

EnPe Annual progress report 2015 - HwU/NMBU/Mekelle

1. Instructions

Download an overview of the questions in the EnPe Annual progress report

Here you may download an overview of the questions in the report form. This will allow you to work on the preparation of entries before starting filling in the online form. You may download the overview [in .pdf format](#) or [in .docx format](#).

Saving a report form in progress and sharing the form between partners

This report form has 16 pages. On each page, there is an option to save what has been entered in the form so far in order to continue later. This means that the form does not need to be completed in one sitting or by one individual, but may be worked on in increments and shared by several partners.

The save option is found at the very top of each page. Clicking it will allow you to enter your e-mail address to receive a unique link to the specific form you have been working on. This link may later be opened by yourself or your partner for review or further work. *You will need to forward this specific link to your partner in order to allow them to open your common progress report.*

Resource documents for the Annual progress report

In this report form, your application document to EnPe will be of high importance. Each project has been given a tailored report form, where reference to your application document and the specific project descriptions and goals you entered there is made throughout.

For easy consultation, your [EnPe application document](#) may be downloaded here.

You may also [download your budget file](#), which was sent in with your application, and which your financial report should be based on.

Furthermore, you may [download your implementation plan](#).

In addition, other EnPe templates, guidelines and background documents may be found and downloaded from [enpe.no](#). Among these are the EnPe guidelines.

Questions or technical issues

If you encounter any problems or technical issues filling in the report form, please contact the EnPe secretariat at enpe@adm.ntnu.no for support.

2. A. Basic project information

Project title

Research and Capacity Building in Clean and Renewable Bioenergy in Ethiopia

Short name for the project

Bioenergy-Ethiopia

Project synopsis for use on enpe.no web page

Ethiopia's annual expenditure on petroleum exceeds 1/3 of its total annual exporting products, creating vulnerable economy. Although Ethiopia has rich renewable bioenergy sources, the contribution to energy demand is minimal. It has a large underutilized labor force, arable land and suitable climate for biofuel crops and immense biogas feedstock. The economic, social and ecological sustainability of renewable bioenergy production and utilization systems are not clearly evaluated. Hence, we will study these factors to ensure sustainability of renewable bioenergy sources in Ethiopia, and develop improved systems of production and utilization.

3. B. Project partners 1/4

Partner institution in LMIC

Name

Hawassa University

Department

Plant and Horticulture Science

Head of department

Dr. Gashaw Meteke

Head of department

Hawassa University, P.O.Box 5, Hawassa, Ethiopia

Project coordinator

Dr. Meseret Tesema Terfa

Project coordinator

Hawassa University, P.O.Box 05, Hawassa, Ethiopia

Project coordinator

mesitesema@gmail.com

4. B. Project partners 2/4

Partner institution in Norway

Name

Norwegian University of Life Sciences (NMBU)

Department

Department of Plant Sciences (IPV)

Head of department

Prof. Odd Arne Rognli

Head of department

Handelshøyskolen, NMBU Chr. Magnus Falsens vei 18 1430 Ås Norway

Project coordinator

Prof. Trine (Anne Kathrine) Hvoslef-Eide

Project coordinator

Handelshøyskolen, NMBU Chr. Magnus Falsens vei 18 1430 Ås Norway

Project coordinator

trine.hvoslef-eide@nmbu.no

5. B. Project partners 3/4

Additional partner

Name

Mekelle University

Department

Department of Dryland Crop and Horticultural Sciences (DCHS)

Head of department

Addis Abreha

Head of department

P.O. Box 231, Mekelle, Ethiopia

Project coordinator

Dereje A. Aberra

Project coordinator

P.O. Box 231, Mekelle, Ethiopia

6. B. Project partners 4/4

Which partner institution is agreement partner in the project?

Institution in LMIC

What is the name of the institution which is agreement partner in the project?

