

GNF Conference, Energy and Water Solutions in Sub Saharan Africa

Modern Development Cooperation Between Europe and Africa
Murefu Barasa, EED Advisory Limited
Radolfzell, Germany: October 16-17 2014

Introduction to EED Advisory



- EED is an advisory firm with services offerings in the energy and environment space delivered through four practice lines:
- We aspire to be a premier <u>solutions center</u>



SUSTAINABLE ENERGY

An estimated one-half of the world's population still lacks clean cooking and heating options and almost one-quarter do not have access to grid based electricity. At EED, sustainable energy goes beyond renewable energy solutions

Learn more >



CLIMATE CHANGE

The concentration of carbon dioxide in the atmosphere exceeded the 400 parts per million threshold in 2013. Without drastic and urgent action it seems likely that the earth will experience a temperature rise of up to 50C by 2100

Learn more >



NATURAL RESOURCE

Competition for natural resources is a common trigger for communal, sectoral, national and international conflicts. At EED, we take a systems approach in evaluating

Learn more >



COMMERCIAL PROJECT DEVELOPMENT

At EED, we believe in the power of demonstration. We are constantly designing, testing and refining innovative business models that will deliver sustainable energy and other

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Introduction to EED Advisory: Clients















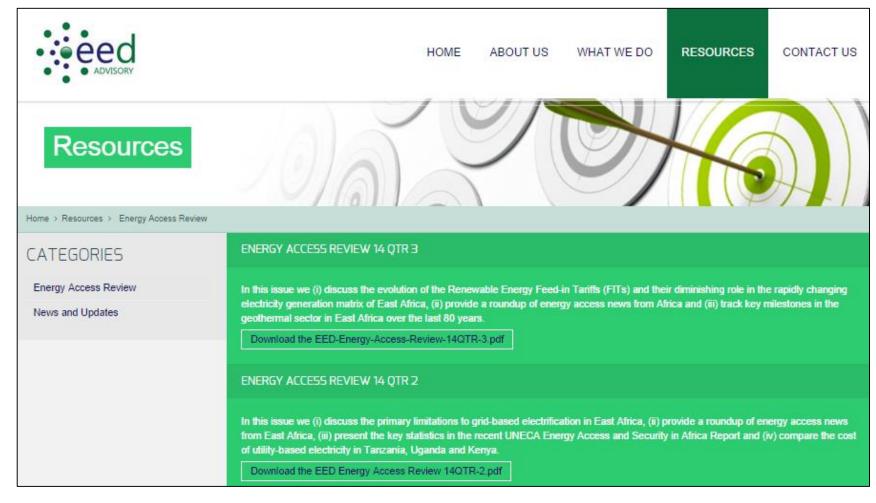






Introduction to EED Advisory: EAR





http://www.eedadvisory.com/resources/energy-access-review/

The Tale of Two Professors...

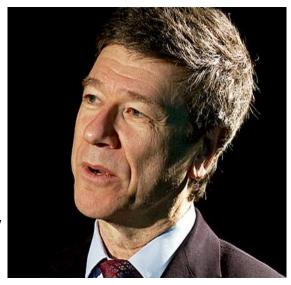


"...the West's efforts to aid the rest have done so much ill and so little good." "... the rich need to invest enough so that these countries can get their foot on the economic ladder."



Prof. William Easterly, New York University, "Whiteman's burden"

> Prof. Jeffrey Sachs, Columbia University, "End of Poverty"

