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Glossary

AUDA	African Union Development Agency
AfSEM	African Single Electricity Market
CCSE	Climate Change and Sustainable Energy (partnership)
ECEMF	European Climate and Energy Modelling Forum
CMP	Continental Master Plan
ECEMP	European Climate and Energy Modelling Platform
EMP-A	Energy Modelling Platform for Africa
EMP-G	Energy Modelling Platform – Joint global training school
HLPD	High-Level Policy Dialog
IAEA	International Atomic Energy Agency
IRENA	International Renewable Energy Agency
NEPAD	New Partnership for Africa's Development
WEF	Water Energy Food (nexus)

Introduction

This deliverable constitutes the first of three versions of a short report on activities. As such, it does not present scientific content and it does not have the structure of a scientific report (among others, no executive summary is needed). It provides a concise account of the activities carried out in Task 5.4 (Supporting existing energy & climate partnerships and reports, led by Enda Energie) and Task 5.5 (Contribution to the work of the AU-EU High Level Policy Dialog (HLPD) Climate Change and Sustainable Energy (CCSE) partnership and collaboration with other AU-EU energy projects, led by KTH Royal Institute of Technology) and their scope. In RE-INTEGRATE, what distinguishes Task 5.4 and Task 5.5 is their scope. The former task focuses on collaboration with extra-EU networks, to a large extent sourcing from networks of Enda Energie, of the Scientific Advisory Board members, and of the Climate Compatible Growth (CCG) programme (which RE-INTEGRATE interacts significantly with). The latter focuses on collaboration specifically with EU-funded projects and networks, included the other projects funded under topic HORIZON-CL5-2022-D3-02-02 (AU-EU Energy System Modelling), but also those funded under HORIZON-CL5-2021-D3-03-01 (AU-EU Water Energy Food Nexus), LEAP-RE and several others. Due to the different focus, we will present activities for Task 5.4 and Task 5.5 separately.

Referring to the topic's intended outcomes, all these activities contribute significantly to most of them, specifically to:

- Reinforcing the activities of the AU-EU HLPD CCSE Partnership in the long term;
- Providing knowledge and scientific energy system modelling as evidence base including the environmental, social and economic trade-offs to contribute to R&I strategy and policy making.
- Supporting a permanent network of African experts and expertise in energy system modelling.

The identification of networks in Task 5.4 and 5.5 and the setup of collaborations with them supports multiple other activities in RE-INTEGRATE:

- It allowed RE-INTEGRATE to become one of the creators, in partnership with the Climate Compatible Growth programme, of a new scheme of energy modelling and training proficiency badges that is now being rolled out by the Open University (linked to Task 2.3);
- It enables RE-INTEGRATE experts to become part of and contribute to an international community of trainers in energy systems modelling and a larger community of practice in energy systems modelling (linked to Tasks 2.5 and 3.3);
- It contributes to ideation around modelling practices, which in turn informs the choice of modelling approaches (in Tasks 3.4, 4.1 and 4.2);
- It supports the scoping of relevant stakeholders (Tasks 2.1 and 2.2), the initialisation of dialogues with them (Task 5.1) and, consequently, the

extraction of policy insights on country (Task 3.5) and regional (Task 4.4) scale;

- It works in synergy for network mapping with Task 6.4. Task 6.4 focuses on collaborative networks on energy system modelling, starting from the alumni of international training events such as the Energy Modelling Platforms. Whereas Task 5.4 targets broader networks (researchers, civil society organisations, professional networks, etc.) that are active around the energy transition or climate change.

The two next sections give an account of the activities related to Task 5.4 and Task 5.5, respectively. Each section starts with a list of activities in a table form and then details key aspects of these.

Activities in Task 5.4 (Supporting existing energy & climate partnerships and reports)

Table 1 provides a list of networks RE-INTEGRATE connected with in Task 5.4, the main interactions occurred and the key outcomes of such interactions up to the time of writing (end of February 2025, Month 18 of RE-INTEGRATE).

Table 1. List of networks, interactions and related outcomes in T5.4 up to Month 18 (February 2025).

