing National Park Resources

- Rahel Deribe: Pricing protected areas in Ethiopia

Climate Change and Development Policy

- Abebe Damte: Common Property Forest Management: Implications for REDD in Ethiopia

International Conference on Sustainable Development, Social Welfare, and Structural Transformation: Does Green Economy Offer New Perspectives?”

- Abebe Damte: Ethiopian Green Growth Strategy

Workshop on Community Forests, Climate Change and REDD+ in Ethiopia

- Abebe Damte: Community controlled forests, carbon sequestration and REDD+: Some evidence from Ethiopia
- Zenebe Gebreegzabher: Local institutions and better forests: Empirical evidence from community level data
- Randall Bluffstone: REDD+ and community controlled forests

Academic seminars

Research Seminar 7th

- Dr. Bamlak Alamirew : “Food Security and Vulnerability Status of Households in Addis Ababa: A household food insecurity access scale measurement”

Research Seminar 8th

- Dr. Ho Mun: “Productivity in the Information Age and the ‘jobless growth’ period in the U.S.”

Research Seminar 9th

- Dr. Bart Minten: “Structural transformation in Ethiopia: Evidence from cereal markets”

Research Seminar 10th

- Alemayehu Seyoum : “Formation of Aspirations – An Empirical Analysis”

Research Seminar 11th

- Derek Headey: “Urban wage behavior during food price hikes: The case of Ethiopia”

Research Seminar 12th

- Guush Berhane: “Weather insurance: Results from a randomized experiment in Ethiopia”

Research Seminar 13th

- Emily Schmidt: “Impact of Sustainable Land and Watershed Management (SLWM) Practices in the Blue Nile”

Research Seminar 14th

- Alemayehu Seyoum: “Aspirations and Household Choices – Evidence from a Randomized Field Experiment in Rural Ethiopia”



Research Seminar Series at the Department of Economics in Addis Ababa University



Ph.D. and M.Sc. students in Environmental Economics at Addis Ababa University

ACADEMIC CAPACITY BUILDING

The EfD academic capacity building component is designed to minimize the shortage of trained environmental economists in developing countries by supporting undergraduate and postgraduate studies in environmental economics and by building the capacity of local public universities through teaching support, research grants, books, and other support. Linking research with academia is one of the unique features of EfD.

EEPFE has established very close academic links with the Department of Economics at Addis Ababa University (AAU) with the aim of increasing the number of trained environmental economists. We support the Research Seminar Series at the Department of Economics in AAU. Most of our research fellows are actively involved in teaching and thesis supervision in both the undergraduate and the graduate programs at Addis Ababa University, Mekelle University, and Hawassa University in the country.

EEPFE also provides MSc thesis grants to those doing their thesis in the area of resource and environmental economics. EEPFE also strives to expand the area of environmental economics throughout Ethiopia. In this regard, we have initiated dialogues with various higher learning institutions with master's level programs in economics and/or natural resource management. In addition, EEPFE provides books and publication support to these higher learning institutions.

