

# **Renewable Energy**

## **and the**

# **Harambee Prosperity Plan**

# **Infrastructure Development**

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 **VVO CONSULTING**

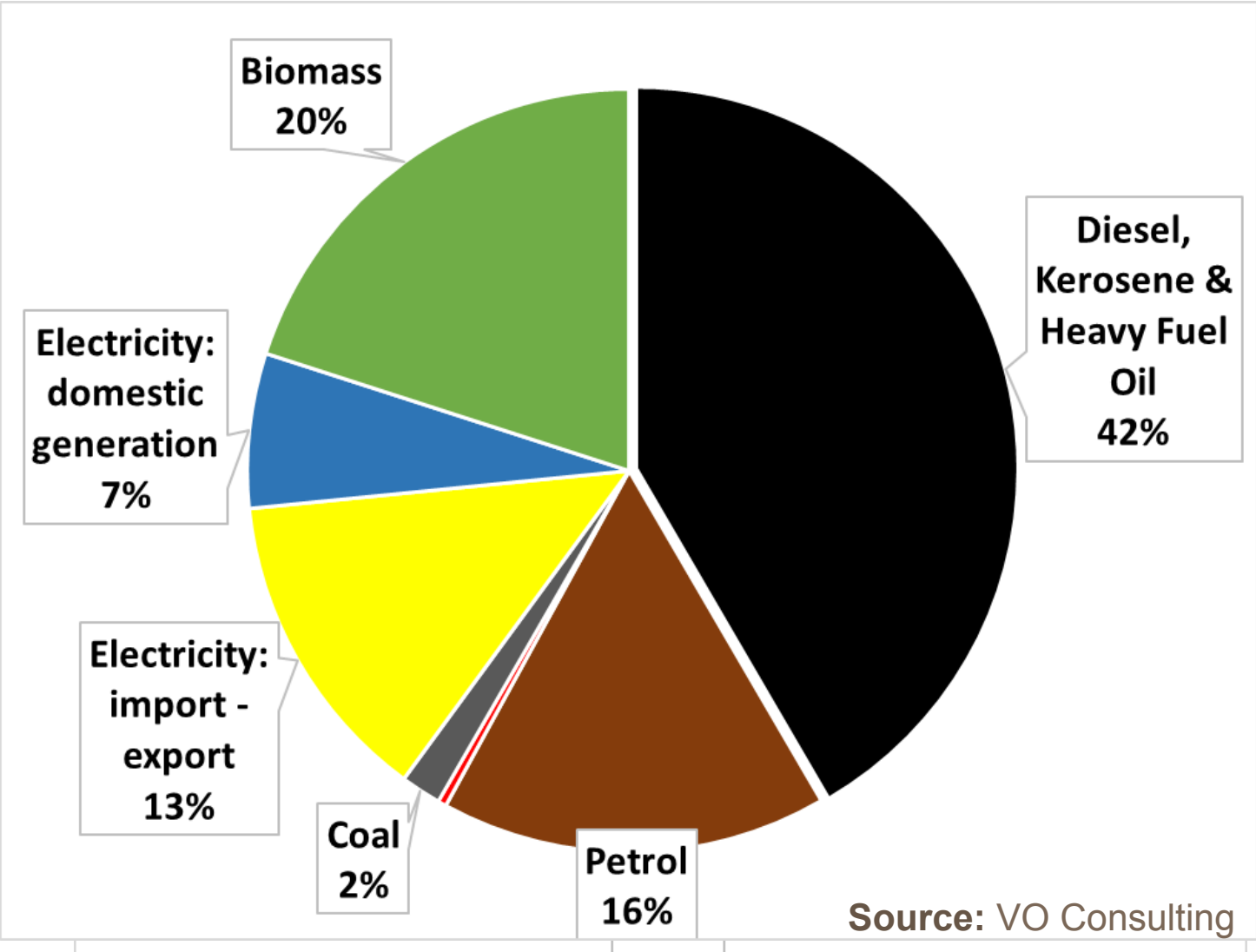
# HPP Pillar 4

## *Infrastructure Development*

- **Energy**
- **Water**
- **Transport**
- **Information & Communication Technology**

