



## In Country Geothermal Focus

March 2023



TOZZIgreen

# Introduction of Tozzi Green

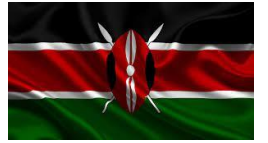


Tozzi Green group operates in the international market in 5 different countries, with a consolidated focus in Italy, Madagascar, Peru and in respect to East Africa a recent decision for opening a new branch in Nairobi-Kenia. Tozzi Green is particularly active in renewable energy projects on Large and Medium scale National grid projects but also in rural electrification projects with an integration and socially based investment philosophy.



Tozzi Green is one of the major players in the energy production market, with a history written by three generations of the Tozzi family. Our portfolio of plants constructed include wind farms, biomass and biogas installations, hydroelectric power stations and photovoltaic installations in small, medium and large sizes and now Geothermal. The integrated management of all aspects of plant development and construction sets Tozzi Green apart from other EPC contractors, guaranteeing maximum reliability.





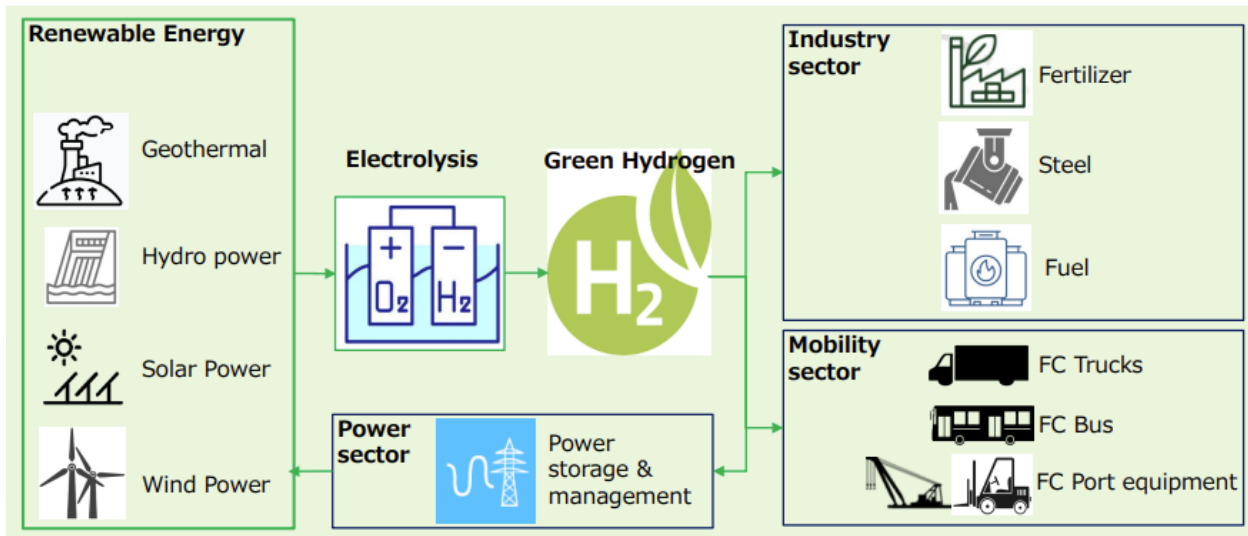
### Our current Focus

- ❖ Establish **strategic collaboration** in Green hydrogen harnessing on availability of Geothermal Power in Kenya
- ❖ Implement **HFO Thermal-Geothermal Energy Swap Program** in collaboration with Government of Kenya.