COURSES TAUGHT BY EFD ETHIOPIA INCLUDE

Undergraduate courses

- Natural resource and environmental economics

Graduate courses

- Natural Resource Economics
- Environmental Valuation and Policy

Msc Theses

- Getnet Berhanu: Economics Valuation of Wetland Ecosystems in the Mt. Choke Range, East Gojam, Ethiopia. Supervised by Dr. Alemu Mekonnen
- Nega Assefa: Valuing the Economic Benefit of Irrigation Water: The Case of Ribb Irrigation and Drainage Project in South Gonder, Ethiopia: An Application of Choice Experiment and Contingent Valuation Methods. Supervised by Dr. Alemu Mekonnen
- Elias Mekonnen Shibeshi: Technical Efficiency of Smallholder Sorghum Producers in Gubalafto, North Eastern Ethiopia: a Stochastic Frontier Analysis. Supervised by Dr. Zenebe Gebreegziabher
- Muuz Hadush: Impact of Zero Grazing Adoption on Crop and Milk Production and Child Education in Small Farms: Evidence from Tahtay Maichew. Supervised by Dr. Zenebe Gebreegziabher
- Hailay Tesfay: The Impact of Compost Use and Chemical Fertilizer Adoption on Crop and Straw Productivity of Smallholder Farmers: A Case of Tahtay Maichew Wereda, Tigray. Supervised by Dr. Zenebe Gebreegziabher
- Feben Abebe: The Impact of AID on Trade in Ethiopia. Supervised by Dr. Fantu Guta
- Getache Melese: Access in Determining FDI: Panel data analysis of SSA countries. Supervised by Dr. Fantu Guta
- Zeleke Ayalew: Evaluation of Ethiopia's Bilateral and Potential Exports in the Emerging Countries: A Gravity Model Approach. Supervised by Dr. Fantu Guta
- Daniel Abebe: Empirical Characterization of the Dynamic Effects of Fiscal Policy Shock on Key Macroeconomic Variables in Ethiopia. Supervised by Dr. Fantu Guta
- Eden Shiferaw: Modeling Inflation Volatility and its Effect on Economic Growth: Using ARCH/GARCH and VAR model. Supervised by Dr. Fantu Guta
- Kidist Ibire: The Role of Higher Education on Economic Growth in Ethiopia. Supervised by Dr. Fantu Guta
- Seyoum Teffera: The Nexus Between Export and Economic Growth in Ethiopia: Sectoral Approach. Supervised by Dr. Tadele Ferede
- Tesfaye Desalegn: Child Labour Versus Educational Attainment Trade-off: The Case of Wolkite Town, Southwestern Part of Ethiopia. Supervised by Dr. Tadele Ferede
- Selamawit Gegziabher: Why Ethiopian Airlines Became Successful and What are the Lessons for other Public Companies? Supervised by Dr. Tadele Ferede
- Alemnesh Tadesse: The Nexuses Between Public Investment, Private Investment, Trade Openness, and Economic Growth in Ethiopia: Co-Integration VAR Approach. Supervised by Dr. Tadele Ferede
- Bethelhem Berhane: The Effect of Improved Productivity of the Manufacturing Industry on the Ethiopian Economy: A Computable General Equilibrium (CGE) Analysis. Supervised by Dr. Tadele Ferede



Photo taken while conducting survey on Common Property Resources (CPR) in East Gojjam, Ethiopia, June, 2012.

SPREADING THE WORD

News about research and policy interaction

2012-02-24

EfD's First Collaborative Research Workshop on Energy held in Addis Ababa, Ethiopia

Research on energy demand in developing countries is important for many reasons. The existing widespread use of solid energy sources (e.g. fuelwood, dung, charcoal, coal, leaves, twigs) in sub-Saharan Africa, and in the developing world in general, has a number of environmental implications. Deforestation, disturbance in watersheds, indoor air pollution, and loss of biodiversity are some of them. On the other hand, climbing the “energy ladder” has implications for greenhouse gas emissions. Thus, understanding the pattern of household energy demand and its implications for the environment is crucial to formulate appropriate energy and climate policies that affect household welfare, local environment, and climate change.

2012-03-31

Promoting EEPFE and Policy Interaction

Promoting EEPFE in different platforms has been a useful means of increasing awareness of the existence of the Forum and hence a way of promoting environmental economics throughout the country. These platforms are an effective means of disseminating resources such as discussion papers and brochures and a great opportunity for policy interaction. With this objective in mind, EEPFE has participated in high level policy dialogues and workshops including exhibitions and displays.

2012-04-30

WB Report: Possible dams in the Blue Nile gorge analyzed

Profs. Whittington and Jeuland have completed an economic analysis of possible dams in the Blue Nile Gorge, for the World Bank. The

report, entitled Eastern Nile Strategic Economic Assessment: A Scoping-level Economic Analysis of Multipurpose Dams in the Blue Nile Gorge, examines the economic benefits of the Renaissance Dam, as well as other dam options, to Ethiopia and the downstream riparians (Egypt and Sudan).

