

- The energy balance of Lesotho is characterised by *huge dependence on biomass* fuels to meet the basic needs of cooking and space heating by the majority of the population in the rural areas...

Lesotho Energy Policy 2015-2025

- 70% of Basotho use biomass as the main source of energy for cooking and space heating (NSDP)
- ... **>300 days of sunshine/yr (TNT Lesotho: Michael L. Mhlanga 2004)**

Fuel wood gathering in Lesotho



Ha Mosali oa Mosotho

At the household of a Mosotho Woman





*Mostly
Basotho cook
like this also
indoors
exposing
them to
indoor air
pollution
costing the
country in
many forms*

Is this Sustainable?





Yet we have

- ≥ 300 days of sunshine/yr
(*TNT Lesotho: Michael L. Mhlanga 2004*)
- Lying between latitudes 28 & 31 in the south, LSO has long hrs of sunshine & more than 300 days of sunshine. (*Dr Taele NUL-Solar Exhibition 2011*)

What do people in the rural areas use for lighting?

- Candles
- Paraffin lamps
- Open fire

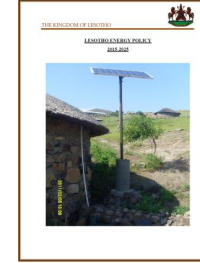
Many Basotho children are unable to read in the evening for fear of fire that may be caused by a candles



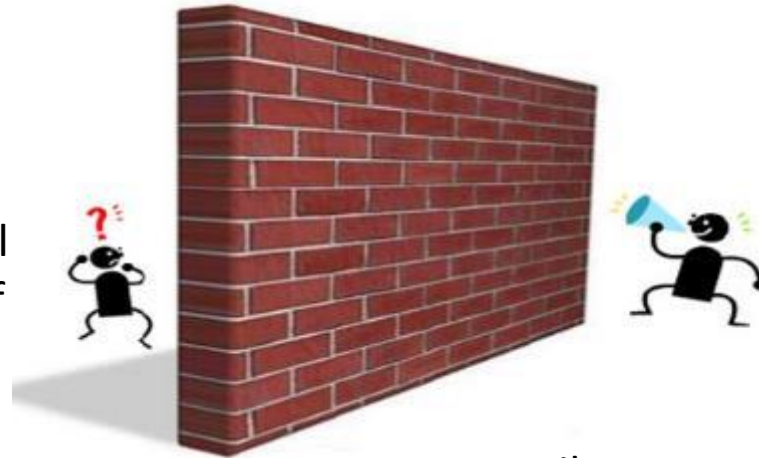
Barriers in the translation of Research into practice

Failure to link Research, Innovation and Sustainable Development

Failure to put implement Policies



Detaching ourselves from Societal Problems and leaving problems of the poor to themselves



Government Failure to invest in Research to Development

Failure to put implement Policies

Failure to understand roles of different sectors in society to tackle challenges we are faced with



EPP-TED Biogas Project in Berea implementing contributing to Sustainable Energy and Development – **Only lacking Research**

Kopanang ka Lerato Basali ba Patlong

They need energy Research in efforts to adapt & to improve livelihoods!



How can research help solve the challenges of the poor? They are our challenge



Reminder!



SUSTAINABLE DEVELOPMENT
is generally understood as:

Meeting the needs of the present
generation without compromising the
ability of future generations to meet their
own needs

(Brundtland Commission, 1987, p43).

Lesotho Energy Policy (Vision) & SDG 7

Vision of the Lesotho Energy Policy



*Energy shall be universally **accessible** and **affordable** in a **sustainable** manner, with minimal negative impact on the environment*

Energy Policy Goals

- 1. Contributing towards the improvement of livelihoods*
- 2. Contributing towards economic growth and investment*
- 3. Ensuring security Supply*
- 4. Contributing towards the protection of the environment*