Hawassa University

7. C. Current status of the project

Relevance of the project

Ethiopia has huge potential for renewable bioenergy production. There are policies and institutions which are working towards exploiting this potential to achieve its green economic development goals. However, due to lack of trained and qualified manpower and technologies, achieving these goals appeared dubious. Despite the efforts to increase the domestic renewable bioenergy production, no thorough study has been carried out on the sources of biofuel crops and optimization of such crops for biofuel production and utilization; and their socioeconomic and environmental feasibility and sustainability. Achieving these goals is the main purpose of this project through collaboration between different institutions.

Current synergy with other activities/projects

This project will be synergized with other projects in the universities and institutions so as to improve the livelihood of the rural poor. The Universities have several cooperations with the Norwegian aided projects. The Sweet potato-Enset project and Climate Smart Agriculture project under the NORHED program are the main projects we are working closely with. Additionally, NORAD project has been successful in the last three project phases at both universities. We are collaborating with the project and be able to share resources, strategies and expertise. Partnerships established with other institutions like: Research institutes, government energy bureaus and private investors.

Changes in results framework**8. D. Current status of the results framework**

PROJECT VISION/DEVELOPMENT IMPACT ON SOCIETY

The project will bring sustainable economic, social and environmental development in Ethiopia through developing scientific production and utilization of bioenergy system; and based on locally available clean and renewable bioenergy sources; reduced greenhouse gas emission and integration of bio-slurries as bio fertilizers for fostering bio-farming systems.

PROJECT GOAL/OVERALL PURPOSE OF THE PROJECT

To contribute towards sustainable use of clean and renewable energy in Ethiopia, and build the research and teaching capacity of partner institutions in clean and renewable bioenergy production and utilization.

The teaching, research and outreach capacity of participating institutions will be improved (40 MSc and 6 PhD graduates, each with at least 30% of the graduates being female; 24 exchange visits; four short term trainings on research methods and equipment maintenance for 40 technical staff and on procurement and auditing systems, and purchasing for 20 participants from academic and administration departments).

Graduate program in bioenergy will be launched and strengthened at HwU.

Awareness about the use of renewable bioenergy (its contribution to energy security, agricultural development, human and environmental health) at the household and national levels will be created.

Bioenergy research and training center will be established at HwU.

Agro-ecologically compatible and socio-economically profitable systems for bioenergy production and utilization will be developed.

Promising biogas and biofuel production and utilization systems will be identified and disseminated.

Policy implications will be drawn, and policy briefs will be presented to decision makers.

Gender equity in farming, teaching, research and education will be promoted.

Packages of bioenergy will be prepared, piloted and scaled up.

At least 20 scientific papers, and 10 manuals and field guides will be published.

PROJECT OUTCOMES

Outcomes	Formulation of outcome	Indicator(s)	Target(s) in final year
Outcome 1	<p>1. Education</p> <p>Outcome 1.1 Master's program launched at HwU</p> <p>Outcome 1.2. Increased academic capacity to deliver high quality education at HwU and MU Universities</p> <p>Outcome 1.3 Increased and better qualified and competent graduates relevant to Ethiopian demand in bioenergy sector</p>	<p>Number of enrolled and graduated students (disaggregated by Master/PhD; Male/Female) - 1 master program launched at HwU - 6 PhD (at least 30% female) graduated academic staff - 40 MSc (at least 30% females) graduates</p>	<p>- One at HwU</p> <p>- HwU (30 MSc , 5 PhD), MU (10 MSc, 1 PhD)</p> <p>- Staff with higher degrees -HwU (10 MSc, 5 PhD) -MU (5 MSc, 1 PhD)</p>