Network	Key interactions	Key outcomes
African Union Development Agency	Organisation of joint event with AUDA-NEPAD at COP29 (not finalised for lack of time, postponed to COP30); Regular contributions and feedback at RE-INTEGRATE's consortium meetings as Scientific Advisory Board members; Continuous exchange on African Continental Master Plan;	Contributing (still shaping up) complementary insights to the African Continental Master Plan; sharing knowledge on and improving practice of capacity development – capacity sharing
IRENA	Regular contributions and feedback at RE-INTEGRATE's consortium meetings as Scientific Advisory Board members;	Contributing (still shaping up) complementary insights to the African Continental Master Plan; sharing knowledge on and improving practice of capacity development – capacity sharing
GET.Transform	Regular contributions and feedback at RE-INTEGRATE's consortium meetings as Scientific Advisory Board members;	None yet
IAEA	Regular contributions and feedback at RE-INTEGRATE's consortium meetings as Scientific Advisory Board members; Introduction of RE-INTEGRATE experts to IAEA's pool of experts for capacity development activities	Contributing (still shaping up) complementary insights to the African Continental Master Plan; sharing knowledge on and improving practice of capacity development – capacity sharing; bringing together key development actors in supporting the creation

		of a community of AU-EU experts in energy systems modelling
Climate Compatible Growth programme	Tight collaboration throughout the project duration, on creation of teaching material, creation of a system of training and modelling proficiency badges for consolidating an energy modelling community of practice, creation of teaching modules or curriculums in Higher Education Institutions in the AU, organisation of tracks at EMP-A and EMP-G, reflections on capacity sharing and train-the-trainers practices	Consolidating a network of AU and EU experts, teachers and trainers in Energy Systems Modelling; open access body of knowledge highly used by modellers and teachers in AU and EU contexts; improvement of capacity development – capacity sharing practice in the AU and EU
Energy Modelling Platform for Africa and Global (EMP-A and EMP-G)	Participation of trainees and trainers from RE-INTEGRATE at EMP-A 2024 (May 13-31st, 2024, Accra, Ghana), EMP-G 2024 (August 12-23rd, Trieste, Italy), EMP-A 2025 (April 21st – May 9th, 2025, Addis Ababa, Ethiopia)	Consolidating a network of AU and EU experts, teachers and trainers in Energy Systems Modelling
COP 29	Enda Energie and KTH led contributions of RE-INTEGRATE to COP 29 (11-22nd November, 2024, Baku, Azerbaijan): • Francophone pavilion, November 13th; presentation of the project; • NDC Partnership pavilion and the Senegal pavilion, November 15th; alignment of the project with Senegal's Long-Term Strategy; • Bilateral meeting with representatives of Deep Decarbonization Pathways network at the NDC pavilion, November 15th	Connecting policy making arena with modelling community and improving the communication between them; making the modelling analysis policy-relevant and involving policy makers in the larger modelling process

INforSE, DDP, IGSHUB, DRYNET, West African alliance carbon market, GAYO Network, Global Green Network, Climate Action Network International	Contacts by e-mail or bilateral meetings were held with each of its networks, under the lead of Enda Energie. RE-INTEGRATE was presented and possibilities were discussed for strengthening the communication with these networks, which bring together several players who are active on energy transition issues.	Supporting the establishment of a network of experts by cross-dissemination

AUDA-NEPAD, IAEA and IRENA deserve particular mention. They are included here, despite them being per se organisations and not networks, because of the network that, together, they constitute. All these organisations are in the Scientific Advisory Board of RE-INTEGRATE, so that there may be regular sharing of outputs with them, and their feedback may actually guide the scientific direction of the work of the project. Such role was formally signed by AUDA-NEPAD, as organisation, and by an expert from IAEA, in personal capacity, at the beginning of RE-INTEGRATE through a letter of interest stating the scope of the collaboration. IRENA is contributing in the same way, though without a formal agreement.

These organisations are all part of the multi-year effort of creating the African Continental Mast Plan (CMP) [1] for electricity transmission and generation, aimed at supporting the interconnection of Africa's energy infrastructure and, ultimately, the African Single Electricity Market (AfSEM). The CMP was called to become flagship project of Agenda 2063 at the 37th Ordinary Session of the Assembly of the Heads of State and Government of the African Union in February 2024. The effort is implemented by AUDA-NEPAD and supported by the European Union - Global Technical Assistance Facility (EU-GTAF), IAEA and IRENA. The latter two are implementers of the large training and modelling effort it involved across the African continent. Broadly viewed, the output of the African Continental Master Plan was diverse, including model infrastructure, model scenarios and policy-relevant insights, as well as modelling and trainer capacity.