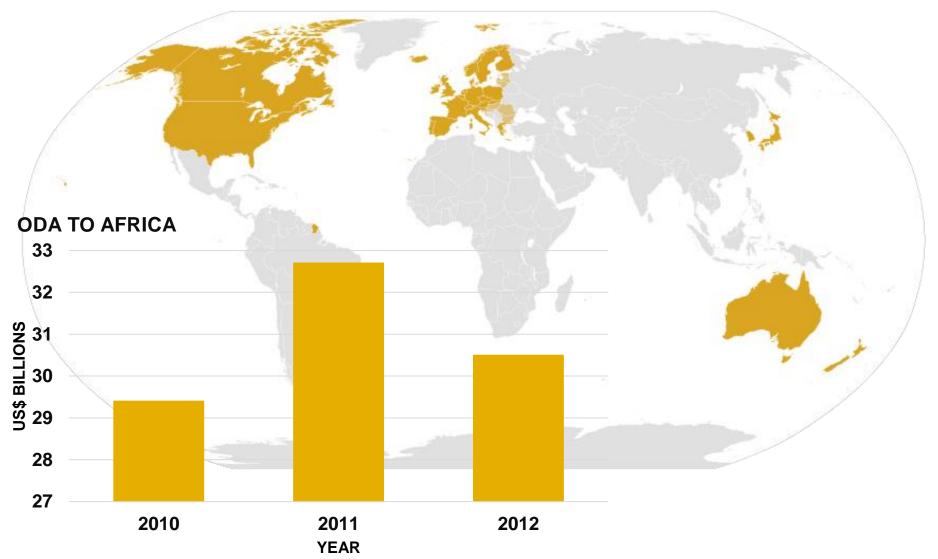


Picture credits: http://www.guardian.com/

Current Cooperation in Numbers

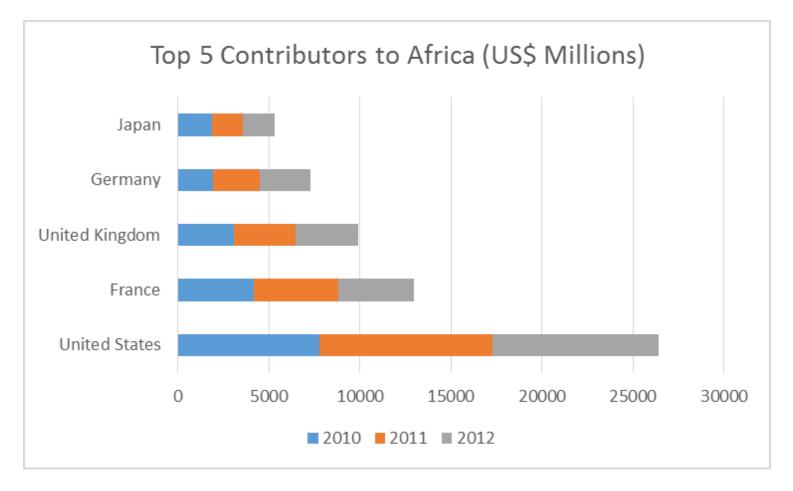


Source: OECD (2014) Development Statistics at a Glance: Africa



Current Cooperation in Numbers

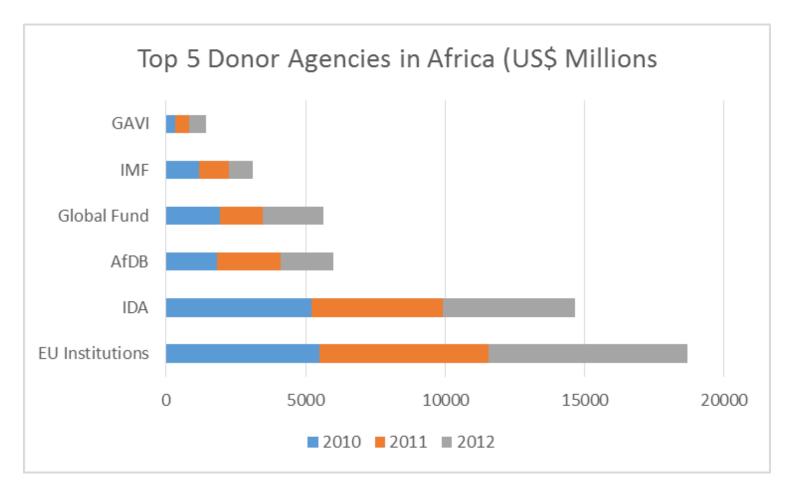




Source: OECD (2014) Development Statistics at a Glance: Africa

Current Cooperation in Numbers



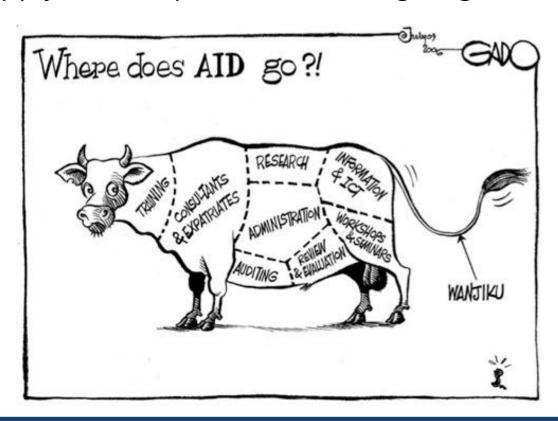


Source: OECD (2014) Development Statistics at a Glance: Africa

Current Nature of Cooperation



- 1. Top down initiatives e.g. green growth strategies, minigrids, national climate change legislation.
- 2. Tethered assistance e.g. technical assistance, equipment supply, service provision, leading to general skepticism