<p>Outcome 2</p>	<p>2. Research</p> <p>Outcome 2.1 Increased capacity to deliver relevant and high quality research</p> <p>Outcome 2.2 Increased and standard research relevant to Ethiopian demand in energy sector</p> <p>Outcome 2.3 Increased and improved regional/international collaboration in PhD and post doc research</p> <p>Outcome 2.4 Developed policy briefs</p> <p>Outcome 2.5 Adopted/adapted new bioenergy technologies by local communities and other stakeholders</p>	<p>Number of scientific publications (disaggregated by peer-reviewed and other publications; gender of author) - 20 Scientific Publications: 15 from HwU and 5 from MU in peer reviewed journals - at least 30% of these peer reviewed papers will have at least one female co-author</p> <p>Number of other forms of dissemination activities - 10 technology packages and manuals (7 at HwU and 3 at MU) - at least 30% of these publications will be produced by female authors - 70 farmers (50 from Hawassa & 20 from Mekelle) participated in research and served as means of knowledge dissemination. - a bioenergy website launched</p> <p>Uptake/influence of research in public policies (narrative) - A drawn policy implications and policy briefs presented to different levels of stakeholders</p> <p>Uptake of research findings/new technologies/innovations/solutions by local communities, civil society and/or private sector (narrative) - Promising bioenergy technologies adopted and/ or adapted by stakeholders</p>	<ul style="list-style-type: none"> - Peer reviewed papers HwU (15), MU (5) - 10 Manuals & guides prepared (7 by HwU & 3 by MU) - Websites launched at HwU - 90% (HwU & MU)
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<p>Outcome 3</p>	<p>3. Institutional development 3.1 Increased infrastructure facilities and systems 3.2 Improved institutional policies in place to ensure gender balance and anti-discrimination, and retention of staff 3.3 Administrative and financial systems up to date and adequate</p>	<p>Laboratory and field equipment, vehicle, books, journals - Purchased laboratory and field equipment, chemicals (HwU and MU) and vehicles (2 for HwU) - purchased relevant books and journals for the libraries and ICT facilities at HwU and MU. Number of training, exchange, research opportunities - gender-based policy training opportunities delivered and awareness created at HwU and MU - short term trainings, staff exchanges, research opportunities given to ensure staff retention at HwU and MU Number of short term training and stakeholders satisfaction - Three short training on modern/up to date administrative and financial systems offered to administrative staff (at least 30% female) - About 90% of staff and students involved in the project very much satisfied with administrative and financial systems updated</p>	<p>- Lab, field, library, greenhouse, and ICT facilities, and 2 vehicles procured - Four trainings for administrative, financial and technical staff</p>
<p>Outcome 4</p>	<p>4. Gender equity 4.1 Enhanced gender equity, reduced work burden and improved health of women and children</p>	<p>Number of gender-based training opportunities and access to bioenergy technology - at least 30% of rural female in the project areas given opportunity of participating in bioenergy practices and extension - female involved in capacity building reached at least 30% .</p>	<p>- At least 30% of households involved in research, extension and capacity building would be female headed (HU and MU), and 30% of staff involved in research and capacity building will be female.</p>

STATUS OF PROJECT OUTPUTS

The outputs of the project describe the concrete results of the activities of the project. The outputs are the single components that contribute towards the outcomes of the project (see above).

The outputs described in your EnPe application have been imported into this table. Please give a short status update on each of these. The status of the indicators should where possible be quantified.

Project outputs/expected results, services or products

	Report on status of output
Output 1 : Master's program launched	Scientific committee for curriculum development has been established.
Output 2: Enrolled and graduated students	4 PhD students have been recruited from which 50% is female. 2 of them has gotten admission from NMBU so far and the other 2 students are processing their application
Output 3: Staff with strengthened qualification in bioenergy	4 staff members are selected to pursue their PhD in Bioenergy
Output 4: Published scientific articles	not yet. Planned to be achieved at ending years of the project
Output 5: Prepared manuals & guides	not yet. Planned to be achieved at ending years of the project
Output 6: Launched Bioenergy website	planned to be achieved in 2016
Output 7: Increased infrastructure facilities and systems	planned to be achieved in 2016/17
Output 8: Improved institutional policies to ensure gender balance	while recruiting PhD students and in master students enrolment we set criteria to ensure the involvement of female staffs. e.g. 10% additional points were given to female staffs while scoring.
Output 9: Administrative and financial systems up to date and adequate	4 administration and finance staffs (out of which 50 % are female) of Hawassa University were trained in project management (which they will use as a tool to plan, analyse, implement and evaluate the universities financial and management activities)
Output 10: Increased gender equity, reduced work burden and improved health of women and children	We have achieved gender equality in PhD recruitment and administration and finance staff training (50 % female involvement)

STATUS OF PROJECT ACTIVITIES/IMPLEMENTATION PLAN

The project activities are the practical steps that are taken in order to produce the planned outputs (see above) and constitutes an implementation plan for the project.