One of the key aims for the collaboration of RE-INTEGRATE with AUDA-NEPAD, IAEA and IRENA is for RE-INTEGRATE to adjust, through continuous feedback, its scientific direction so as to bring through its modelling analysis complementary insights to the Continental Master Plan or validate the existing ones. These may come through the various modelling approaches and different levels of granularity used by RE-INTEGRATE in the national and sub-national modelling work carried out in WP3, as well as the different perspectives taken in WP4.

Another noteworthy collaboration is the one with the network of the UK-funded Climate Compatible Growth (CCG) Programme. This collaboration is facilitated by KTH Royal Institute of Technology, Imperial College London and Strathmore University being partners in CCG, and several other institutions in RE-INTEGRATE

having collaborated with it (especially VTT on the EU side and almost all of the AU partners). CCG is spearheading one of the largest capacity development efforts on energy systems modelling and teaching currently ongoing in the AU, in collaboration with many international organisations (including those in the Scientific Advisory Board), Higher Education Institutions and financing institutions. One of the elements that CCG has in common with RE-INTEGRATE is the approach to capacity development, which is steered by the principles of sharing of capacity, local ownership and capacity retention, creation of community and open science. Hence the decision of RE-INTEGRATE and CCG to coordinate on the capacity development work, create sounds processes for it together and share outputs with one another, with due acknowledgment, in order to maximise the efficiency and impact of their combined action while reducing fragmentation. Large part of the outputs of this collaboration revolves around the creation of workflows, knowledge body and network of experts for capacity development programmes in the AU. Examples are:

- The use in RE-INTEGRATE of open access self-learning materials in the use of relevant modelling tools (for energy systems modelling, dispatch modelling, demand modelling, financial modelling) for the upskilling of partner teams;
- The use in RE-INTEGRATE of modelling tools (for energy systems modelling, dispatch modelling, demand modelling, financial modelling) and workflows promoted and maintained by CCG and partners (such as OSeMOSYS-FlexTool, MAED, FINPLAN);
- The participation of RE-INTEGRATE researchers to regional or global training events in modelling organised by CCG (EMP-A and EMP-G mostly), as trainees;
- The sharing of CCG's experience in the creation of new course modules or curriculums on energy system modelling and planning at Higher Education Institutions in the AU, for organising similar type of curriculum-shaping work at the institutions represented in RE-INTEGRATE;
- The creation by RE-INTEGRATE of a modeller- and trainer-proficiency scheme (with tiered badges), in collaboration with and with inputs from CCG as well as international organisations in its network (IAEA and UNDESA especially), to harmonise the certification of proficiency across the community. The scheme of badges is then implemented by CCG through the Open University, through a well-established system where badges can, once obtained, be shared on LinkedIn;
- The contribution of RE-INTEGRATE to the EMP-A and EMP-G training events organised by CCG with trainer capacity, from the expertise of RE-INTEGRATE's AU partners. This capacity feeds to a large international community of practice of experts and trainers, consolidating a network of AU experts in energy systems modelling and the whole energy system modelling ecosystem across the AU and EU;
- The contribution of RE-INTEGRATE's expert trainers from both the AU and EU to the creation of new versions of training material published and used by CCG, in different languages.

Activities in Task 5.5 (Contribution to the work of the AU-EU High Level Policy Dialog (HLPD) Climate Change and Sustainable Energy (CCSE) partnership and collaboration with other AU-EU energy projects)

Table 2 provides a list of networks RE-INTEGRATE connected with in Task 5.4, the main interactions occurred and the key outcomes of such interactions up to the time of writing (end of February 2025, Month 18 of RE-INTEGRATE).

Table 2. List of networks, interactions and related outcomes in T5.5 up to Month 18 (February 2025).

