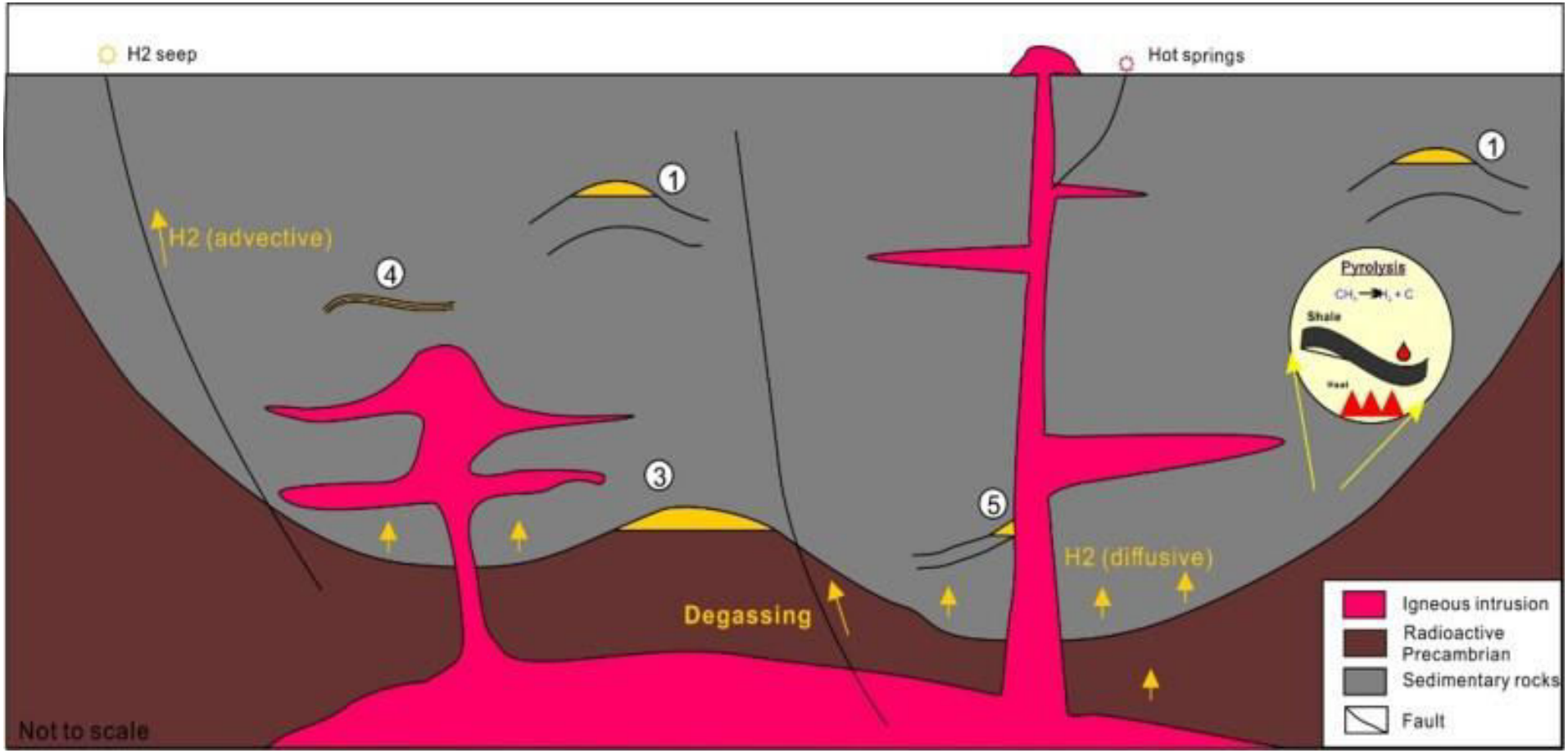


Geothermal – H_2 & He

Nov 2026

GPS! Green Power Solutions

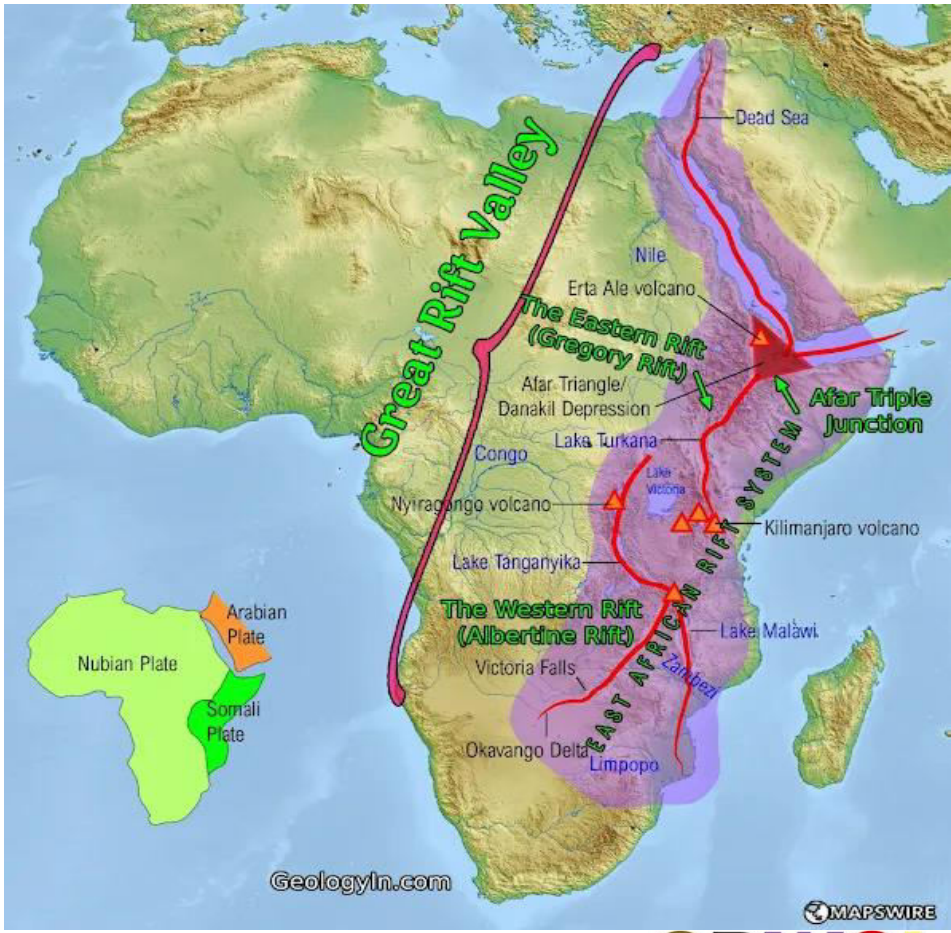
Thermo House

GPWS! Green Power Water Solutions

Geothermal in Africa

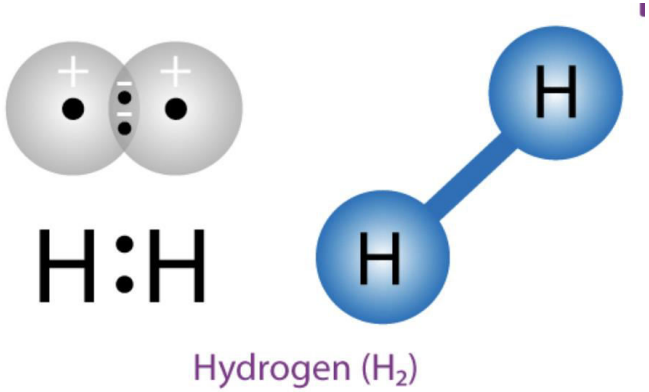
- There are only a few Geothermal electricity sites in Africa: Ethiopia (1) Kenya (5-6), Tanzania 1

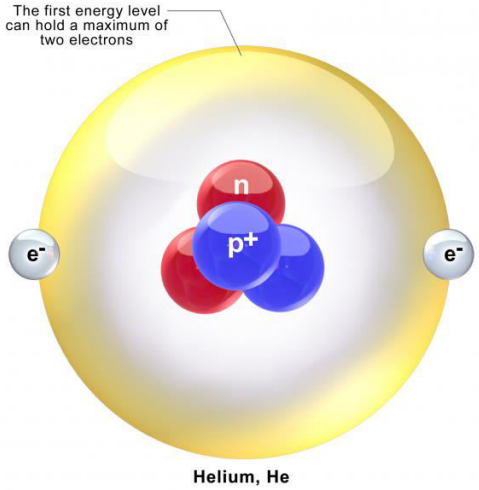
- However, there are many sites, especially along the East Africa Rift Valley, suitable for Geothermal projects.



