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**Material of online training program**

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Authors : Leslie ASHBURNER (UCT)

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Project officer: Maria-Laura TRIFILETTI"

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**Summary**

As part of the capacity building aims of SETADISMA (WP13), the partners developed a suite of five online trainings, Off-Grid Solutions for a Sustainable Energy Transition in Africa. The trainings are uploaded onto the LEAP-RE Knowledge Platform, delivered on the EdApp platform and highlighted on the LEAP-RE SETADISMA webpage with access to the EdApp. The trainings have been promoted via LEAP-RE you tube and the opportunity will be disseminated by the partners in a coordinated fashion over the next few years.

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**Approval**

Date	By
2025-11-01 19:57:45	Riccardo MEREU (POLIMI)
2025-11-03 14:05:41	Léonard LéVêQUE (LGI)



# LEAP-RE

Long-Term Joint EU-AU Research  
and Innovation Partnership on Renewable Energy

Research & Innovation Action

## **WP13 SETADISMA**

### **D13.8 Materials of online training program**

Version N°2

#### Author:

Leslie Ashburner, University of Cape Town

#### **Disclaimer**

The content of this report reflects only the author's view. The European Commission is not responsible for any use that may be made of the information it contains.



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# 1. Summary

As part of the capacity building aims of SETADISMA (WP13), the partners developed a suite of five online trainings, **Off-Grid Solutions for a Sustainable Energy Transition in Africa**.

The trainings have been uploaded onto the [LEAP-RE Knowledge Platform](#).

The results can also be found on the [LEAP-RE SETADISMA webpage](#) with access to the trainings on the [EdApp](#). News of the trainings will be disseminated by the partners in a coordinated fashion over the next year.

# 2. Keywords

online trainings, renewable energy,

# 3. Results

Polimi and UCT facilitated the design of a suite of five online trainings, Off-Grid Solutions for a Sustainable Energy Transition in Africa. The materials were based on the emerging and tested content from the RE Schools and then further adapted. Selected WP13 partners developed the 5 online training courses.

The trainings have been uploaded onto the LEAP-RE Knowledge Platform (see Figure 1 below).



Figure 1. Snapshot of the trainings on the [LEAP-RE Knowledge Repository](#).

The five courses are published on the EdApp Learning Platform, an Open Access platform where anyone who has the link to the courses can register and complete the trainings. One of the reasons for selecting this particular app, in addition to it being Open Access, is that it is very suitable for using in a mobile phone device, and this makes it more likely to be used by students without laptops.

The courses are comprised of between four and ten lessons each, and include tests and practical exercises for students to check their learning as they progress. The courses are narrated.

Information about the courses and access to the trainings is on the [LEAP-RE SETADISMA webpage](#) as follows in figure 2.

## Online Trainings

**Off-Grid Solutions for a Sustainable Energy Transition in Africa**

Welcome to a suite of five online trainings developed by the LEAP-RE SETADISMA partners.







**Assessment of Renewable Energy Resources by National Laboratory of Energy and Geology (LNEG)**

This course focuses on the assessment of wind and solar resources. In this course, participants will learn how to develop a measurements campaign for renewable energy resource assessment and how to use Reanalysis data and mesoscale modelling to achieve this. The course comprises four lessons and, with the practical exercises, will take approximately seven hours to complete.

**Data for Renewable Energy Systems by Strathmore University**

In this course, the student will explore the world of data and how it can be used to drive innovation in renewable energy systems. You'll learn how to classify data and choose the right analysis techniques for each type. You will also learn about the process of data cleaning and preparation. You'll learn how to transform raw data into compelling narratives that inform and inspire action. The course comprises five lessons and will take approximately seven hours to complete.

**Business and Socio-Economic Contexts of Mini Grid Development by LUT University, Strathmore University and University of Pisa**

The course highlights the complex contexts in which mini grid developers operate in Africa and how the interests of both business and local communities can best be served. The success and sustainability of mini-grid projects rely on effective business models that balance economic viability with social and environmental objectives. The course will cover different types of business models, as well as various approaches that can enhance the impact and financial sustainability of mini-grids. The course comprises five lessons and will take approximately seven hours to complete.

**Entrepreneurship in the off-grid solar energy sector by Pan African University Institute of Water and Energy Sciences (PAUWES)**

This course aims to give prospective entrepreneurs the knowledge, skills, and insights to navigate the off-grid energy sector in Africa. This course will provide an in depth look at relevant business models to support your entrepreneurship journey in the off-grid solar energy sector. Through case studies and theory, the course highlights the dynamics and strategic opportunities of the off-grid energy sector in Africa, and will help you develop a pitch for your solar energy business project. The course comprises nine lessons and will take approximately 11 hours to complete.

**Off-Grid Energy Systems Modelling with MicroGridsPy by SESAM at Politecnico di Milano (Polimi)**

This course explores the broad concept of Energy Systems Modelling and highlights a new open-source modelling tool, MicroGridsPy, for identifying the optimal size of hybrid mini-grids for rural areas. Participants will understand how to build, run, and analyse results from models through the use of relevant case studies.

The course comprises 13 lessons and, with the practical exercises, will take approximately 16 hours to complete.

Figure 2: Snapshot of the trainings on the [LEAP-RE SETADISMA webpage](#)

## 4. Dissemination

In addition to the online trainings, five short promotional videos were developed to attract potential learners to the trainings. The promotional videos are published on the [LEAP-RE YouTube channel](#), with a link to the [LEAP-RE SETADISMA page](#).

During December 2024, the WP13 partners completed a wide first round of disseminating the videos promoting the online trainings, including via partner networks and LinkedIn pages, as well as to the database of Master of Science and PhD students connected to WP13.



## 5. Going forwards

Going forwards, the WP13 partners will continue disseminating the information about the trainings widely, in multiple 'rounds'.

In addition, all the contributing partners are free to take the Open Access training resources and use them on a reputable learning platform of their choice, provided that the LEAP-RE programme and the course author institutions are credited and informed. Partners would then liaise directly with LGI to add the links to the new learning platform to the [LEAP-RE SETADISMA page](#). This way, whoever watches the promotional videos, and comes to the SETADISMA page, will see multiple options for where to access the courses, over time.

All resources for the online trainings are stored in the LGI LEAP-RE Sharepoint folder to ensure they can be accessed by WP13 partners as necessary in the future.