2012-05-29

Stakeholder Meeting to Discuss Priority Research and Training Needs

EEPFE held a half-day meeting with representatives from four of the major government-level stakeholders working on environmental issues—the Ministry of Water and Energy, Environmental Protection Authority, Ministry of Agriculture (Natural Resource Directorate), and Ethiopian Wildlife Conservation Authority - to discuss priority research and training needs on May 3, 2012.

2012-07-13

Ethiopia: Weather Uncertainty, Climate Change, and Adaptation

A half-day workshop was organized by the Environmental Economics Policy Forum for Ethiopia on July 9, 2012, to discuss recent findings on Climate Change and Agriculture in Ethiopia. The workshop brought together over thirty researchers, academicians, project developers, and implementers from over 20 governmental and non-governmental organizations.

2012-07-24

EEPFE participation in the International & Annual Conference on the Ethiopian Economy

The conference was organized by the Ethiopian Economics Association (EEA) on July 19-21, 2012, in Addis Ababa. EEPFE researchers and research associates presented their papers on this conference and also on the First Annual Conference on the Tigray Regional State Economic Development organized in Mekelle on July 14, 2012.

2012-07-25

EEPFE represented on high-level experts' consultative meeting on Sustainable Energy for All in Africa (SEFA-Africa)

This meeting was held from 9-11 July 2012 in Addis Ababa. The Environmental Economics Policy Forum for Ethiopia (EEPFE) received an invitation as one of the institutions with the most resources available to play a major role in moving forward Africa's energy agenda. Dr. Abebe Damte, Research Fellow of EEPFE, represented the forum at this meeting.

2012-07-30

EEPFE Center Director Shares Ethiopia's Experience on Green Economy Strategies in Sudan

EEPFE Center Director and Senior Research Fellow, Dr. Alemu Mekonnen, participated on the UNDP Platform for Development Round Table on “Potentials for Green Investment in Sudan” to share Ethiopia's experience and lessons learned in formulating Green Economy Strategies.

2012-09-27

Workshop Discusses the Impacts and Profitability of Biofuel in Ethiopia

A half-day workshop was organized by the Environmental Economics Policy Forum for Ethiopia on Impacts and Profitability of Biofuel in Ethiopia on September 14, 2012, in Addis Ababa. Various stakeholders from governmental and non-governmental organizations, as well as from academia and research institutions, participated in this informative workshop.

2012-10-28

EEPFE Research Fellow presents a paper on Common Property Forest Management

EEPFE research fellow Dr. Abebe Damte presented a paper on “Common Property Forest Management: Implications for REDD in Ethiopia” at the Climate Change and Development Policy Conference organized by the UNU-WIDER from September 28-29, 2012 in Helsinki, Finland.

2012-10-29

Mintewab Bezabih received award for best paper on gender

“The Role of Land Certification in Reducing Gender Gaps in Productivity in Rural Ethiopia,” written by EFD research fellow Mintewab Bezabih, EFD Associate Stein T. Holden and Andrea Mannberg, was given the “Uma Lele's Award to Best Contributed Paper on Gender” at the International Conference of Agricultural Economists (IAAE).

2012-11-07

Presenting Ethiopia's Green Growth Strategy

Environmental Economics Policy Forum for Ethiopia (EEPFE) Research fellow Dr. Abebe Damte presented the Ethiopian Green Growth Strategy at the International Conference on “Sustainable Development, Social Welfare, and Structural Transformation: Does Green Economy Offer New Perspectives?” which was held in Dakar, Senegal from November 5-6, 2012. The conference was organized by the Friedrich-Ebert-Stiftung and ENDA and it aimed at assessing whether the Green Economy offers new perspectives on the efforts targeting sustainable development in Africa.

2012-12-14

Workshop on Community Forests, Climate Change, and REDD+ in Ethiopia

The workshop on Community Forests, Climate Change, and REDD+ in Ethiopia was organized by the Environmental Economics Policy Forum for Ethiopia (EEPFE) in collaboration with Portland State University and the World Bank on the 10th of December 2012 at Desalegn Hotel, Addis Ababa.