Current Nature of Cooperation



3. Opportunities for experimental blue-sky initiatives that results in great successes e.g. investment in the geothermal exploration in Kenya in the 1950s and 1960s



Current Nature of Cooperation



4. Driven by "crisis narratives" and trends e.g. woodfuel crisis of the late 1970s, briquette for charcoal, current discourse on mini-grids

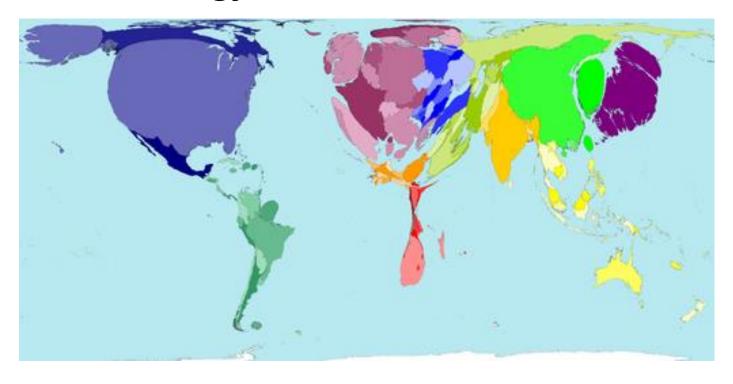


Source: http://www.postconflict.unep.ch

Cooperation in the Energy Sector



An energy starved continent...

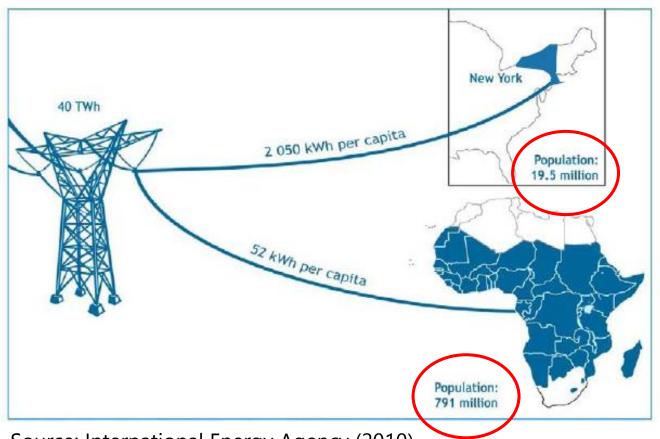


Source: http://www.worldmapper.org/display.php?selected=117

Cooperation in the Energy Sector



Total Electricity Use Per Year



Source: International Energy Agency (2010)