***Energy is a pre-requisite and critical enabler of socio-economic development.***

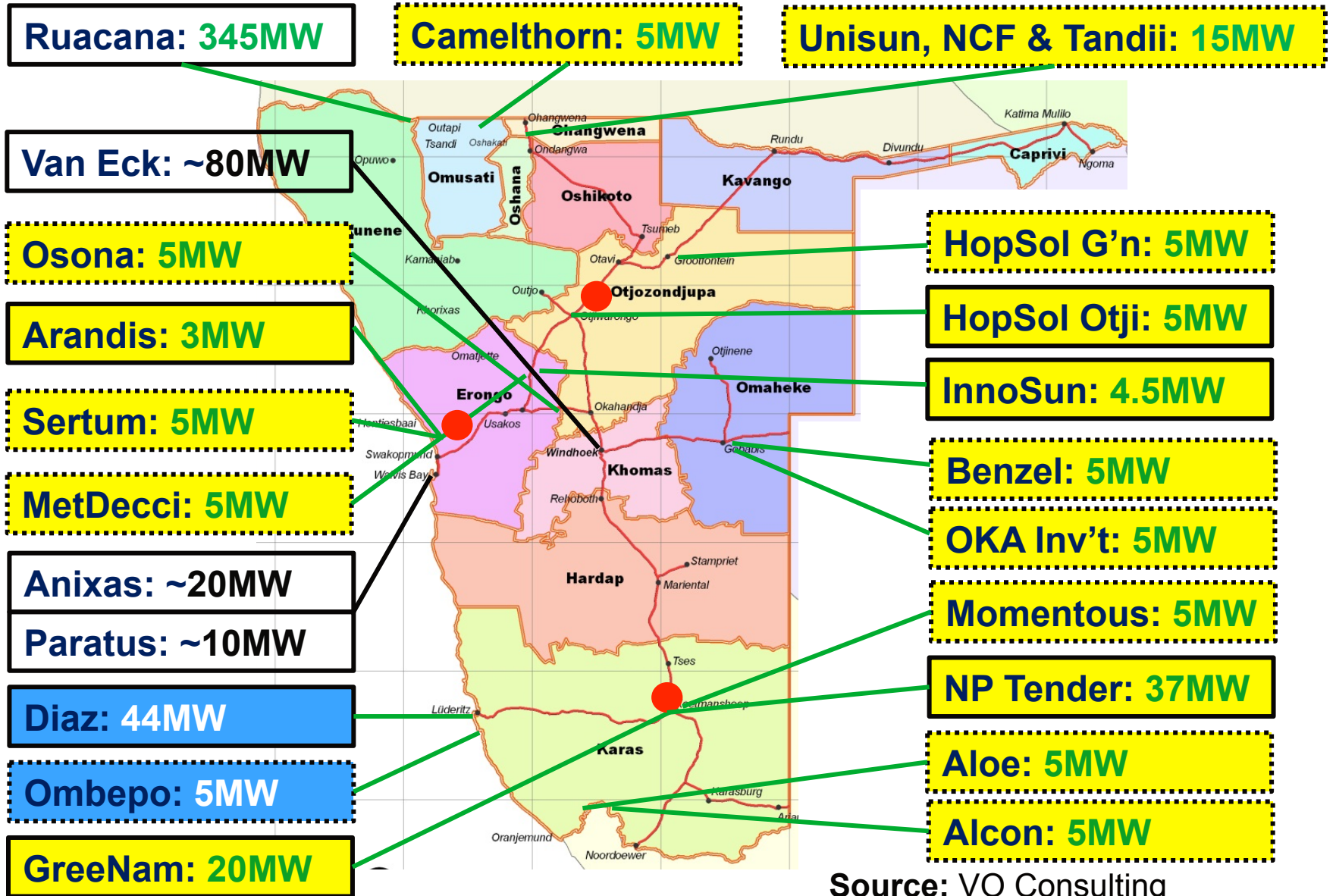
# Namibia's Current Energy Use



# HPP 11: Energy Goals & Outcomes

- 1. Increase in local electricity generating capacity from 400MW to 600MW*
- 2. Provision of electricity to all schools and health facilities by 2020*
- 3. Increase in the electrification rate from 34% in 2015 to 50% by 2020*

