

Norwegian University of Life Sciences

Gender mainstreaming in NORHED II projects

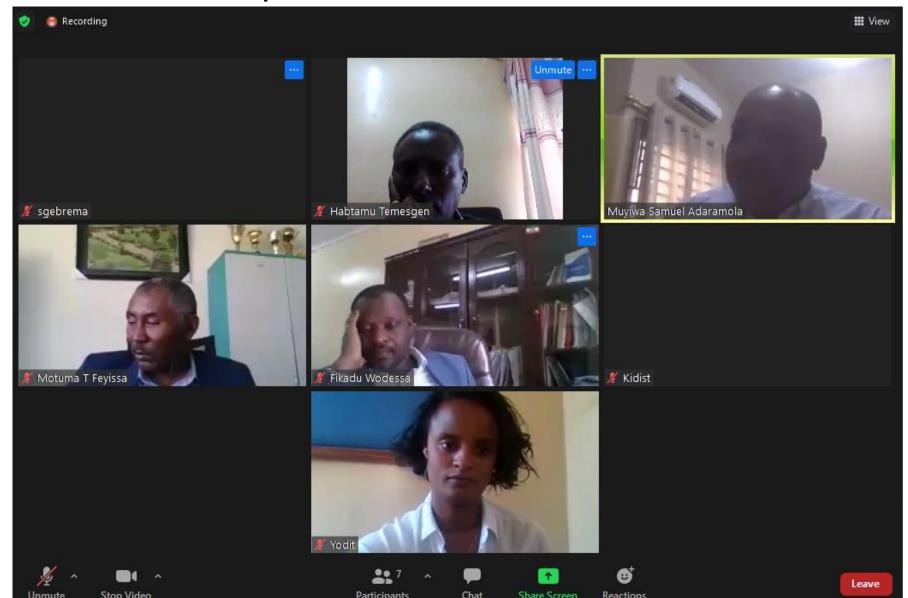
"Capacity Building in Renewable Energy Research and Education in Ethiopia (ReREd)"

30th-31st Aug. 2022, Laico Lake Victoria Hotel, Uganda

By: Habtamu Temesgen, PhD (Project coordinator)

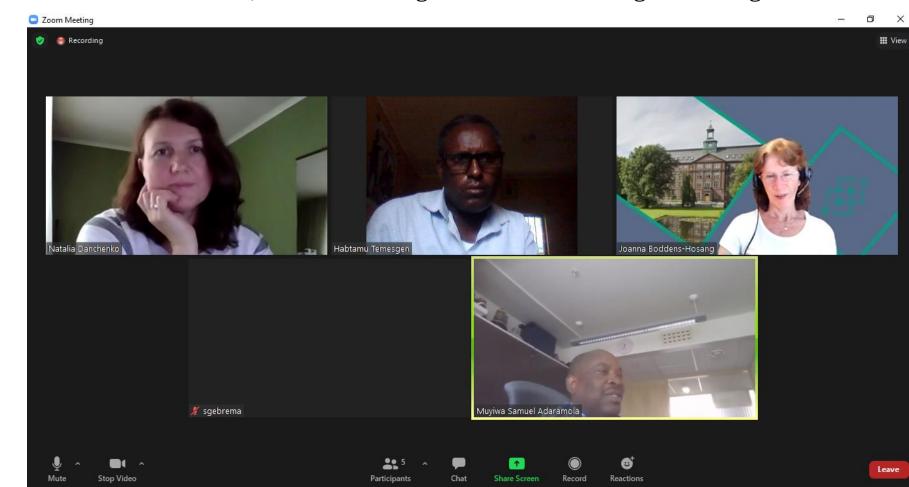
August 30-31, 2022; Entebbe, Uganda

Initial meeting – among North (ммви)-South partners (DU & WCFNR)



Meeting on getting project agreement signed, July 02/2021

 Meeting participants: Prof. Muyiwa Samuel Adaramola-from NMBU (Norwegian University of Life Science), Joanna Boddens-Hosang- from NMBU Research department: international research collaboration coordination and Natalia Danchenko, Dr Shimelis Nigatu form HU-wondogenet College



Curriculum development Progress – on progress

The processes:

- Curriculum concept note was developed and submitted to Academic Programs Office (APO)
- The office presented for *Academic Standards and Curriculum Committee (ASCC)* (The Senate standing committee Article 23)
- The committee recommendations;
 - Maintenance of the meltidciplinarity of the curriculum
 - Decided on the team professional mix



Curriculum development process...