H_2 and He at Geothermal Sites

- After studying the Chemistry analysis of the water at most Geothermal sites we know of in Africa, we have come to the conclusion that possibly all geothermal sites contains various concentrations of Hydrogen and Helium.

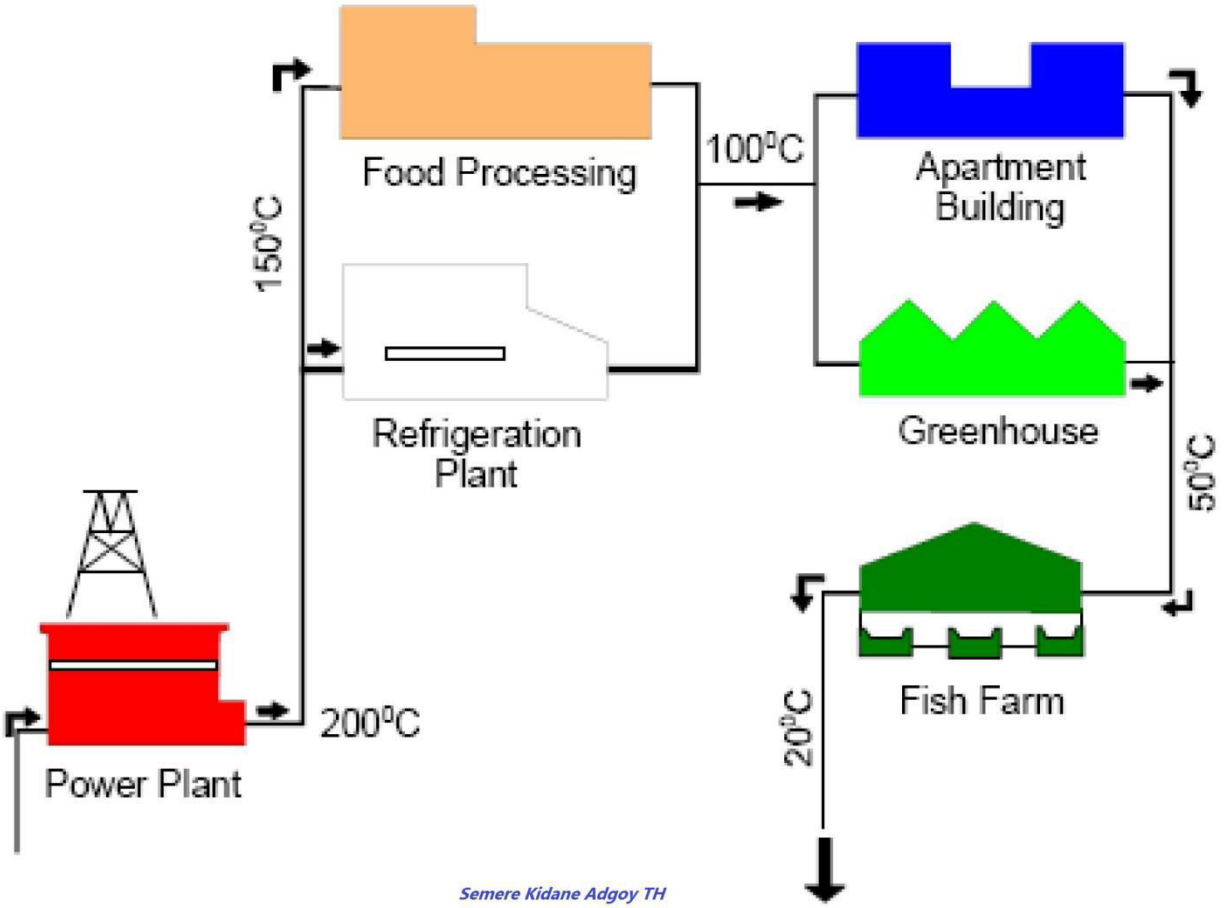




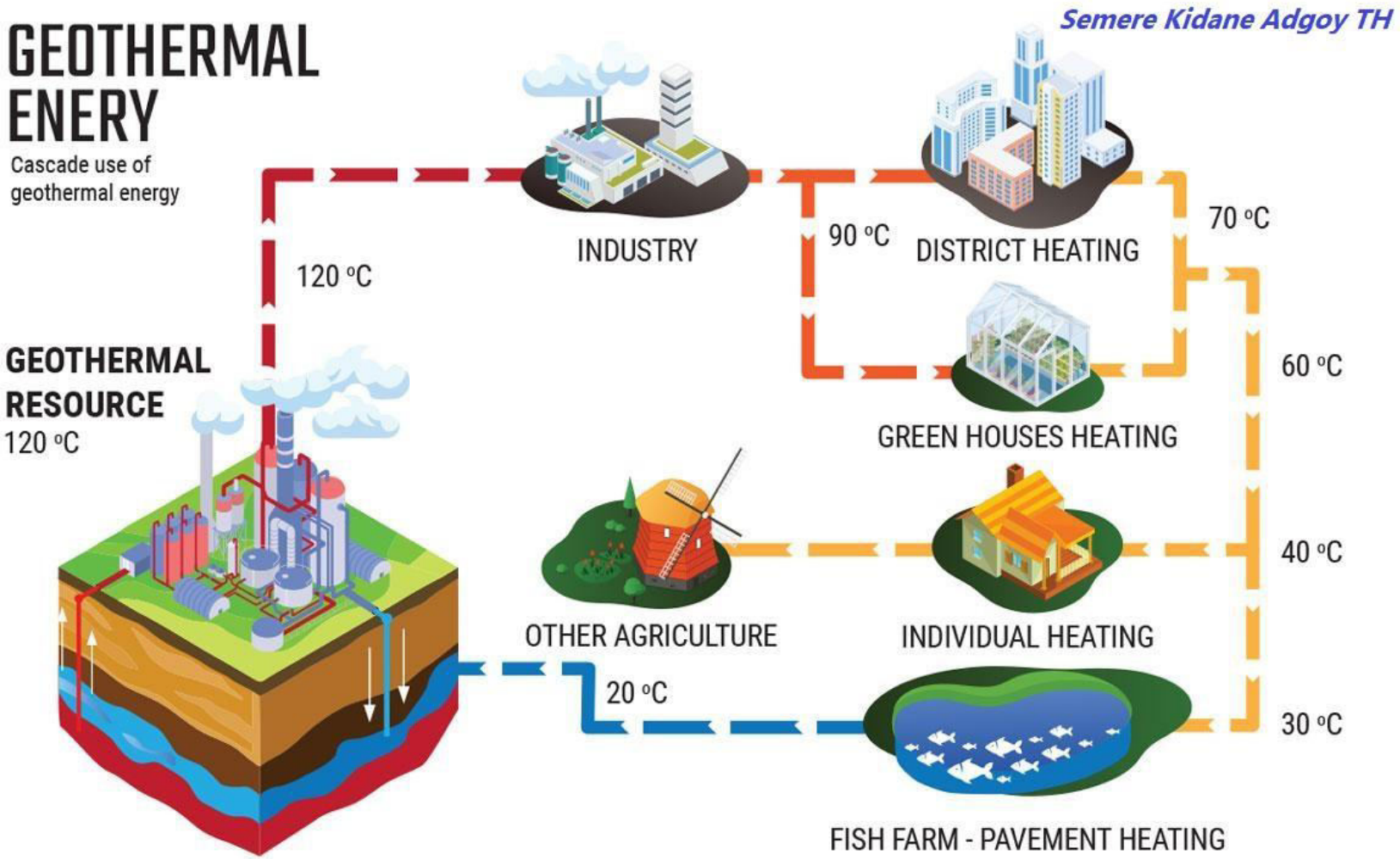
Commercial Utilisation of Residual Geothermal Heat as a Secondary Revenue Stream

- Aquaculture
- Industrial food dehydration
- Drying fruits and vegetables
- Heating water for showers and swimming pools, steam baths, greenhouses and other commercial heating applications
- Introducing suitable absorption or adsorption cooling technology, it may be possible to use the remaining thermal energy to operate refrigeration and cooling systems.