The activities described in your EnPe application have been imported into this table. Please give a short status update on each of these. The status of the activities should be as specific as possible.

Activities part 1

	Report on status of activity
New MSc curriculum development (HwU)	Scientific committee for curriculum development has been established.
Launching of MSc program in bioenergy (HwU)	Scientific committee for curriculum development has been established and planned to start on the work from April 2016
Students recruitment and training (HwU, MU)	3 master students have been given research grants so far
Granting scholarships to female students (HwU, MU)	Announcements have been posted for master female students to apply for scholarship and following on the progress
Small grants to female students (HwU, MU)	
MSc graduation (HwU)	graduation will be expected in two years
Recruitment of PhD candidates (HwU, MU)	4 PhD candidates have been recruited out of which 50% is female
PhD training (HwU, MU, NMBU)	The PhD candidates been trained in Project management which will help them to plan, manage, implement and report their sub-project in the main project.
PhD graduation (NMBU)	Graduation will be expected in four years

Activities part 2

	Report on status of activity
Project development and implementation (HwU, MU, NMBU)	five sub-projects (SPs) (by 5 PhDs and 1 research fellow) have been developed with in the main project as a part of project management course (each sub-project has its own project manager, project team and supervisory team with in the main project: this organization will help to easily follow up the progress and challenges). Following are description of the sub projects: SP1: Eco-physiological and Morphological Responses of <i>Jatropha curcas</i> L. accessions to major agroclimatic Zones of Ethiopia: By PhD-1; project manager: Shitaye D. Gebrewold SP2: Genetic diversity, Agronomic and biochemical characterization of Castor bean for potential biofuel production. By PhD-2; Project manager: Lemlem S. Mekonnen SP3: Extraction of biofuel (seed oil) from <i>Jatropha curcas</i> L. from different agro-climatic zones of Ethiopia: the study of quantity and quality of biodiesel, and economic feasibility and implication for sustainable cultivation, production. By PhD-3; Project manager: Yadessa Gonfa Keneni SP4: Identification of efficient and affordable technologies for sustainable production of biodiesel from different bio-energy sources: By PhD-4; Project manager: Shimelis N. Gebremariam SP5: Bioenergy production and utilization in rural Ethiopia: an analysis of contextual importance, policy persepectives, risks and opportuntites, sustainability, and impacts on rural livelihood. By Research Fellow; Project manager: Getachew Sime SP6: Advanced use of Accounting system for clean and renewable Bioenergy project. By Finance and Administration team; Project manager: Tsedalech Ashenafi
Socio-economic and biophysical surveys (baseline survey) (HwU, MU, NMBU)	These surveys are already planned by sub-project (SP5) and the activities will be started in April/May 2016
Site selection and selection of farmers (HwU and MU)	Activities has been planned and the selection will start in April, 2016
Socio-economic and biophysical characterization; - categorization of vulnerabilities to climate change and energy insecurity (HwU and MU)	This activity has also been planned as part of SP5 and will be started in April/May, 2016
Participation problem	

Participatory problem identification and priority setting with emphasis on gender issues and the situation of vulnerable groups; inventory of best practices (HwU and MU)	This activity has also been planned as part of SP5 and will be started in April/May, 2016
Determination of the most common sources of domestic bioenergy, scopes of production and utilization, local socioeconomic and environmental impacts and sustainability/constraints	This activity has also been planned as part of SP5 and will be started in April/May, 2016
Investigating the effects of agroecology on growth, development and quality and quantity (yield) of biofuel crops	SP1 and SP2 are responsible for these activities. These sub-projects have developed their plans and will start their activities in April/may 2016. Some of these activities has already been under way by SP2.
Investigating the qualities, quantities, and economic benefits of biodiesels from different biofuel crops	SP3 is responsible for these activities. The activity has been developed well by this sub-project and the work is planned to be started in April/May
Determination of the qualities, quantities and economic viability of biogas produced from different feedstock	These activity will be carried out by Master students as part of their master research
GHG emission from farms (HwU and MU)	This activity has also been planned as part of SP5 and will be started in April/May, 2016
Monitoring of GHG at household level	This activity has also been planned as part of SP5 and will be started in April/May, 2016
Conducting research on bioenergy technologies that reduce GHG	SP4 is responsible for these activities. The activity has been developed well by this sub-project and the work is planned to be started in April/May