Network	Key interactions	Key outcomes
OpenMod4Africa and EMERGE	Establishment of a plan for collaboration early on and first coordination meeting (June 19th, 2024, online); Joint session on AU-EU energy system modelling at ECEMP 2024 (October 17th, 2024, online); Cross-referencing on projects websites; Regular presentation of project updates at each others' consortium meetings; Attendance at RE-INTEGRATE's regular modelling webinars	Close collaboration between projects funded under the same call, identification of complementarities and synergy in forwarding AU-EU knowledge sharing in EU contexts
EPIC Africa	Reciprocal project presentations and identification of areas for collaboration and discussion around EPIC Africa's Transition Arena (July 10th, 2024) Attendance at RE-INTEGRATE's regular modelling webinars	Exchanges on knowledge sharing approaches, aiming to advance them, and contribution to the creation of networks of modellers
ONEPlanET	Reciprocal project presentations and identification of areas for collaboration (July 1st, 2024, online); Presentation at ONEPlanET's WEF models webinar (September 5th, 2024, online); Presentations and panels at ONEPlanET's 'Synergies for	Knowledge sharing on modelling approaches and contribution to the creation of networks of modellers

	sustainable energy transition in Africa, perspectives from 4 sister projects' event (September 20th, 2024, online); Attendance at RE-INTEGRATE's regular modelling webinars	
IAM COMPACT	Participation of RE-INTEGRATE at a train-the-trainers event organised by IAM COMPACT at the Energy Modelling Platform 2024 at ICTP in Trieste, Italy (August 19th, 2024, hybrid)	Contributed to creating a structured approach to training trainers at CCG's Energy Modelling Platforms, in collaboration with IAEA and between EU projects; established the presence of AU trainers at the Energy Modelling Platforms
LEAP-RE	Attendance at sessions of the LEAP-RE stakeholder forums (October 10-11th, 2023, and October 8-10th, 2024, online); Presentation of LEAP-RE platform v2 (April 26th, 2024, online); RE-INTEGRATE partners part of the LEAP-RE community;	None yet
ECEMF and ECEMP	RE-INTEGRATE organised with the sister projects a joint session at ECEMP 2024 and participated with presentations in another session (both on October 17th, 2024)	The three sister projects brought the theme of AU-EU collaboration in energy modelling and planning at ECEMP (aiming to establish it permanently) and opened the space for contributions from the AU, supporting its network of experts
Open Energy Modelling Initiative (OpenMod)	RE-INTEGRATE contributes to the organisation of the March 2025 meeting of OpenMod (to be held at KTH, on March 25-26th, 2025)	Introduction of the theme of inclusive modelling at the OpenMod, and opening the space to modellers and researchers from Low and Middle Income Countries
EU project Mopo	RE-INTEGRATE utilises VTT's Spine Toolbox, developed currently under Mopo	Enhancing the impact of the Spine Toolbox and fostering the FAIR

		principles (especially interoperability)
KTH Global Development Hub	RE-INTEGRATE attended the Hub's 'KTH in Africa' days and presented a poster (January 17-18th, 2024)	Brought new views on capacity sharing

The coordination with the other projects funded under HORIZON-CL5-2022-D3-02-02 (AU-EU Energy System Modelling), OpenMod4Africa and EMERGE, is one of the key activities in this task. At the first annual coordination meeting, held online on June 19th, 2024, the projects agreed on the following directions for collaboration:

- Discuss assumptions, data input, scenarios – especially by including common partners from the AU, and connecting partners from same region. One potential specific topic identified is the structure and input assumptions of the GENeSYS-MOD model used in OpenMod4Africa and how these compare with those in country and regional models developed in RE-INTEGRATE.
- Modelling challenges, e.g. modelling of storage, particularly cascaded dams. This could include storage modelling in GENeSYS-MOD, but also storage modelling in MEASSAGE and SPLAT. RE-INTEGRATE could host such discussion as part of one of its monthly webinars on modelling (open to modellers from outside the project, and organised by the WP3 leaders, E3Modelling/Ricardo).
- Review each other's reports.
- Collaboration in capacity development efforts if and when and where they were to overlap. This may start by sharing a schedule of workshops and trainings with each others.
- Organisation of common open workshops for capacity building for experts external to the projects, jointly teaching.
- Joint production of on-line teaching material for OnSSET and OSEMOSYS/GENeSYS-MOD, which are tools in common between RE-INTEGRATE and OpenMod4Africa.
- Discuss the final recommendations and if possible/relevant also develop joint recommendations from the three projects, potentially developing also a joint white paper towards the end of the projects.