# HPP 11: Increase Gx Capacity to 600MW



Source: VO Consulting

# HPP 11: Electrify all schools & health fac's

**~ 640 schools & health facilities to be electrified (2010)**

**MME budget for rural electrification: N\$67m (2016)**

**At N\$ 350 000 per solar electrified school:  
~30% of total to be electrified per year**

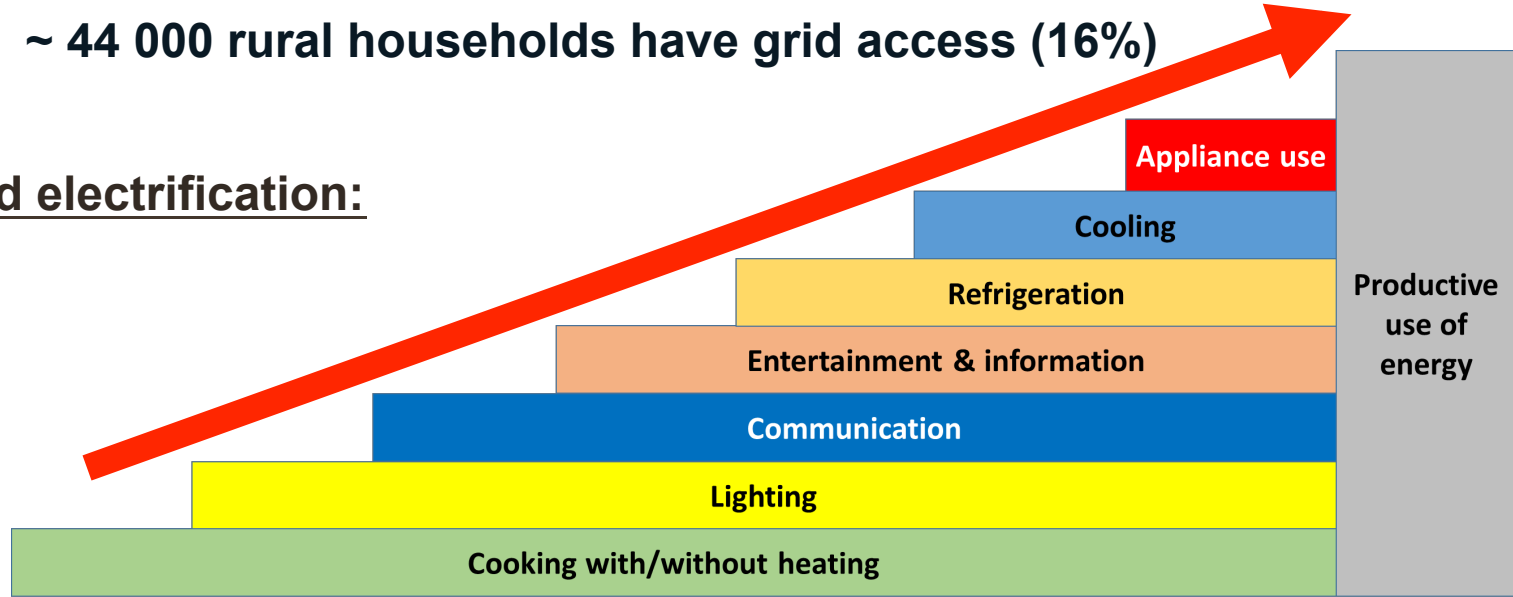


Source: Solar Age Namibia

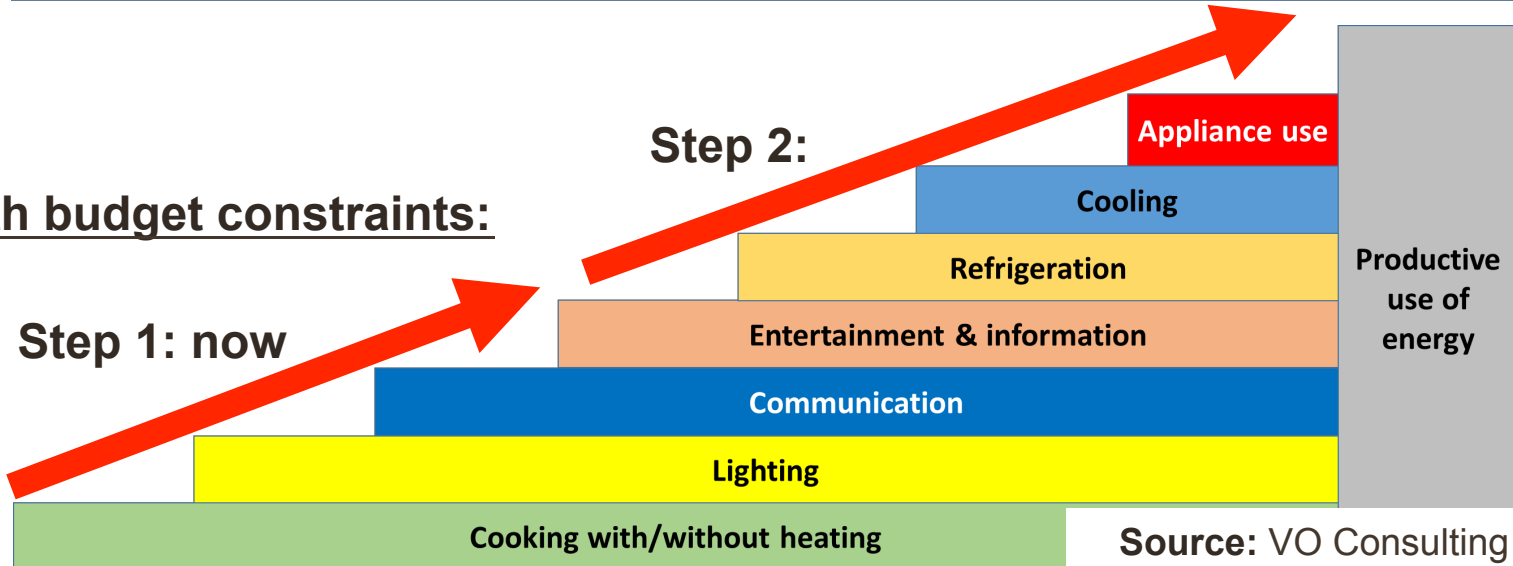
# HPP 11: Increase electrification rate to 50%

- ~161 000 urban households have grid access (~70%)
- ~ 44 000 rural households have grid access (16%)