2012-12-31

Ethiopia: In-Service Training on “Environmental Economics” Completed

The in-service training on “Environmental Economics” was organized by the Environmental Economics Policy Forum for Ethiopia (EEPFE) based at the Ethiopian Development Research Institute (EDRI) from December 24-28, 2012, in Addis Ababa.



Zelealem Ghebremedhin, EEPFE Project Manager, Promoting EEPFE at the Tenth International Conference of the Ethiopian Economics Association, July 19-21, 2012

IN THE MEDIA

2012-07-09

Walta Info: Workshop Discusses Impact of Climate Change on Agriculture Income, Addis Ababa, July 9 (WIC) – A

workshop on climate change and agriculture in Ethiopia organized by the Environmental Economics Policy Forum for Ethiopia (EEPFE) based at the Ethiopian Development Research Institute (EDRI) was held on July 9, 2012.

THE ETHIOPIAN CENTER IN THE EFD NETWORK

The Environmental Economics Policy Forum for Ethiopia (EEPFE) is the Ethiopian center in the EfD network. The Ethiopian Development Research Institute (EDRI) hosts EEPFE as one of its projects to work on environment-related issues. EDRI provides financial and administration support services to EEPFE. The Forum was founded in 2003. Its goal is to support poverty alleviation and sustainable development through increased use of environmental economics in policy making processes.

More specifically, the forum has the following objectives:

- 1) Increase the number of trained environmental economists by creating a conducive working environment for environmental economics PhD graduates and providing research grants for local MSc environmental economics students;
- 2) Strengthen the capacity of environmental economics graduates to do applied research on poverty and environmental management by linking research fellows with international research organizations and enabling them to participate in international and national conferences;
- 3) Undertake objective research and analysis on impact assessment, environmental management, and poverty with the goal of providing advice to policy makers and development agencies;

- 4) Collect and analyze data on sustainable land use with the objective of disseminating results to a wide range of stakeholders through workshops, conferences, internal seminars, distribution of research publications, and policy briefs;
- 5) Increase the knowledge of civil servants and other stakeholders on environmental and development issues with the objective of increasing awareness of the link between environmental management and poverty alleviation.

EEPFE's Vision

To be the leading center for environmental economics policy research and a focal point for interactions among researchers, practitioners, policy makers, and civil society interested in policy oriented environmental research in Ethiopia. To provide quality policy advice to the govern-

ment and other stakeholders based on objective research and to engage in capacity building to reduce poverty and contribute to sustainability.

EFD ETHIOPIA STAFF

Local researchers and staff

Ph.D. Alemu Mekonnen
CENTER DIRECTOR AND SENIOR RESEARCH FELLOW

Ph.D. Zenebe Gebreegziabher
DEPUTY CENTER DIRECTOR AND SENIOR RESEARCH FELLOW

Ph.D. Tadele Ferede
DEPUTY CENTER DIRECTOR AND SENIOR RESEARCH FELLOW

Ph.D. Abebe Damte
RESEARCH FELLOW

Ph.D. Fantu Guta
RESEARCH FELLOW

Ph.D. Adane Tuffa
RESEARCH FELLOW

Ph. D. Sosina Bezu
RESEARCH FELLOW

M.Sc. Rahel Deribe
JUNIOR RESEARCH FELLOW

M.Sc. Zelealem Ghebremedhin
PROJECT MANAGER

M.Sc. Tsehay Atakit
COMMUNICATION OFFICER

M.Sc. Samuel Abera
DATA MANAGER

Domestic research associates

Ph.D. Gete Zeleke
WATER AND LAND MANAGEMENT RESOURCE CENTER, ETHIOPIA

Ph.D. Fitsum Hagos
INTERNATIONAL WATER MANAGEMENT INSTITUTE, ETHIOPIA

Ph.D. Candidate, Demissie Damte
FACULTY OF BUSINESS AND ECONOMICS, TILBURG UNIVERSITY, NETHERLANDS.

