

## Dr. Horst Kreuter / Geothermal Power Tanzania Ltd

# Experience in East Africa and the Need for Global Classifications and Reporting Standards

Press articles from August 2014

Blessed with the potential to generate **over 4,000 megawatts** in Tanzania !

Vice President of Tanzania & Minister of Energy and Mines, Tanzania

Bond sale for the construction of a **150 megawatt** geothermal plant!

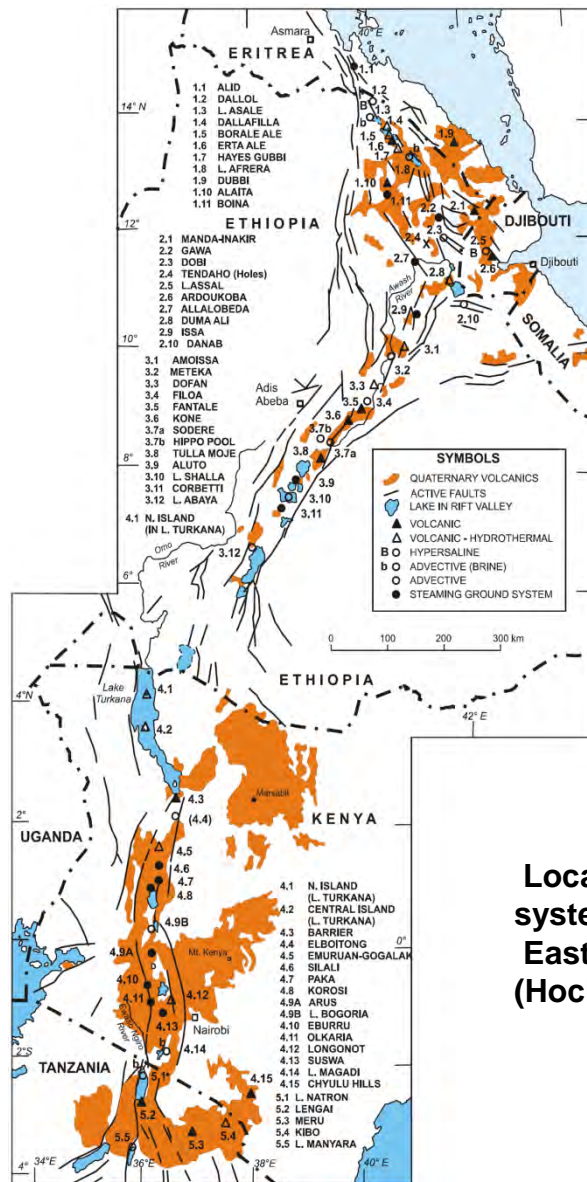
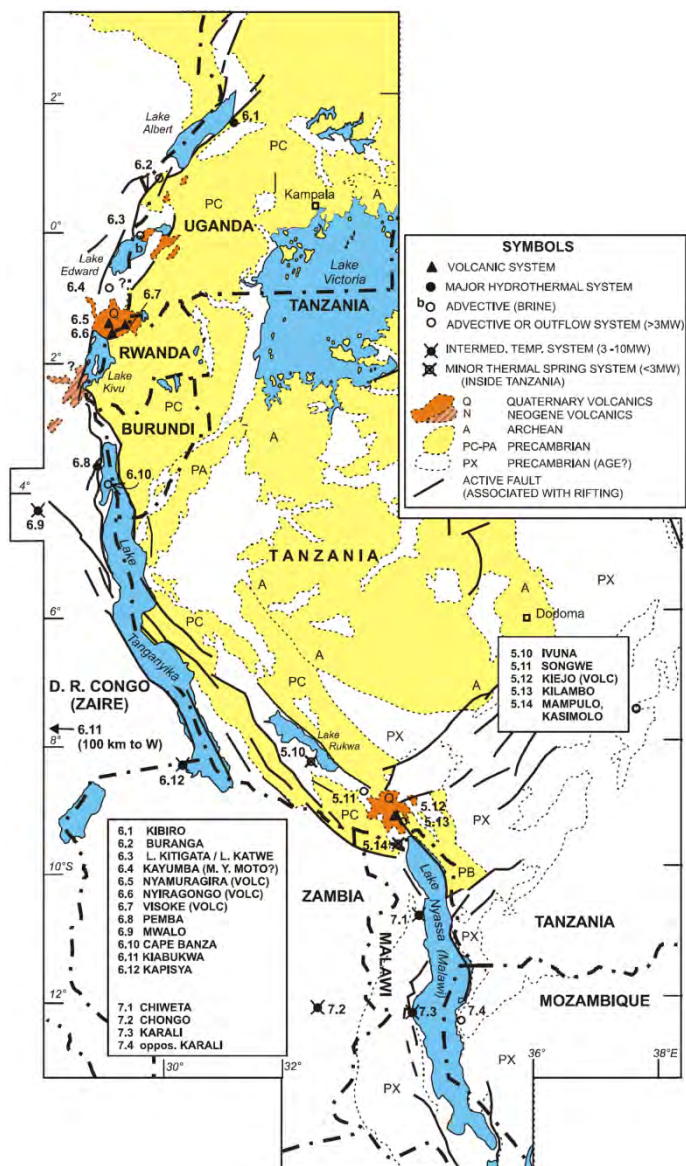
President of Rwanda

## Geothermal Potential in MW el.

### Spatial distribution of resource potential in the EARS

Country	N-M-S	E - W	McNitt 1982
			[MWel]
Djibouti	N	E	500
Ethiopia	N	E	4600
Kenya	N/M	E	1700
Tanzania	M	W/E	650
Uganda	M	W	450
Rwanda	M	W	100
Burundi	M/S	W	50
Zambia	S	W	50
Malawi	S	W	50
Mozambique	S	W	25

# Spatial Distribution



Location of major geothermal systems along the East African Rift System (Hochstein 2005).

## Potential Tanzania

### Consequences of the spatial distribution of geothermal resources in the EARS

- Resource Type
  - Magmatic/Volcanic -- Structural -- Sediment Basins
- Technology
  - Steam Power Plants -- Binary Power Plants
- Geophysical Exploration Methods
  - MT -- Other geophysical Methods (Seismic, Gravity,...)
- Temperature
  - < 100°C – 100 – 200°C -- > 200°C
- Size of Power Plants
  - Steam > 20 MWeI -- Binary < 20 MWeI
- Price
  - < 10 USct/kWh -- > 10 USct/kWh

# Global Classification and Reporting Standards

- Beneficiaries of Standardization
  - Governments
  - International Institutions
  - Funding Agencies
  - Investors, Listed Companies

- Requirements
  - Global
  - Standard
  - Accepted

- Main Elements
  - Resource Classification
  - Reporting Codes
  - Resources and Reserves Quantification