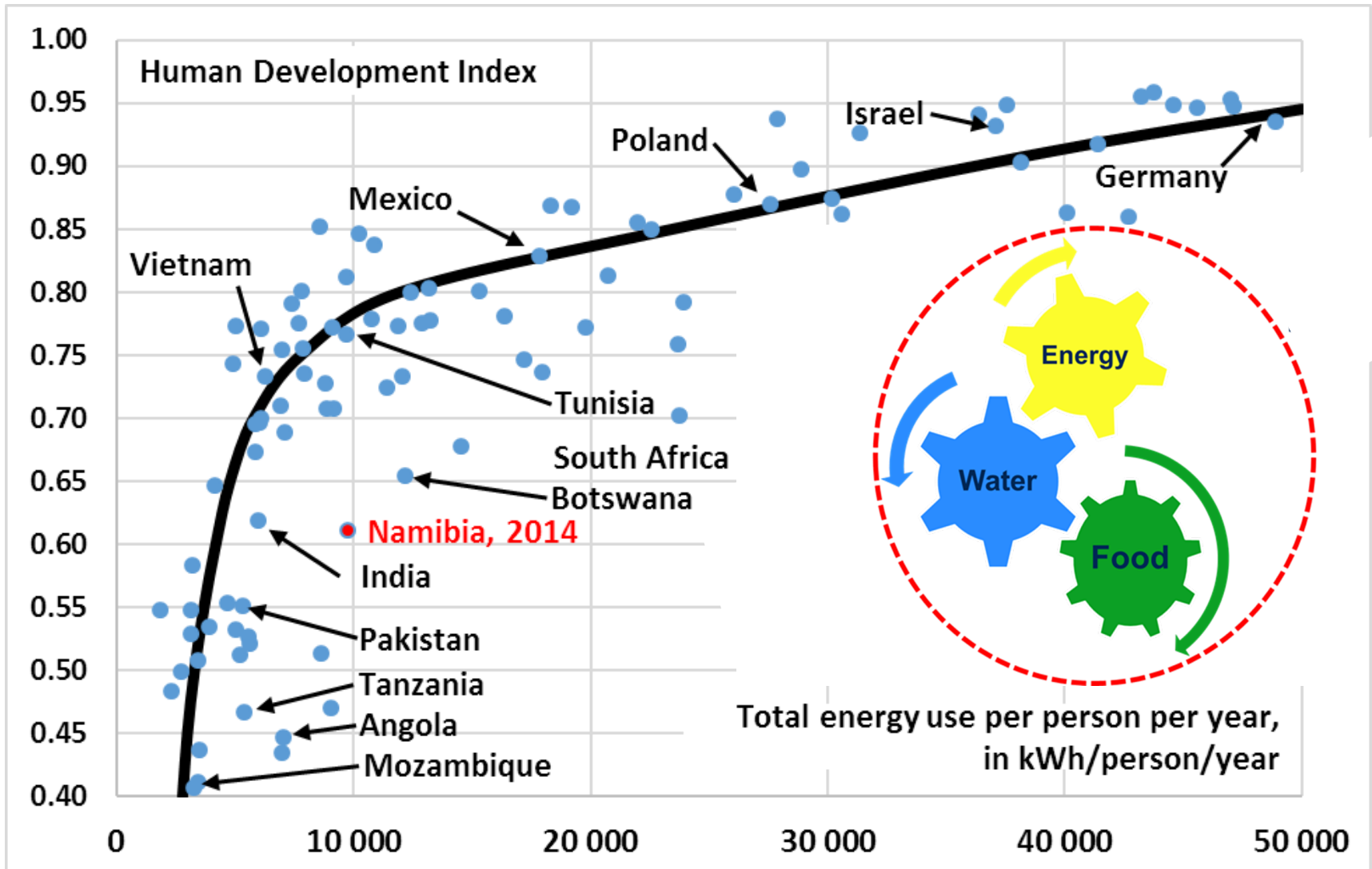
## Grid electrification:



## With budget constraints:



# We do not *eat* energy, but...



Source: VO Consulting



# Conclusions

- *National development is energised by coupling people into the economy.*
- **Access to affordable energy is key for socio-economic advancement.**
- RE technologies can provide quality access to energy, while EE technologies can enhance the prudent use of resources.
- *The modularity of RE and EE technologies creates opportunities for private sector participation – we can expand capacities as we need them.*
- Our local RE assets are here to stay. In time they can become the backbone of our national sustainable development efforts.

**Thank you!**

**Dr Detlof von Oertzen**

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