Activities part 3

	Report on status of activity
Bioenergy packages development and technology transfer - preparing biofuel and biogas policy briefs (HwU and MU)	Technology villages (site and farmers selections) in relation to bioenergy will be started in April/May, 2016. Then the technology transfer is planned to be started after the first phases of all sub-projects are achieved (in 2 -3 years)
Establishing bioenergy research center (HwU)	Scientific committee for curriculum development has been established. Therefore, the bioenergy center will be established after curriculum for master program is developed
Integrating bioenergy, soil fertility, crop production, environmental and human health management (HwU and MU)	A master research is already funded to assess the impacts of integrating bioenergy crops production on crop production, land use system and environment.
Adaptation trials on biofuel crop varieties and species (HwU and MU)	Ethiopian Agricultural research institute is already working on adaptation trials to screen different varieties of biofuel crops. Hence, to achieve this specific activity this project has already established collaboration with the institute (through signing memorandum of understanding), so that we share experiences and work together.
Up scaling of the best bioenergy technologies in farmers' fields - selecting and establishing bioenergy village and model farms (HwU and MU)	Technology villages (site and farmers selections) in relation to bioenergy will be started in April/May, 2016. The upscaling of the best technology will be done when the first result is obtained. (this will be done by SP3 and SP4)
Piloting and demonstrating bioenergy packages on farmers' fields (HwU and MU)	Technology villages (site and farmers selections) in relation to bioenergy will be started in April/May, 2016. Piloting and demonstrating bioenergy packages will be done when the first result is obtained. (this will be done by SP3 and SP4)
Publishing journal articles, manuals and guides (HwU, MU)	This will be achieved after the planned sub-projects (as PhD sub-projects, research fellow sub-projects and master research sub-projects) are implemented and results are obtained.
Preparing workshops & arranging field visits (HwU, MU)	workshops are planned to be prepared in year 2016. Field visits to bioenergy research institute was undertaken with all parties involved in the project.

Activities part 4

	Report on status of activity
Exchange visits NMBU to Ethiopia - Selection of candidates, Visits i.e. guest lecturing, joint students supervision, workshop and curriculum review (same as above)	5 NMBU staffs has already visited Ethiopia in November as part of project management course to plan the sub-projects , for selection of candidates and guest lecturing.
Exchange visits Ethiopia to NMBU -Selecting candidates, Visits i.e. joint research and students supervision, literature review, joint publication (same as above)	not done yet but planned to be done in 2016 onwards.
Offering short/tailor made trainings (HwU, MU) - Selecting candidates - Training - Graduation	18 staffs (35 % female) (from HU,MU, NMBU) has participated in Project management course delivered by Continued education course SEVU at NMBU. The participants after passing the examination will get 15 credit hours certification from NMBU.
Strengthening infrastructure on bioenergy research (HwU, MU) - Listing equipment and bid preparation and bidding - Procurement - Establishing bioenergy networking at HwU - Developing website - Launching and managing the website	Has not been done yet but planned to be in 2016/17

Activities part 5

	Report on status of activity
Providing work burden reducing and health improving bioenergy technologies (particularly of women and children)	The research outputs mainly targeted the rural female therefore, the sub-projects are planned to address this issue as a priority
Providing gender-based training opportunities	Plans haven made to accomplish starting from year 2016 on wards
Prioritizing rural female in given opportunity to participate in bioenergy practices and extension	all sub-projects has planned to give priorities to female farmers when selecting sites and farmers for technology transfer and extension packages
Building females capability in bioenergy research and education	- 2 female staffs (50 %) from HU and MU has been recruited to train in PhD - 2 female finance and administration staffs has been given training in project management in relation to bioenergy

RISK FACTORS

In this section, the status of risks should be given on all levels, from outcomes down to activities. Please consult your application to see which risks you have identified for each of these levels.

