



# DALILA - Development of new Academic curricula on sustainable energies and green economy in Africa

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Final Conference – State University of  
Zanzibar

November 25°, 2023



*“This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein”*

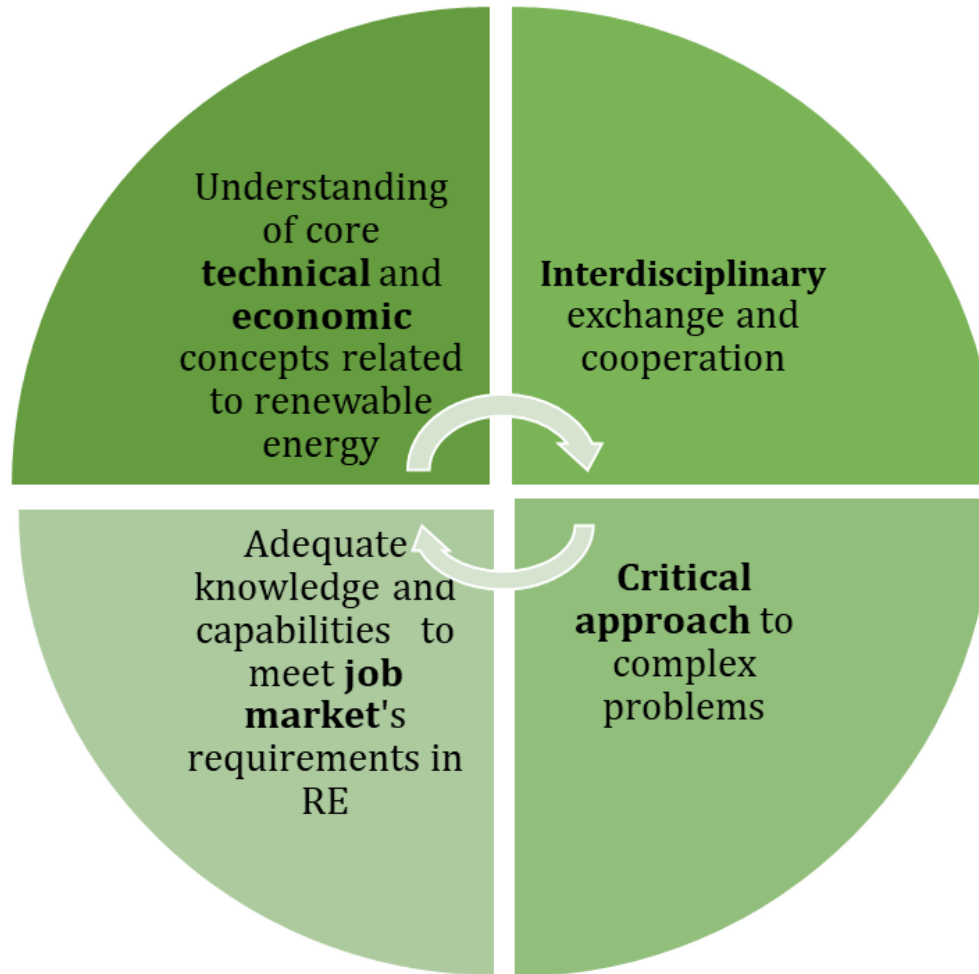
# Main goal!

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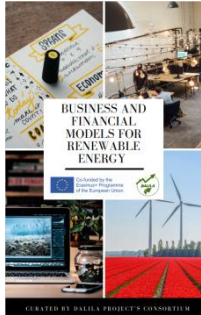
DALILA aimed to support the **modernization, accessibility** and **market-oriented** of higher education in the Uganda and Tanzania in order to contribute to the development of sustainable and inclusive socio-economic growth (in addition to national ownership, social cohesion, equity, proper geographical balance and diversity).

The main objective of the project proposal was to establish **n. 6 new courses** on “**Renewable Technologies**” and “**Green Business creation and development**”.

# DALILA's didactical approach



# N. 6 new courses and e-books

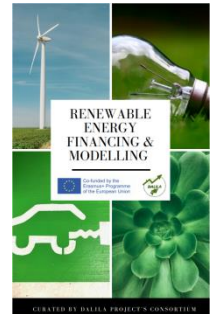


## *Business and Financial Models for Renewable Energy*

The course introduces new and innovative business models in the renewable energy field in the areas of business, economics and administration.