# Hydrogen Focus

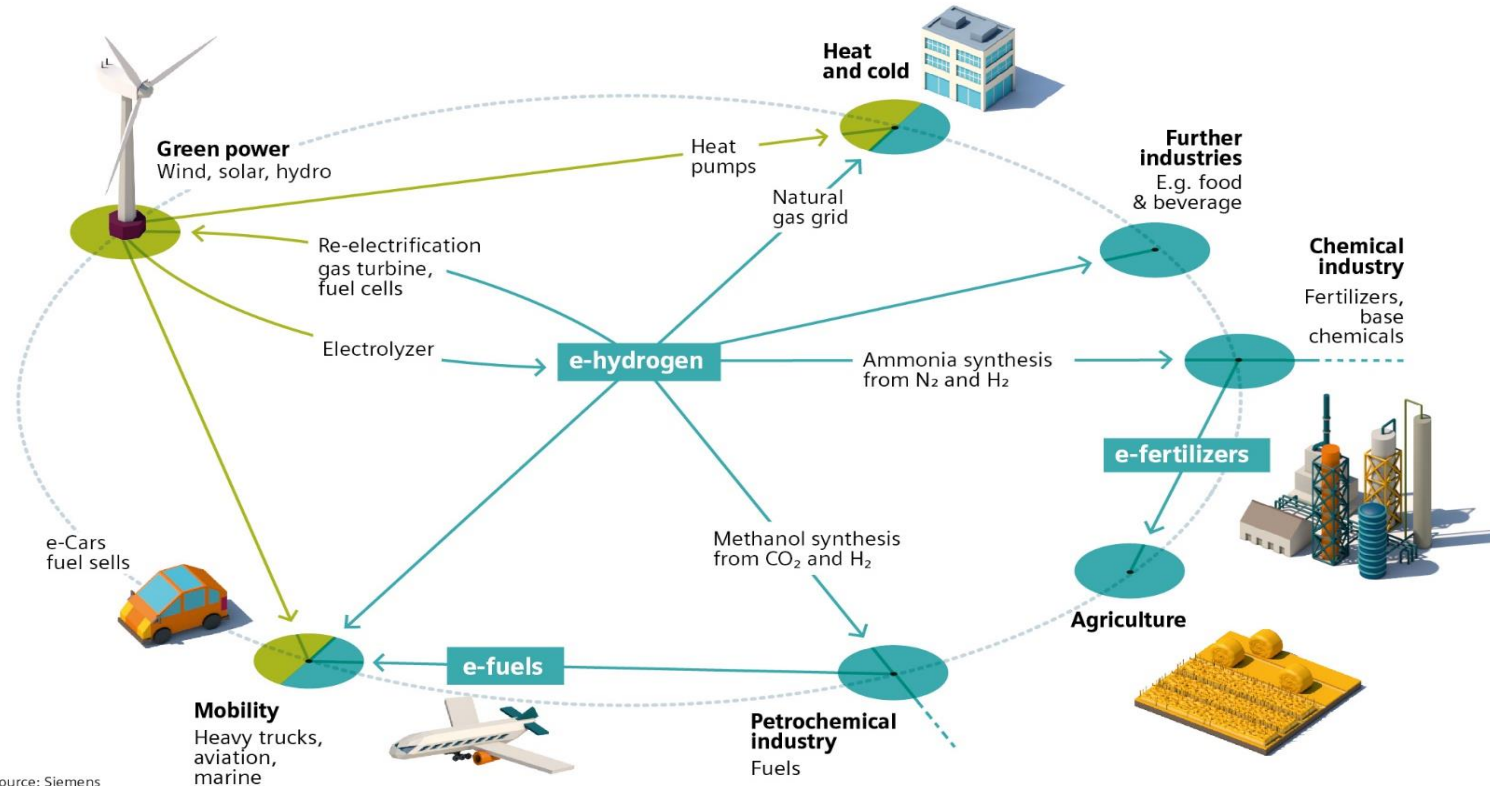
This project aims to contribute to exploring actual projects to materialize the Green Hydrogen strategy and roadmap of Kenya. Specifically, this FS project will

- Analyse the competitiveness of green hydrogen production,
- Formulate pilot project proposals in various sectors, and
- Compile policy proposals essential to realize the feasibility

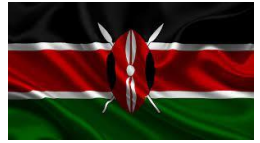


# Hydrogen Focus

Pathways ■ Electrical ■ Chemical



## Thermal Production & High Energy Tariff-Problem Statement



Kenya's relatively high power costs starts with a review of how this power is purchased, focusing initially on PPAs entered into between KPLC and IPPs. IPPs supply 25% of KPLC's power, but account for 47% of KPLC's power purchase costs, while KenGen supplies 72% of KPLC's power, but accounts for 48% of KPLC's power purchase costs.