Risk factors and mitigation

Risk Factors:

- Delayed budget disbursement for start up meeting and project management course training

Additional Risks:

- lack of Vehicle for transportation of researchers to remote areas
- underestimation of budget in comparison to the real amount required to undertake certain activities (e.g. researches)
- currency fluctuation (we lost up to 30% of the budget)

Mitigation:

- The project borrowed money from HU and MU budgets and reimbursed back
- We are coordinating with other NORHED projects to get vehicle.
- * we pay for the fuel cost and drivers perdiem
- we are collaborating with different institutions and projects to minimize cost and trying to efficiently utilize the budget we have
- There is nothing we can do about the currency fluctuation

9. E. Current status of student intake

Intake of master students in the programme

Intake of master students in the programme in 2015

0

How many of the master students were female?

0

Month of intake of master students

n/a

Intake of PhD students in the programme

Intake of PhD students in the programme in 2015

4

How many of the PhD students were female?

2

Month of intake of PhD students

November

Intake of other students

Number of other students taken in with financing from other sources

0

Who is the sponsor of the other students?

there are no students so far with financing from other sources

Other questions

Comments to student intake

For PhD students intake, there was an open official announcement/ call for the positions at the Universities. seven applications were received by the deadline. The PhD candidates were selected by the selection criteria set on the call by project members and the Universities.

11. E. Information on PhD students involved in programme

This page will be shown 4 times to allow you to enter information on each of the PhD students involved in the programme. Page number 1 of 4 is now being shown.

PhD student 1

Name : Shitaye D. Gebrewold

Gender : Female

Nationality : Ethiopian

Home institution : Hawassa University

Connection to home institution : Instructor at Department of Plant and Horticultural Sciences

Enrolled : 2016

Expected graduation : 2019

Awarding institution : NMBU

Comments : SP1: Eco-physiological and morphological responses of *Jatropha curcas* L. accessions to major agro-climatic zones of Ethiopia: Plant physiology and genetic studies.

11. E. Information on PhD students involved in programme

This page will be shown 4 times to allow you to enter information on each of the PhD students involved in the programme. Page number 2 of 4 is now being shown.

PhD student 2

Name : Lemlem S. Mekonnen

Gender : Female

Nationality : Ethiopian

Home institution : Mekelle University

Connection to home institution : Instructor at Institute of Environment, Gender and Development Studies

Enrolled : 2016

Expected graduation : 2019

Awarding institution : NMBU

Comments : SP2: Genetic diversity, Agronomic and biochemical characterization of Castor bean for potential biofuel production.

11. E. Information on PhD students involved in programme

This page will be shown 4 times to allow you to enter information on each of the PhD students involved in the programme. Page number 3 of 4 is now being shown.

PhD student 3

Name : Yadessa G. Keneni

Gender : Male

Nationality : Ethiopian

Home institution : Hawassa University

Connection to home institution : Instructor at Department of Biology

Enrolled : 2016

Expected graduation : 2019

Awarding institution : NMBU

Comments : SP3: Extraction of biofuel (seed oil) from *Jatropha curcas* L. from different agro-climatic zones of Ethiopia: the study of quantity and quality of biodiesel, and economic feasibility and implication for sustainable cultivation, production

11. E. Information on PhD students involved in programme

This page will be shown 4 times to allow you to enter information on each of the PhD students involved in the programme. Page number 4 of 4 is now being shown.

PhD student 4

Name : Shimelis N. Gebremariam

Gender : Male

Nationality : Ethiopian

Home institution : Hawassa University

Connection to home institution : Lecturer at Wondo Genet College of Forestry and Natural Resources.