## *Renewable Energy Financing & Modelling*

The main objective of the course is to enhance the understanding of different financial actors and products (equity, loan, bond, leasing structures, guarantees, Islamic financing structure) in Renewable Energy.

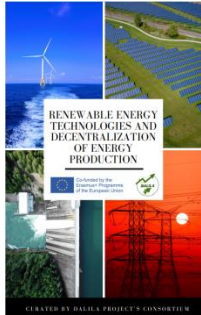


## *Renewable Energy Enterprises' Management - Support to business and enterprises in RE*

The main objective of the course is to give practical information and knowledge about the legal and political framework of renewable energy enterprises' management in the local context and its evolution in the recent past.



# N. 6 new courses and e-books

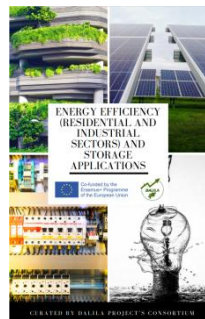


## *Renewable energy technologies and decentralization of energy production*

The course introduces renewable energy and technologies highlighting the working principles of solar PV and thermal, hydro, biomass, wind as well as other renewable energy sources that can be developed in Uganda and Tanzania.

## *Energy and Sustainable development*

The course handles the interrelation of energy, that is renewable and non-renewable with the environment reflecting of the sustainability aspects such as economic, environmental, technical, socio-cultural ones.



## *Energy efficiency (residential and industrial sectors) and storage applications*

The course aims to introduce the concept of energy efficiency and how it may be applied for carrying out all types of energy-dependent activities, such as manufacturing products, heating/cooling buildings.

# Students enrolled

SUZA	First semester			Second semester			Third semester		
	Numer of students			Numer of students			Numer of students		
	Total number	Male	Female	Total number	Male	Female	Total number	Male	Female
Business and Financial Models for Renewable Energy				29	14	15			
Renewable Energy Financing & Modelling				33	15	18			
Renewable Energy Enterprises' Management - Support to business and enterprises in RE							14	7	7
Renewable energy technologies and decentralization of energy production				48	24	24			
Energy and Sustainable development	32	15	17						
Energy efficiency (residential and industrial sectors) and storage applications							14	7	7

# Innovative training: MOOCs

E-learning Italiano (it)

Dashboard / Corsi / DALILA MOOCs

Cerca corsi

1\_Renewable Technologies and Sustainable Development

Docente: Said Bakari  
Docente: Gabriella Calderari  
Docente: Katuscia Cipri  
Docente: Jose Antonio Clavijo  
Docente: Costanza Cucuzzella  
Docente: Lucie Greyl  
Docente: Javier Leal  
Docente: Peter Legemwa  
Docente: Jumanne Mtambalike  
Docente: Godfrey Sempungu  
Docente: Said Vuai  
Docente: Giulia Zacchia

2\_Business models for Renewable Energy

Docente: Said Bakari  
Docente: Gabriella Calderari  
Docente: Katuscia Cipri  
Docente: Jose Antonio Clavijo  
Docente: Costanza Cucuzzella  
Docente: Lucie Greyl  
Docente: Javier Leal  
Docente: Peter Legemwa  
Docente: Jumanne Mtambalike  
Docente: Godfrey Sempungu  
Docente: Said Vuai  
Docente: Giulia Zacchia

*(WP3) n. 2 MOOCs available on the E-learning page of DALILA website:*

1. Renewable Technologies and Sustainable Development
2. Business models for Renewable Energy

*n. 30 videos*

*Quiz for self-evaluation*

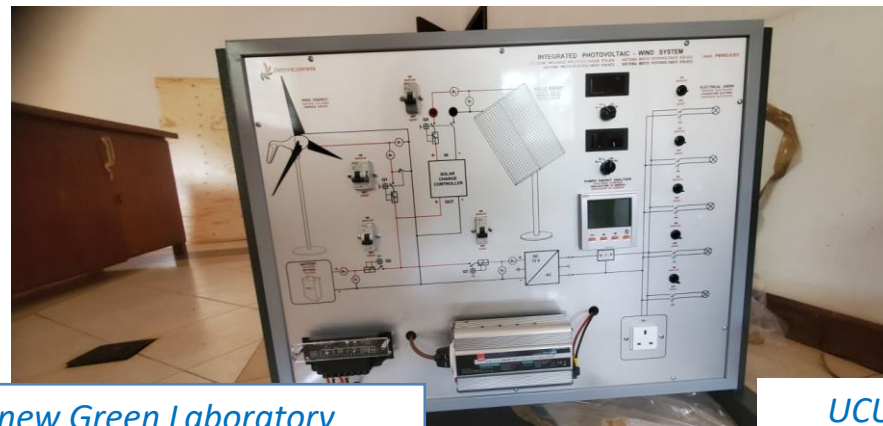
*Reports, documents, publications and statistics*