Cascading to Maximize use of the Geothermal Energy



Integrated Geothermal Energy Hub



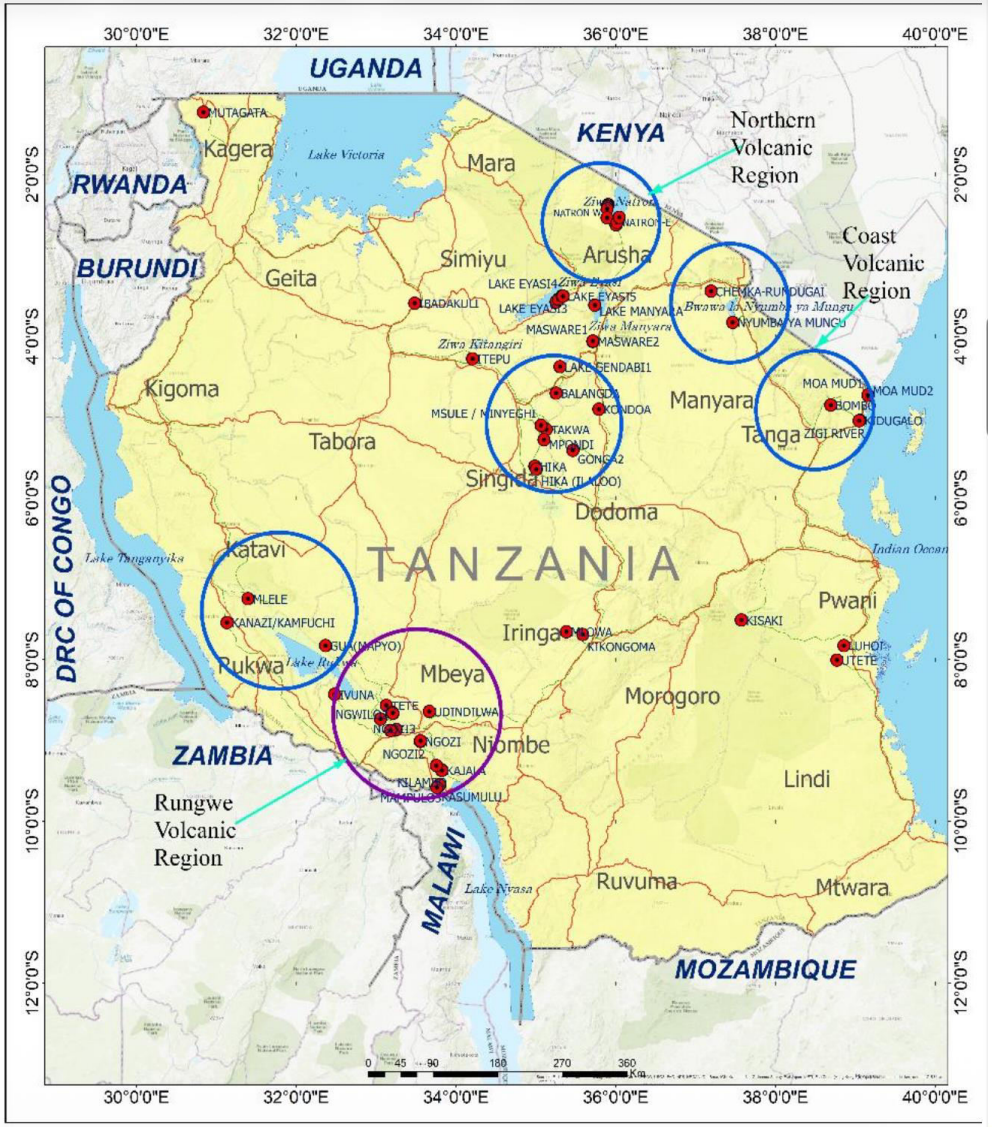
Geothermal Resources in Tanzania

Potential

- ✓ 5000MW –Electricity
- ✓ 15000MWt – Heat

Over 50 potential sites

- Different geological settings
- Low – Medium (30 - 150°C): sedimentary, fault controlled;
- High(≥150°C): volcanic systems.



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Way Forward

- Right to develp a site – EOI, MoA with owner of the site
- Feasibility Study starting with verifying the heat & concentration of H_2 and He.
- Bankable Business Plan (including EISA and all necessary permits).
- Funding and Implementation

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