

INTRODUCTION

ONEPlanET project aims at **empowering** African policymakers, research and academia, investors and citizens with the necessary tools and know-how to increase **clean energy generation** and **sustainable use of resources** while **reducing inequalities** and cultural/socio-economic gaps.

The project is coordinated by *RINA Consulting* (Italy) and brings together **12 multidisciplinary partners** in **9 European and African countries**. The scope is integrating knowledge, speeding up the implementation of **WEF Nexus modelling**, and capitalizing on project outcomes.

PROJECT PARTNERS



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WELCOME TO



Open Source Nexus modelling tools for planning sustainable energy transition in Africa

ONE MISSION

ONEPlanET aims to become the **Toolkit supporting energy decision-makers** in their day-to-day work. It will provide open-source tools, models and materials to help them to make informed decisions, considering social, economic and environmental parameters.

FOUR PILLARS



Building knowledge communities from existing partners' networks.



User engagement and co-design methodologies to build the ONEPlanET Toolkit.



ONEPlanET Model - Novel Nexus model for African continent.



Capacity Building Materials - A comprehensive capacity building approach.

WHY AFRICA

Africa's urbanization is up 90% in 20 years, **driving global energy demand**. Climate change worsens living conditions. Infrastructure, industry, and cooling solutions are needed for 1 billion in Sub-Saharan Africa. Africa must **double its energy supply by 2040** to meet social and economic needs.

WATER ENERGY FOOD

Africa's renewable energy potential exceeds the 2040 demand by 1000 times. The transition should **prioritize energy supply and pollution reduction** as well as **preventing resource conflicts**. A holistic **Nexus approach is vital** to secure water, food, sustainable agriculture, and energy production while acknowledging the interdependence of these sectors.

CASE STUDIES

The ONEPlanET concept, based on **3 diverse African case studies**, spans various river basins, and social, economic, and energy scenarios. These representative cases ensure broad project applicability, **advancing a just energy transition** in Africa, and **granting energy access** to communities while conserving resources and the environment.



Mali - Bani River (Niger Basin Area)



Malawi & Tanzania - Songwe River Basin



South Africa - Inkomati-Usunthu water management Area

APPROACH

ONEPlanET project unites researchers, policymakers, businesses, and civil society to **enhance collaboration** and knowledge exchange, aiming to **drive systemic change** across local, regional, and continental levels.