**Free access for Users!**

# New DALILA Green Laboratories



SUZA



UCU

*(WP2) Installation of the new Green Laboratory  
Organization of the Educational Week  
Training on the use of the devices for local technicians*



UDOM



UMU



# New DALILA Green Laboratories

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## *n. 4 Agreements for the Joint Use of Laboratories among the n. 4 African Universities*

*Development of training activities based on the use of the equipment and devices  
Development of joint researches in the areas of Green Technologies and Economy*

# International mobility



*(WP4) European  
Specializing Courses at  
Sapienza University of  
Rome (Italy) and at the  
University of Cadiz  
(Spain)*

*For the best n. 16 students*



# International mobility

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*(WP4) Training of Trainers at the  
University of Cadiz (Spain) on  
Photovoltaic and Wind energy and technology*



# Business skills labs

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## *(WP5) Business skills labs of Sahara Ventures*

*Two-week training for students on the creation of innovative Startup on the green topics: strategies, problems, ideation, social impact, management of new products, market strategies, laws and intellectual properties.*

## *(WP5) Business skills labs of INOMA*

Three seminars on business opportunities in grid connected photovoltaic systems and renewable energy sectors



# Dissemination events



## *(WP1) n. 1 Training session on*

- Higher Education System in Europe: Bologna Process and credits
- Credit Recognition & Transfer
- Comparable Criteria for Courses and Programmes in EU

## *(WP1) n. 4 Info-day on Climate Change*

Introduction to the main topics of DALILA project and the opportunities that courses and international experiences can give to the students



## *(WP2) Three-day Scientific Symposium (online)*

1. University and cooperation for sustainable development in Africa
2. The importance of an interdisciplinary and international teaching approach in the development of new capabilities in the energy and green sector
3. Smart-Up: how to start your own green business



September 16th, 2021  
11:30 - 13:30 am (GMT+3)

# Dissemination events

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## *(WP6) International Logo competition*

The competition saw the submission of a total of n. 62 logos from the students of the n. 4 African Universities partners of DALILA



## *(WP6) n. 4 Info-day for students enrollment*

Presentation of DALILA new courses and international opportunities

# New opportunities for the Future!

The screenshot shows the 'Funding & tender opportunities' portal. At the top, it says 'European Commission' and 'Single Electronic Data Interchange Area (SEDIA)'. There are 'Register' and 'Login' buttons. A navigation menu includes 'HOME', 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. Below the menu, there's a search bar for 'Find calls for proposals and tenders'. A grid of 'EU Programmes' is displayed, listing various funds like Asylum, Migration and Integration Fund (AMIF), Erasmus+, and Horizon Europe. On the right, a 'News' section contains updates such as 'Updated pre-financing guarantee template is published' and 'Onboarding webinar for AUDIT 2023 Framework Contractors in the Funding and Tenders Portal (OPSYS)'. There are also 'Events' and 'Useful links' sections.

*New European funds, calls and projects*

*Only one platform (Funding & Tender opportunities) for all the European call in Education, Cooperation, Research, Mobility.*

# New opportunities for the Future!

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## *Italian Higher Education with Africa - IHEA*

Sapienza University signed the deed of incorporation of the IHEA Foundation aimed at promoting the internationalisation of Italian universities in Africa and contributing to local development with a view to cooperation.

Main activities:

- develop education and training for students living in African countries through appropriate interdisciplinary scientific methods
- promote support and refresher courses for personnel and academic staff of local universities.



# Thank you to the Partners

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SAPIENZA  
UNIVERSITÀ DI ROMA



THE STATE UNIVERSITY OF ZANZIBAR  
*Catalyst for Social Changes*



UGANDA CHRISTIAN  
UNIVERSITY  
*A Centre of Excellence in the Heart of Africa*



Inoma ingeniería de obras  
y mantenimiento  
renovables,sl





THANK YOU!

*Chi trova un amico, trova un tesoro!*  
*Whoever finds a friend, finds a treasure!*  
[Italian proverb]



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