



LEAP-RE

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

Research & Innovation Action

Partner catalogue – find a partner for your consortium

Last update: August 12nd 2022



This project has received funding from the European Union's Horizon 2020 Research and Innovation Program under Grant Agreement 963530.



Table of content

- 1. Forms for partners looking for a partner in their consortium:..... 3
 - 1.1 University of Port Harcourt / Nigeria 3
- 2. Forms for partners looking for a project to join 5





1. Forms for partners looking for a partner in their consortium:

1.1 University of Port Harcourt / Nigeria

Date: 11 August 2022

Section 1 – I am looking for:

- A partner for my project
- In Europe
 - In Africa
 - In Europe or Africa
- A partner from the public sector
- A commercial company
- A project to join

Section 2 - Call Information: which MAR(s) do you address?

- MAR 1: Mapping renewable energy joint research and innovation
- MAR 2: End of life of renewable energy components
- MAR 3: Smart stand-alone systems
- MAR 4: Smart grids
- MAR 5: Productive uses of energy
- MAR 6: Domestic uses of energy

Section 3 - Your Organisation

Organisation name and location: University of Port Harcourt, Nigeria

Contact person: Dr Ogheneruona Diemuodeke

E-mail: ogheneruona.diemuodeke@uniport.edu.ng

Website: www.uniport.edu.ng

Description of the organisation (max. 100 words): The University of Port Harcourt is highly ranked in sustainable energy development and environmental sustainability. The university shares the vision of excellence in research in some of the African nations and helps them to play key roles in bringing solutions to the global climate crisis in the areas of energy and sustainable development. The university is an entrepreneurial university that is keen to transfer hard and soft skills in the energy system development space. The Department of Mechanical Engineering of the university houses the energy and thermofluids group that is focused on the research and development of innovative energy solutions.



Section 4 - Free Keywords:

Sustainable energy, hybrid energy, solar, wind, refrigeration, entrepreneurship

Section 5 - Project Description

The political livelihood of the coastal rural communities greatly relies on fish and seafood production. However, between 30-45% of the fish and seafood products do not get to the marketplace to support the rural community’s socioeconomic development because of spoilage arising from a lack of storage facilities. Therefore, the project seeks to design and develop an innovative clean energy system for the refrigeration of fish and seafood. The project will utilise the energy from sun and wind to power the refrigeration system that will be based on both vapour absorption and compression refrigeration technologies with novel cost-effective energy storage based on a water phase change mechanism without the use of batteries. The project will begin by conducting an in-depth renewable energy resource assessment, energy demand analysis and refrigeration technology mapping.

We are also available to join other consortiums in related fields.

Section 6 - Partner Profile Sought

Type of organisation: Academic Institutions, Energy Companies and Entrepreneurs

Required Skills and Expertise (if applicable):



2. Forms for partners looking for a project to join

