-Potential of Nano Grids as a Source of Affordable & Clean Energy for Zambia (1.9.2022-31.12.2024)

FINNISH NATIONAL AGENCY FOR EDUCATION

About the Project

The Nano Grids project aims at promoting competence growth by investigating the potential of Nano Grids as asource of affordable and clean energy in Zambia in line with the SDG 7. This project is a collaboration between **Novia university of Applied Science** & two Zambian HEIs- the **University of Zambia** & **Copperbelt University. The objective of the projects are achieved through the following activities 1-3;**

1. **Staff & Student Mobility:** To promote cultural exchange to enhance effective and sustainable partnerships

Novia visits Zambia

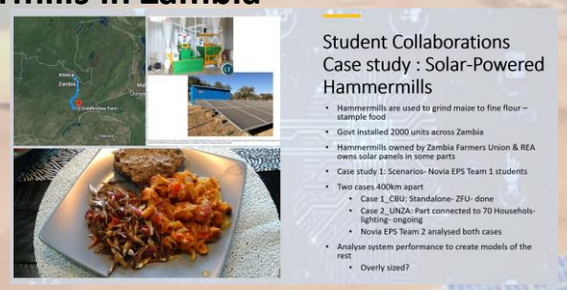
Zambia visits Novia

3. **Workshops & seminars**: Information dissemination
   - Knowledge exchange
   - Stakeholder engagement
   - Project reults

Closing Seminar: 13.12.2024

Energy for Zambia

2. **Peer-to-Peer Collaborations: Tudents Project- System Performance Analysis for Solar Powered Hammermills in Zambia**



Case study for students

EPS Students(Novia) meets students from Zambia

Project Results

- Student case study: SPHs are under-utilized
- Mobility: Development of new project idea- HEP SF-BioVac Project
- Education: Curriculum review for renewable energy- global south partners

Next steps: IoT in Energy Systems: Digital Twins as a tool for system optimizations

- Dependency on renewable energy sources in the energy mix
- Integration of energy systems

NOVIA UNIVERSITY OF APPLIED SCIENCES

COPPERBELT UNIVERSITY

UNIVERSITY OF ZAMBIA

BUDGET: 70 000 Euro

Contact: Cynthia Söderbacka
Cynthia.soderbacka@novia.fi
Novia University of Applied Sciences