Some further elaboration is due on the monthly webinars organised by RE-INTEGRATE within WP3. These are intended as an informal and open space, not strictly formatted, for modellers across RE-INTEGRATE and any other interested ones from international and EU networks, from the CMP team and from sister EU projects to share ideas on how to model certain aspects of energy systems. Participants may sign up to present their approaches and achievements, but also to present challenges which other modellers with longer experience in the topic may help with. RE-INTEGRATE has reached out to and gathered interest for these webinars from OpenMod4Africa and EMERGE, but also from EPIC Africa, ONEPlanET and CCG (which at the time the webinars started was going to start something similar). Colleagues from some of these projects have joined some of

the webinars, but their attendance and contribution is now being structured into a calendar and is expected to increase in 2025. The goal of extending the invitation to modelling discussions to other projects is to create a platform for sharing of ideas and capacities between researchers actually involved in the modelling across the various projects, hopefully creating a knowledge-spillover effect.

An additional note concerns the contact with the network of projects organising the European Climate and Energy Modelling Platform (ECEMP). RE-INTEGRATE, OpenMod4Africa and EMERGE are joining efforts in creating a lasting contribution to ECEMP, by bringing the perspective of AU-EU capacity sharing to such arena. The projects co-organised a parallel session on 'Advancing Africa's Energy System' at ECEMP 2024, with a panel constituted of representatives from AUDA-NEPAD, European Commission, Eastern Africa Power Pool, Energy for Growth Hub, Western Africa Power Pool, moderated by a representative §from UNEP Copenhagen Climate Centre. The intention is for such type of session to be consolidated in the concept of future ECEMPs as well, as a way to open the space of discussions on the EU energy transition and supporting modelling also to AU experts. This allows not only the involvement of different perspectives of close stakeholders of the EU energy transition (where energy commodity trade with the AU already plays a part and is on many sides expected to increase), but also to promote a multi-lateral sharing of knowledge, with more possibility for learning also on the EU side.

Contribution of Tasks 5.4 and 5.5 activities to RE-INTEGRATE's dissemination goals and Key Exploitable Results

In Table 3 we report RE-INTEGRATE's dissemination objectives as per table appended to the project's technical description. We mark in light blue those targets which the activities of T5.4 and T5.5 contributed to so far, with indication of the progress brought by these activities.

Table 3. RE-INTEGRATE's dissemination objectives.

Dissemination objective	Target group	Measures and KPIs
Ensure stakeholders' engagement in driving the research and analytical work.	Priority Users Group; SAB; other AU Stakeholders	Stakeholder workshops to set up analytical activities (>2 key institutions – utility, funding bodies, government - represented at the workshops for each of the 8 AU countries)
Provide the stakeholders with practical and usable policy and investment recommendations.	Priority Users Group; SAB; other AU Stakeholders; COP / EMP-A / SDSummer School high-level dialogues participants	Stakeholder workshops, Review of briefs by stakeholders, Organisation of COP side-events, high-level presentations (>25 stakeholder representatives downloading and reviewing briefs by project's end; >100 overall downloads of briefs from Zenodo by project's end; >8 high-level presentations by AU analysts) 🗆 **presentations at 3 pavilions at COP 29 organised and led by AU analysts**
Provide supporting information and research infrastructure to existing partnerships in the AU energy and climate landscape and the HLPD CCSE Partnership.	AU-EU Energy Partnership, Africa Green Hydrogen Alliance, CCG Partnerships, other EU projects, energy and climate networks in the AU, LEAP-RE projects	Stakeholder workshops, Bi-lateral interactions (>1 bi-lateral interaction around RE-INTEGRATE outputs with each of the networks by the project's end) 🗆 **Several bilateral interactions with EMERGE, OpenMod4Africa, EPIC Africa, ONEPlanET, LEAP-RE, AUDA-NEPAD, ECEMP organisation committee**
Share and foster ownership of research infrastructure for 3E modelling by the AU and EU research community.	EMP-A and SDSummer School trainees	(Co-)Organisation of tracks and teaching at EMP-A and SDSummer School (>30 trainees obtaining a certificate of completion from at least 8 AU countries) → **2 trainers + 6 trainees completed tracks**
Engage the international teachers and trainers community in the co-creation of teaching and learning material.	EMP-A and SDSummer School trainers; lecturers of AU and EU universities; other EU projects and CCG	Use of workflows for creation and update of courses at EMP-A and SDSummer School (>20 course modules or hands-on exercises co-created or co-updated by at least 2 institutions, of which one from the AU) 🗆 **French version of Open University courses on Introduction to CLEWs and FINPLAN created by AU analyst**