Developing Curriculum in Master of Science In

Renewable Energy Utilization and Management

From Dilla University

- Habtamu Temesgen (PhD in Natural Resources Management) ... Chair
- 2. Tesfaye T/Silasie (Head, Natural Resources Management)... Secretary
- 3. Dr Amare Aregahegn (PhD, Chemistry)
- 4. Mehari Shigute (PhD Fellow Water Resource Engineering)
- Olata Kalano (MSc, Electrical Engineer)

From Partner Universities

- 1. Dr Shimelis Nigatu (PhD In Renewable Energy from WGCF)
- Sam Adaramola, (Professor in Renewable Energy from NMBU, Norway)

Curriculum development process...

- The team conducted
- Desk review
- Questionnaire, Contact Stockholders & Gap Assessment
- # Field assessment (completed)
- # Analysis (completed)
- # Producing draft curriculum (completed)
- # Review and Validation processes (on going)
- # Final approval (scheduled for end of August 2022)

Progress evaluation

Planned every two weeks (in most cases)

• Urgent or/and occasional schedules have also been

followed









ANNUAL PROGRESS REPORT NORHED II

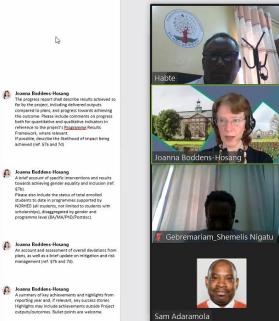
2021

NORHED II reporting requirements are outlined in the Partnership contract/Grant Agreement, 57, 8 and 9. This document outlines the structure of the annual progress reporting with quidelines in the comments. Please refer to the Partnership contract/Grant Agreement for details on reporting requirements for each subtopic.

Project title:

Reporting period:

- 1. Project goal/overall purpose
- 2. Results and overarching issues in reporting year







Gender Mainstreaming (GM) Activities & plans

As part of GM, the following short and long-term plans & activities for two women groups;

Group-I: Rural women

- Aims to:
 - improved awareness of rural women
 - provide technical services by skill-based training of technical staff
 - discussion on existing challenges of using alternative energy materials

Gender-based training & workshop on Energy Saving Technologies



November, 2021

Training and discussion forum participants;

- # The training was held at Wonago District, youth center hall and organized in collaboration with Zonal & district (wonago) water & energy offices;
- Participants were mainly from Wonago district and other three districts (Dilla zuria District,
 Yirgacheffe District, and Kochere district) & a separate session was also held for Abaya District of West Guji zone (Oromia Regional State);

Why the intervention area, Wonago district?

- High population density Gedeo zone is distinguished by two crucial features:
 - (1) by its highest population density in Ethiopia, particularly in Wenago District, and
 - (2) by the marvels of natural resource management practice;
 traditional agroforestry systems; of its farmers.
- Of course, farmers practice such land use, not for aesthetic or scientific purposes, but it is their livelihood *CSA* (2013). Population projection of Ethiopia for all Regions at Wereda level from 2014 2017.

Aims of the training and workshop

- improved awareness of using energy-saving cooking stoves among four district women with main focus on Wonago and Abaya districts;
- to provide skill-based training using technical staff from University, zonal and district water and energy sector experts, and women from women energy association;
- discussion on existing challenges regarding cooking stoves production and distribution monitoring and supports from the sector;



Practical exercise



Lessons learned

- Most women raised that, where the government is handicapped in reaching renewable energy sources like hydropower, women have been shouldering the energy production and supply for more than 83% of Ethiopian people at the expense of their health and life; as well as the climate resilience
- Reach and fertile experience were learned from the participant women;
- Women engaged in 'enjera' cooking and trade have immense experience of energy saving;
 - "After I got training before two years by Dilla University community service program, I tested the energy efficiency of stove technologies and I can cook only 70 sheets of enjera using 100 Birr fuel wood. However, I can cook about 150 sheets of enjera with only 50ETB fuel wood. Besides, the use of energy-saving stoves reserves the moisture content (the spongy texture) of the enjera if we left it on the griddle for extended time due to busy jobs and it never gets spoiled or dried unlike traditional cooking approaches."
- Traditional Ethiopian food is famous for hot spicy food served on top of soft pancake-like bread called injera, which is a form of Ethiopian bread.

Challenges

- The final discussion forum revealed that the sector has been in its infant stage in terms of research, community service, and technology transfer interventions.
- Dilla University, the local government and stakeholders have had immense intervention assignments of so as to save the "TREES" — the lives of the society.
- Energy-based technology transfer interventions were rarely observed and untouched unlike the demand to save TREES, mothers life and the environment;

.....Challenges

- No access to awareness creation schemes that extend and reach the rural women, hence poor adoption level of energy-saving stoves;
- Very few biogas plants and solar devised were established in few households, but due to <u>lack of</u> <u>technicians</u> all stopped for long with simple maintenance problems;
- The sector from local government provide occasional pieces of training and established women association for energy-saving stoves production, but no follow-up and support;