Ph.D. Berhanu Gebremedhin
ILRI, ETHIOPIA

International research associates
Ph.D. Yonas Alem
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Professor Stein Holden
NORWEGIAN UNIVERSITY OF LIFE SCIENCES, NORWAY

Professor Salvatore Di Falco
LONDON SCHOOL OF ECONOMICS, UNITED KINGDOM AND UNIVERSITY OF GENEVA, SWITZERLAND

Professor Randall Bluffstone
PORTLAND STATE UNIVERSITY, USA

Ph.D. Mintewab Bezabih
UNIVERSITY OF PORTSMOUTH, UNITED KINGDOM

Ph.D. Klaus Deininger
THE WORLD BANK

Ph.D. Candidate Haileselassie Medhin
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Ph.D. Hailemariam Teklewold
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Professor Fredrik Carlsson
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Professor Erwin Hendricus Bulte
TILBURG UNIVERSITY, THE NETHERLANDS

Professor Jesper Stage
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG AND MID-SWEDEN UNIVERSITY

PhD. Menale Kassie
CONSULTATIVE GROUP ON INTERNATIONAL AGRICULTURAL RESEARCH (CGIAR), KENYA

Professor Peter Martinsson
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Associate Professor Gunnar Kohlin
DEPARTMENT OF ECONOMICS, UNIVERSITY OF GOTHENBURG

Ph.D. Dambala Gelo
UNIVERSITY OF PRETORIA, SOUTH AFRICA

More details about each person are available on the EfD website, in the section about the Ethiopia center. www.efdinitiative.org/centers/ethiopia/people



EfD Ethiopia/EEPFE Staff from left Zenebe Gebreegziabher, Samuel Abera, Rahel Deribe, Abebe Damte, Alemu Mekonnen, Tadele Ferede, Fantu Guta, Tsehay Atakit, and Zelealem Gebremedhin

NETWORKS

To achieve its goal, EEPFE is working with different governmental and non-governmental organizations, including the Ministry of Agriculture (MOA), Environmental Protection Authority (EPA), Ministry of Water and Energy (MWE), African Climate Policy Center (ACPC), Forum for Environment (FfE), Climate Change Forum for Ethiopia, Sustainable Land Use Forum (SLUF), and the International Food Policy Research Institute (IFPRI).

CONTACT US

You are most welcome to contact EfD Ethiopia/ Environmental Economics Policy Forum for Ethiopia

Environmental Economics Policy Forum for Ethiopia (EEPFE)
Ethiopian Development Research Institute (EDRI),
Blue Building, Near National Stadium, South Wing
Office Numbers 401, 402, 408, 409, Fourth Floor
P.O. Box 2479, Addis Ababa, Ethiopia
Tel: +251-11-5506066/+251-11-5538632
Fax: +251-11-5505588

Email: eeffe@ethionet.et
www.efdinitiative.org/centers/ethiopia

DONORS AND FUNDING

Sida is the main funding agency for the EfD initiative. In 2012, additional funding was acquired for the research project on "Impact of Bio-fuel Investment on growth and poverty reduction in Ethiopia: Computable General Equilibrium Analysis" from Formas.

Number of donors		2
List of Donors	Funding by donor during 2012	
SIDA		94 %
Formas		6 %
Sida/EfD funding as share of total center budget (incl. univ. salaries)		94 %
List of donors EfD Ethiopia		



Women sun drying animal dung to be used as cooking fuel in Abjira Region, Northern Ethiopia

THE EFD INITIATIVE IN BRIEF

Our vision is green economy; sustainable economic growth founded on efficient management of ecosystems, natural resources and climate change impacts.

The Environment for Development initiative received its name from our conviction that with proper management the environment can be seen as a source of development and not as a constraint.

Our mission is to contribute to poverty alleviation and sustainable development through increased use of environmental economics' capacity in policy design and policy-making processes pertaining to management of ecosystems, natural resources and climate change impacts. We use environmental economics tools to both identify the roots to environmental problems in modern economies, and to find what social and economic mechanisms can be used to solve them.