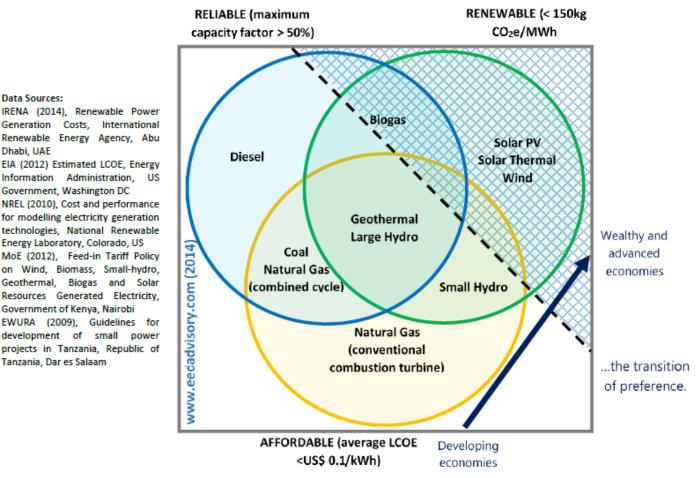
Cooperation in the Energy Sector



Stylized Preference of Electricity Generation Options

Data Sources: IRENA (2014), Renewable Power Generation Costs. International Renewable Energy Agency, Abu Dhabi, UAE EIA (2012) Estimated LCOE, Energy Information Administration, US Government, Washington DC NREL (2010), Cost and performance for modelling electricity generation technologies, National Renewable Energy Laboratory, Colorado, US MoE (2012), Feed-in Tariff Policy on Wind, Biomass, Small-hydro, Geothermal, Biogas and Solar Resources Generated Electricity. Government of Kenya, Nairobi EWURA (2009), Guidelines for development of small power

Tanzania, Dar es Salaam



Source: EED Advisory (2014) Energy Access Review QTR 3

Three Suggestions



1. Not substituting aid with trade, but targeting aid that spurs trade and entrepreneurship





Three Suggestions



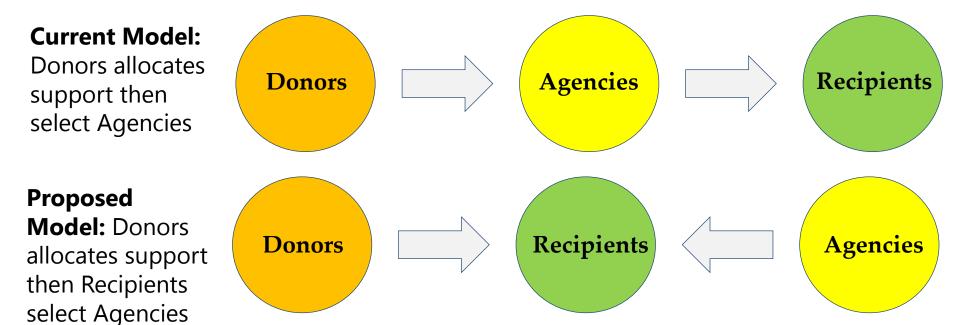
2. Cultivate peer to peer relations: Most people are moving away from the "West is to blame" notion



Three Suggestions



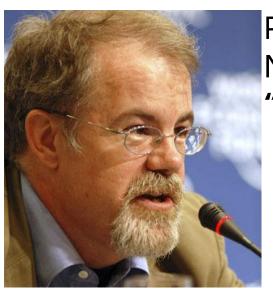
3. Reorient the feedback loop: Decision making power to the recipients countries



The Tale of Two Professors...

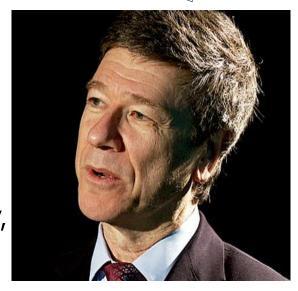


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Thank You!