Working in a broad partnership in the Kenya Miniwind Project

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Kenya Miniwind

Long term objective
To stimulate economic growth, poverty reduction, and sustainable energy supply in rural areas in Kenya.

The immediate objective
To create local employment and reduce the cost of electricity which will favour disadvantaged communities in rural areas:

- by facilitating partly local production of low-cost wind turbines and
- by demonstrating integration of these turbines in private and publically owned mini-grids in Kenya.

Impact
The project will contribute to Global Sustainable Development Goal (SDG) 8 through stimulated economic growth in rural communities and in a labour-intensive wind energy sector.

In addition, the project will contribute to SDG1, SDG2, SDG3, SDG4, SDG7 and SDG9.
Public private collaboration

Sustainable Energy

- Mini-grid developers
- Wind turbine developer (Vestas)
- Local suppliers

Civil society

- Rural Electrification Agency
- Ministry of Energy
- Energy Regulatory Commission

Government

Public knowledge institutions

- Kenya Climate Innovation Centre
- Technical University of Denmark
  - Unep DTU
  - DTU Wind
  - DTU Electro

Private companies
Project outputs

• Enabling framework and market creation for mini grids with wind power supported by relevant Kenyan authorities
  – Market study, enabling frameworks, need for standards

• Local community requirements to mini-grids with wind power
  – Feasibility studies, community dialogue, model for expansion

• Capacity of mini-grid developers and local SMEs to integrate and produce wind turbines enhanced
  – Partly local production, suppliers, decision making tool, training of stakeholders

• Wind turbine designed, demonstrated and tested
  – Vestas design, demonstration, business model, contracting, maintenance, monitoring.
So why should we engage in this as a university?

Part of DTU's strategy
• Scientific advice to national authorities
• Innovation and industry collaboration
• Sustainable development goals

What we already do: (research and advice)
• Policy frameworks, modelling, planning
  – RE, Mini-grids
• Wind mapping, modelling
• Smart grids, RE-integration
• Working with industry, governments, Universities and NGOs
• Working across departments (REPLI)

What is new?
• Working under leadership of a Danish NGO
• Working with a private company in a developing country context
• Being close to implementation in developing countries

What are the benefits?
- Bringing research into practice
- Bringing practice into research
- Bringing different cultures and perspectives together
- Great potentials to make a difference
Thanks for your attention