The foundation of the EfD initiative is its members, environmental economists in a selection of countries. As research fellows and associates we

work for EfD centers hosted by well-established academic institutions in China, Costa Rica (for Central America), Ethiopia, Kenya, South Africa and Tanzania. EfD have an important partner organization in Resources for the Future (RFF), Washington DC, USA. A new partner to EfD Since 2012 is also Universidad de Concepción in Chile. Our associates are based at RFF and several universities across the world. One of them, University of Gothenburg in Sweden, hosts the EfD secretariat.

The Swedish International Development Cooperation Agency (Sida) is currently a major funder of the EfD research and capacity building program through core administrative support, a research fund, and funds to strengthen academic training and policy interaction.

EFD CENTERS AND PARTNERS

There are six EfD centers, hosted by universities or academic institutions in each respective country.

For more information on each center, please contact the Center Director/Coordinator:

EFD CENTRAL AMERICA

Research Program in Economics and Environment for Development in Central America. Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)
Dr. Francisco Alpizar, Center Director
Email: falpizar@catie.ac.cr
Phone: +506 558 2215 /2624



EFD CHINA

Environmental Economics Program
Peking University
Professor Jintao Xu, Center Director
Email: xujt@pku.edu.cn
Phone: +86 10 62767629



EFD ETHIOPIA

Environmental Economics Policy Forum for Ethiopia
Ethiopian Development Research Institute (EDRI/AAU)
Dr. Alemu Mekonnen, Center Director
Email: alemu_m2004@yahoo.com
Phone: +251 11 5523564



EFD KENYA

Environment for Development Kenya
University of Nairobi
Wilfred Nyangena, Center Director
E-mail: tony.leiman@uct.ac.za
Phone: +254-20-318262, ext. 28122



EFD SOUTH AFRICA

Environmental Economics Policy Research Unit
University of Cape Town
Anthony Leiman, Center Director
Email: tony.leiman@uct.ac.za
Phone: +27 21 650 2982



EFD TANZANIA

Environment for Development Tanzania
University of Dar es Salaam
Dr. Razack Lokina, Center Director
Email: razack_lokina@yahoo.co.uk
Phone: +255 22 2410252



EFD PARTNERS



UNIVERSITY OF GOTHENBURG
SCHOOL OF BUSINESS, ECONOMICS AND LAW

EEU, Environmental Economics Unit

EEU at University of Gothenburg, Sweden, has initiated the EfD initiative and acts as coordinator and secretariat. For more information please contact:

Associate Professor Gunnar Köhlin
Director of EfD Program, University of Gothenburg
Email: gunnar.kohlin@economics.gu.se
Phone: +46 31 786 4426

Professor Thomas Sterner

Environmental Economics Unit (EEU), University of Gothenburg
Email: thomas.sterner@economics.gu.se
Phone: +46 31 786 1377

Karin Backteman, Communications officer

Environmental Economics Unit (EEU), University of Gothenburg
Email: karin.backteman@economics.gu.se
Phone: +46 31 786 25 95



Sida

Swedish International Development Cooperation Agency, provides the funding for the EfD initiative.



RFF, Resources for the Future

RFF in Washington DC, US, is an important partner of the EfD initiative. RFF's research fellows will work closely with their counterparts and RFF's communications staff will help to disseminate the new centers' research products. For more information please contact:

Senior Fellow Allen Blackman
Resources for the Future
Email: blackman@rff.org
Phone: +202 328 5073



Universidad de Concepción

Research Nucleus on Environmental and Resource Economics

Universidad de Concepción
Professor Carlos Chávez
Email: cchavez@udec.cl
Phone: +56-41-2204503



To find out more about our work and the EFD initiative:

Please visit www.efdinitiative.org/centers/ethiopia

You are most welcome to contact us:

Environmental Economics Policy Forum for Ethiopia (EEPFE)