Enrolled : 2016

Expected graduation : 2019

Awarding institution : NMBU

Comments : SP4: Identification of efficient and affordable technologies for sustainable production of biodiesel from different bio-energy source

12. F. Status of cross-cutting issues

Assessment of risk of corruption

- The universities have regular internal and external auditing in accordance with national laws
- The universities have Ethics and Anti-corruption Offices that ensure transparency and accountability in financial and asset management, which reports to the Federal Ethics and Anti-corruption Agency, and annual evaluation by members of parliaments
- Transparency between agreement partners
- 4 Finance administering bodies were trained on how to manage project finances and the finance system will be computerized at Hawassa University.
-

Assessment of gender issues in the project implementation

- This project provide financial supports to female students through:
- Scholarships and research funds
- 50% participants in the research and extension components of the project will be female and female headed households. By giving priority to female farmers
- At least 30% of participants of trainings be female (We have achieved 50 % in PhD and Finance personnel trainings).
- HU has scheme to improve involvement of females to different levels of training . This will serve as a model to promote gender equity in the current project.
- The Gender mainstreaming budget is allocated to support women

Assessment of environmental and climate sustainability

The project aims to adapt to and mitigate the effects of climate change through promotion of environmentally friendly bioenergy practices. The project seeks to establish integrated farming units that optimize the utilization and conservation of the ecosystem. Therefore, the project activities are not suspected to cause any harm to the environment rather it will reduce CO2 emission to the environment. However, large-scale biofuel production may compete with food crop cultivation, accumulation of large amount of by-products of biofuel crops may harm the environment. Therefore, proper land-uses for crop cultivations, and changing the byproducts to useable materials will reduce the risk.

Assessment of human rights issues

All communities and individuals will be equally treated regardless of their political and economic power, differences in sex, culture, religion, ethnicity, etc. The assessment of traditional energy utilization and opportunities to develop bioenergy sources will address the settlements of remote areas, small and margined ethnic groups, and the indigenous people of remote rural areas. Disabled students and staffs will be given priority in education, capacity building and research. In addition it encourages female headed households to take part in project initiation, implementation, monitoring and evaluation. The project activity will not affect the potential interests of these groups by any means

13. G. Financial report

The annual progress report must include the financial report. This should be done in a spreadsheet with a set-up corresponding to the budget file of the project. This should include individual reporting from each institution in the project as well as an aggregated financial report.

The aggregated financial report should be signed by all partners at department head level. Scan and upload the signed report as an attachment to the progress report.

Please upload the financial report for the project here.

[Financial report Hawassa+Mekelle+NMBU.compressed.pdf](#)

Comments to the financial report

	Comments
Education Salaries Scholarships Publication & dissemination Travel expenses Gender mainstreaming	no comment
Research and PhD Salaries Fellowships Publication & dissemination Research expenses Travel expenses Gender mainstreaming	- 25000 NOK was not spent by from NMBU/IMT since there was no travel in 2015.
Institutional development Salaries techn. & adm. staff Travel expenses techn. & adm. staff Courses Consultancies ICT Scientific equipment Infrastructure Gender	no comment
Project management Salary compensation Costs annual meeting Annual external audit Consultancy	no comment
Other collaborative activities	no comment
Administrative support	no comment

14. Date and confirmation

LMIC partner

Place and date : Hawassa, 18.03.2016

Name : Meseret Tesema, Terfa

Title : PhD

LMIC partner signature



Signature of: Meseret T. Terfa

Norwegian partner

Place and date : Ås, March 18th 2016

Name : Trine Hvoslef-Eide

Title : Professor PhD

Norwegian partner signature



Signature of: Trine Hvoslef-Eide

Additional partner

Place and date : Mekelle, 18.03.2016

Name : Dereje Assefa, Aberra

Title : PhD

Additional partner signature



Signature of: Dereje A. Aberra

15. Other uploads

Additional uploads

16. Review and download

When you click "Submit", the report will be finalized and sent to the EnPe secretariat. For your own reference, please make sure that you have downloaded and saved the pdf with your report before submitting.

17. Application form completed

Your report to EnPe has been completed.

If there should arise a need to make important changes in the report before the deadline, please contact the EnPe Secretariat at enpe@adm.ntnu.no, and possibilities for editing will be provided for you.