Group-II: University Academic & Research staff

- **Aims to:**
 - Provide research-based capacity building
 - Improve their skill of partnering and project hunting abilities



Training & Workshop on Empowering Female Researchers

"As part of Gender Mainstreaming in Research"

Trainers



Muyiwa Samuel Adaramola

PhD; Prof. at Norwegian University of Life Sciences (NMBU)

Induction and Experience Sharing on Enhancing Gender Equality in Innovation and Research; an Int. Experience



Meseret Tessema,

PhD Plant Physiologiest, Hawassa University

Training on Fundable Research Project Proposal Development



Amare Aregahegn,

PhD; Associate Prof. of Chemistry at Dilla University

Training on Manuscript Writing For Publication, Journal Selection and Referee Handling



Haile Ketema,

Assistant Prof. of Land Resources Management at Dilla University

Reference Management System

April 08-09/2022 Dilla University - Main Campus; MPHall Dilla, Ethiopia

www.du.edu.et/rdo@du.edu.et

Organized by:

- Research & Technology Transfer V/President; Research & Dissemination Directorate (DU)
- Women, Youth and Children Affairs Directorate (DU)
- Norwegian University of life science (NORHED II_Energy project partner)



Selected mentors & mentees

	RMC (Center)	Selected candidate	No. of mentees assigned
1	Agriculture and	Dr. Yenenesh	7
	Computational Science	Ayelew	
2	Engineering and technology	Eden Ashenafi	10
3	Medicine and Heath Sciences	Derartu Name	7
4	Business-Economics and IEBS	Yodit Abebe	6
5	Social Sciences and Law	Dr. Misrak Tenna	10
	Total	5	40

Five Research Mentoring Centers (RMCs) established



Conference participations under the invitation & facilitation of NORHED

The 4th SDG Conference Bergen (10-12 Feb. 2021);
 conference subject –

"The SDGs after the crisis": The post-pandemic challenges the 2030 Agenda faces

The 5th SDG Conference - organized by University of Bergen (9-11 Feb. 2022) entitled:

"Ways of knowing, modes of living": Dialogues across a fragmented Earth for the 2030 Agenda



FEB 10, 2021 AT 11 AM - FEB 12, 2021 AT 3 PM UTC+03

SDG Conference Bergen 2021

Universitetsaulaen i Bergen



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DAY ZERO

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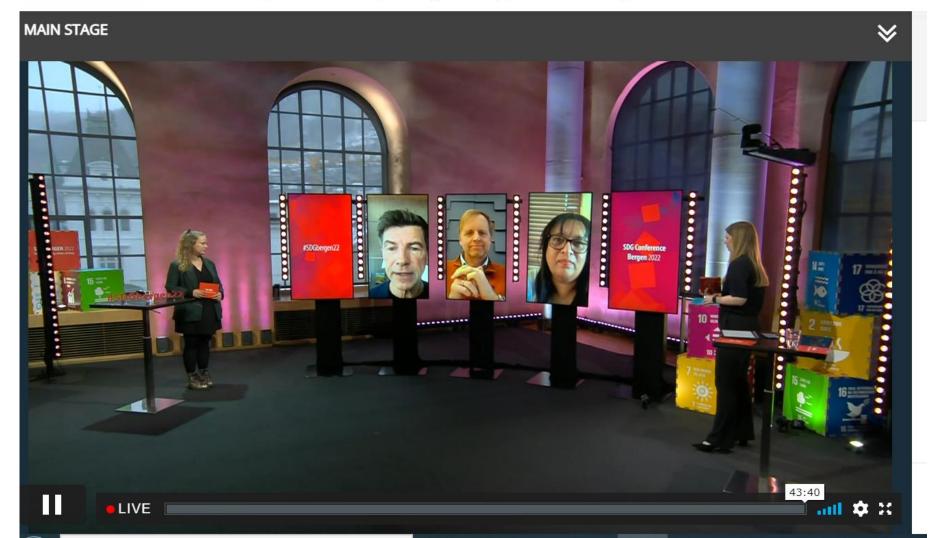
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SDG Conference Bergen # We love your questions! Last session to post them in the chat!

Like

Sent 13:36

Sent 13:36

Dorothy Dankel, Interview with Cristina Dorador: Chilean

Constitution writing

@HabtamuTemesgen it means you can log in here, use the chat and view all the videos in the Library for the next month at your convenience

Reply • Like Sent 13:37

Habtamu Temesgen, Dilla University

Oh! that is great, thank you for the information

Sent 13:38

Reiner Schmidt, BenE Muenchen e.V.

@HabtamuTemesgen My interpretation is: Participants can access for 1 month ... see as well Dorothy Dankel

Reply • Like

Sent 13:38

Write a message...