Ethiopian Development Research Institute (EDRI),

Blue Building, Near National Stadium, South Wing

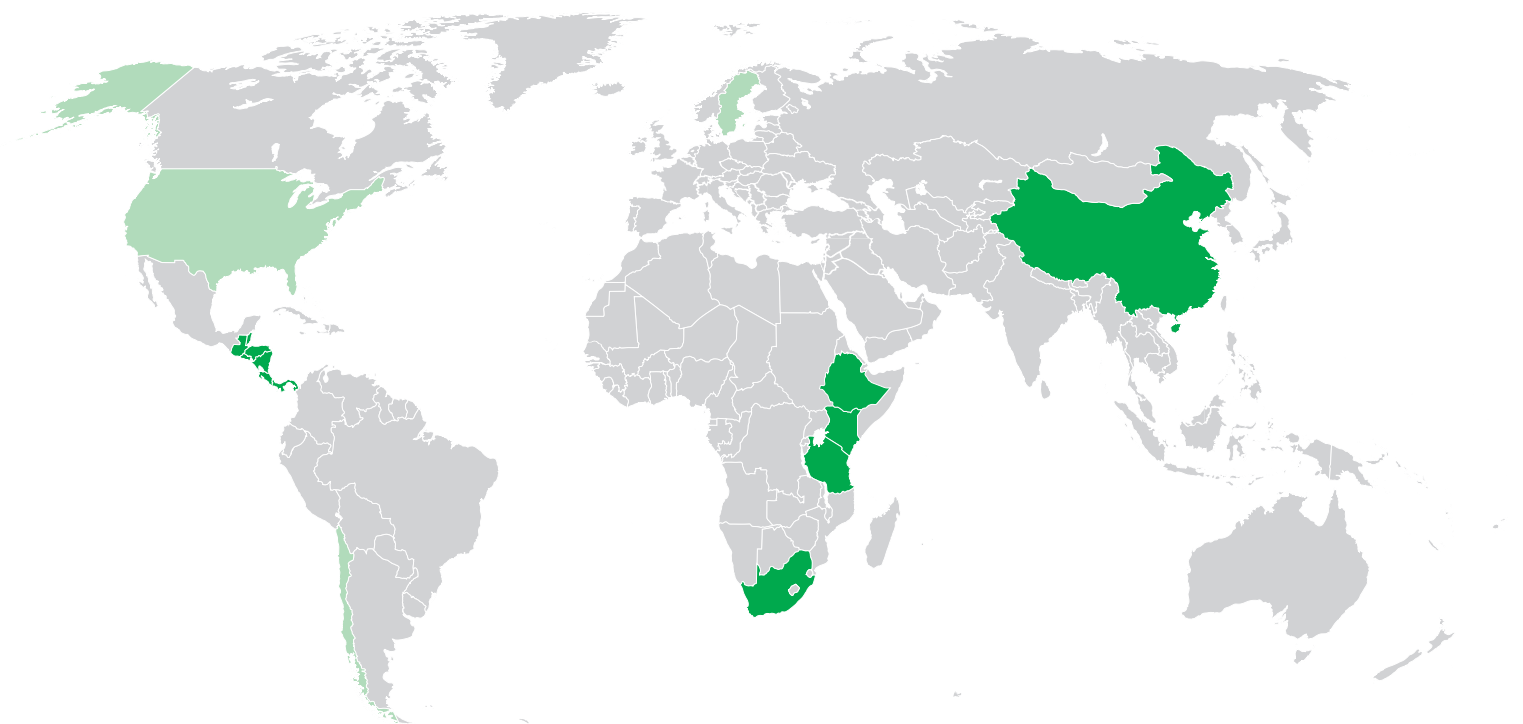
Office Numbers 401, 402, 408, 409, Fourth Floor

P.O. Box 2479, Addis Ababa, Ethiopia

Tel: +251-11-5506066/+251-11-5538632

Fax: +251-11-5505588

Email: eeffe@ethionet.et



EFD CENTERS

Central America, China, Ethiopia, Kenya, South Africa, Tanzania

PARTNERS

Sida, University of Gothenburg, RFF, Universidad de Concepción