		training as trainer and published **(17 lectures and 8 hands-on exercises overall)**
Create enabling environment for multi-lateral knowledge sharing on AU-EU energy modelling challenges and solutions.	Participants of ECEMP, IEW, OpenMod and other conferences; The Turing Way initiative; partners of other EU projects and CCG	Preparation and delivery of (high-level) presentations and workshop sessions by AU analysts at ECEMP, IEW, OpenMod and others (>8 presentations by the end of the project, in presence or online) **1 presentation by AU analyst at ECEMP done**
Create a dialogue and a space for improvement on gender and minorities-related aspects in energy systems modelling and teaching.	AU and EU analysts of different gender identities; AU and EU analysts representative of minorities	Surveys and bi-lateral interactions at the sides of stakeholder workshops and international training (>20 relevant items of feedback obtained from at least 10 recipients by the end of the project)
Dissemination of RE-INTEGRATE's scientific outputs to the wider research community.	AU and EU researchers, analysts, practitioners	Open access scientific publications (>20 published or submitted with at least one round of review by the end of the project) and 1 Special Issue in ESR or ESD

In Table 4 we report RE-INTEGRATE's Key Exploitable Results (KERs) as per table appended to the project's technical description. We mark in light blue those results which the activities of T5.4 and T5.5 contributed to so far, with indication of the progress brought by these activities.

Table 4. RE-INTEGRATE's Key Exploitable Results (KER).

KERs (per Specific Objective – SO)	Specifics
SO1 – Formalise partnerships	
KER1.1. Memorandums of Understanding (MOUs); Letters of Intent (LOIs); Terms of Reference (TORs); other agreements	Successful drafting and signing of at least one such for each of the 8 AU countries by the end of the project, presenting a plan for the bi- or multi-lateral partnerships between AU institutions and/or AU-EU institutions
KER1.2. Knowledge management process	Process for the curation and sharing of knowledge products between AU and EU partners in place by the end of the project for use by extended networks such as OpTIMUS Community of Practice or CCG Programme **Through the CCG – RE-INTEGRATE collaboration, key pieces of the process have been created, i.e. a tiered system of badges for certifying modelling and training proficiency, and the pillars of a train-the-trainer program, both discussed and shared with the larger energy modelling community and development partners active in energy**

	modelling and trainings (such as IAEA and UNDESA)
SO2 – Carry out, in partnership, integrated 3E modelling assessments	
KER2.1. Open-source national research infrastructure	One set per AU partner country available and accessible by the end of the project, including modelling protocols, improved and fit-for-purpose modelling tools, supporting documentation and teaching material, open access model-based scenario projections and applications ready for further scenario runs
KER2.2. Open-source regional research infrastructure	At least one set of open-source 3E models covering the AU and the EU and energy trade between/within them will be available by the end of the project. Including open-access documentation and model applications for new scenario runs
SO3 – Develop practical and actionable recommendations	
KER3.1. National and regional policy briefs	At least one policy brief per AU partner country and one AU-EU-scale policy brief detailing challenges and proposed policy responses, ready for use in high-level policy dialogues and further iterations of the model-policy process
SO4 – Establish a monitoring and evaluation process for the extent and quality of knowledge sharing	
KER4.1. Quality assessment procedure	Manual for the assessment of the quality and extent of knowledge sharing, grounded on the latest pedagogical science and demonstrated in an operational environment (TRL7) by the end of the project
SO5 – Establish dissemination and exploitation mechanism	
KER5.1. DCE Strategy	A published and updated Dissemination, Communication and Exploitation Strategy, including strategies to connect RE-INTEGRATE and its ecosystems to government, utilities, businesses, and researchers.
KER5.2. Courses, course updates and teaching material	> 20-course modules or hands-on exercises created or updated and released open access (CC BY 4.0). Including 1-4 course modules on Political economy and one set of material on Macroeconomic modelling. ⬜ **French version of Open University courses on Introduction to CLEWs and FINPLAN created by AU analyst training as trainer and published (17 lectures and 8 hands-on exercises overall); 1 teaching module on modelling storage technologies in the OSeMOSYS energy modelling tool published on Zenodo**

References

[1] AUDA-NEPAD, The African Continental Master Plan: A Continental approach to Africa's energy future, 2022. Accessed on 25/02/2025 at: https://nepad.org/continental-master-plan.