Existing status

• 2021 activities;

- Post graduate student selection and registrations completed (though has still challenges);
- Curriculum development about to complete and will assign reviewers;
- Training and workshops for 2021(mainly as gender mainstreaming & to create knowledge forum on energy efficiency) successful done and next intervention areas identified for prompt action;
- External audit recruitment and handling & supporting all the processes
- Periodic report preparation and submission

STUDENTSAMSKIPNADEN I ÅS AVD BOKSMIA Christian Magnus Falsens vei 9 1433 ÅS

Telefon:

64966341/64966342

Telefax: Bankgiro:

64966343 16542029092

Foretaksnr:

NO 955222261 MVA

7439 TRONDHEIM

FAKTURA

Christian Magnus Falsens vei 9 1433 ÅS			Foretaksnr:	NO 9552222	261 MVA
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9783030561635 ENERGY: PRODUCTION, CONVERSION, STORAGE	1.319,00	2	1.319,	00 0%	2.638,00
9781461485681 GEOTHERMAL ENGINEERING: FUNDAMENTALS AN	1.545,00	2	1.545,		3.090,00
9783030716844 GEOTHERMAL ENERGY - FROM THRORETICAL MO	1.758,00	2	1.758,	00 0%	3.516,00
9781118570708 WRITING SCIENTIFIC RESEARCH AR	428,00	3	428,	00 0%	1.284,00
9781118140628 RENEWABLE AND EFFICIENT ELECTRIC POWER	948,00	2	948,	00 0%	1.996,00
9780470015001 WIND ENERGY EXPLAINED: THEORY, DESIGN	858,00	2	858,	00 0%	1.716,00
9780367736330 PHOTOVOLTAIC SYSTEMS ENGINEERING	714,00	2	714,	00 0%	1.428,00
9780123972705 DOLAR ENERGY ENGINEERING.:PROCESSES AND	1.096,00	2	1.096,	00 0%	2.192,00
9781118022320 WIND RESOURCE ASSESSMENT - A PRACTICAL	1.028,00	2	1.028,	00 0%	2.056.00
9781483386959 INTRODUCTION TO RESEARCH METHODS A HAND	869,00	4	869,	00 0%	3.476,00
9781119624486 ENGINEERING RESEARCH: DESIGN, METHODS,	1.279,00	4	1.279,	80 OO	5.116,00
9781118570692 WRITING SCIENTIFIC RESEAR: STRATEGY AND	1.079,00	1	1.079,	eo 0%	1.079,00
9780745635392 AN INTRODUCTION TO THE PHILOSOPHY OF SC	348,00	2	348,	00 0%	696,00
9781853396465 DESIGNING AND BUILDING MINI AND MICRO H	468,00	2	468,		936,00
9780128207758 GEOTHERMAL ENERGY SYSTEMS	1.648,00	2	1.648,		3.296,00
9781439811672 HYDROELECTRIC ENERGY	1.945,00	2	1.945,		3.890,00
9780128129067 HYDROPOWER 9781138073227 BIOMASS AS ENERGY SOURCE: RESOURCES, SY	658,00	2	658,		1.316,00
9761136073227 BIOMASS AS EMERGI SOURCE: RESOURCES, SI	969,00 828,00	2	969,		1.938,00
9781498759335 GUIDE TO ENERGY MANAGEMENT	1.538,00	4	828,		1.656,00
9780128025062 ENERGY MANAGEMENT PRINCIPLES: APPLICATI	978,00	4	1.538,		6.152,00 3.912,00
9781119540281 SOLAR ENGINEERING OF THERMAL PROCESSES	1.598,00	2	1.598,		3.196,00
9780367188504 INTRODUCTION TO RENEWABLE ENERGY CONVER	1.310,00	2	1.310,		2.620,00
9780367519544 BIOMASS PROCESSING TECHNOLOGIES	625,00	2	625,		1.250,00
9780367576615 PROJECT DEVELOPMENT IN THE SOLAR INDUST	624,00	4	624,		2.496,00
9780335262786 WHAT IS THIS THING CALLED SCIENCE?	448,00	2	448,		896,00
9789152355992 DROJECT MANAGEMENT	612,00	2	612,		1.224,00
9780367434816 INTRODUCTION TO ENERGY ANALYSIS- BL	468,00	2	468,		936,00
9781107016651 PHYSICS OF ENERGY	775,00	2	775,		1.550,00
			Sum den	ne følgeseddel:	67.447,00



Books formally submitted to the main library



Existing status ...

- 2022 activities;
 - Activity plan already developed
 - Facility arrangement (mainly for MSC program) like reference books purchasing, shipping and collection completed;
 - Gender focal person assigned and jointly identified intervention areas gender mainstreaming
 - Curriculum review work workshop arrangement, technical trainings, students follow up, research themes identification and team stabilization etc will be undertaken

THANK YOU