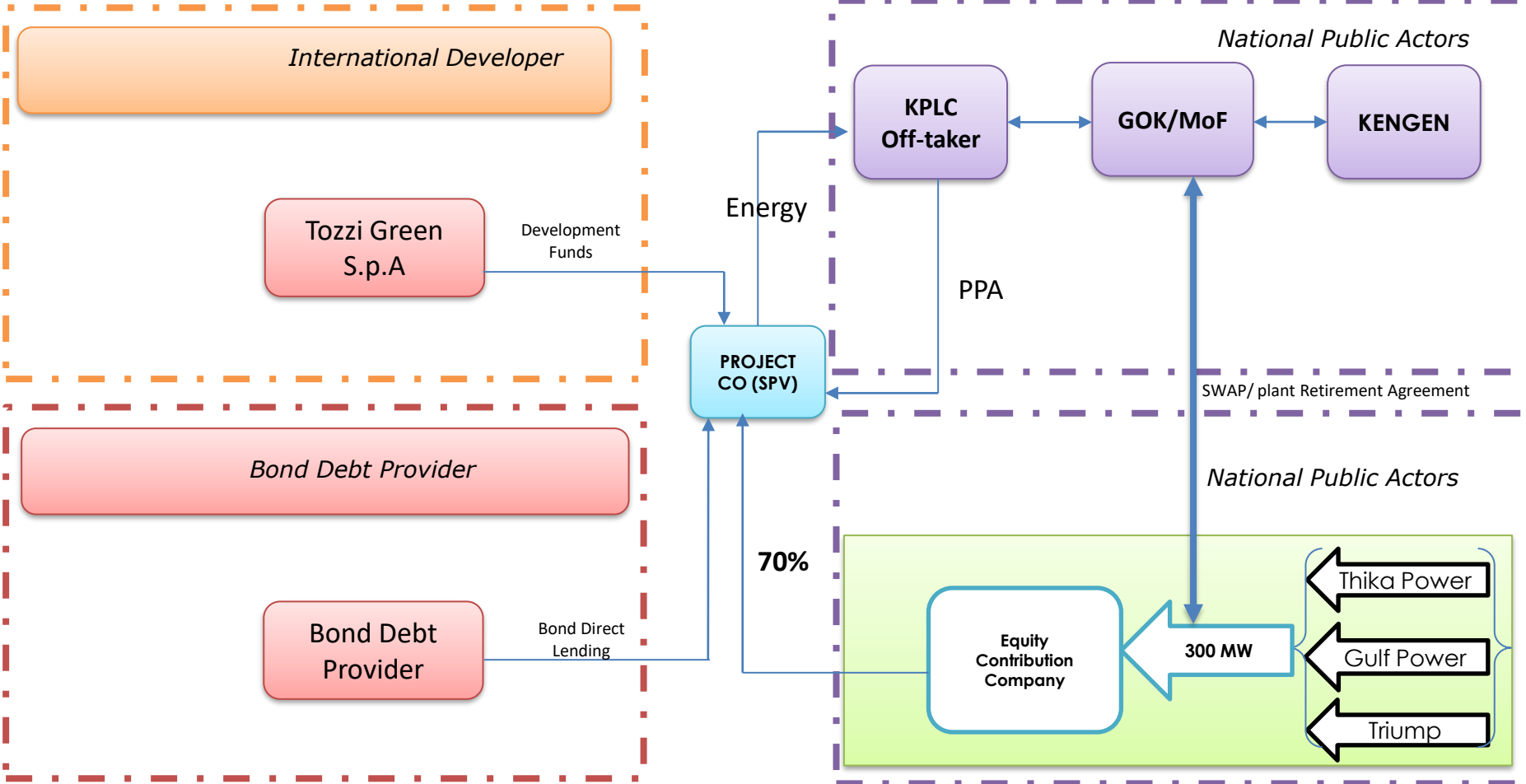
HFO, which costs KPLC KES 12 billion annually, for the thermal based power purchase varying in pricing between stations of between 10% and 60%.

The HFO thermal IPPs, which were initially built as base load plants, and are on a Take-or-Pay basis cost KPLC USD 20 million to USD 25 million annually on idling only.

By eliminating HFO thermal generation, Kenya will be sequestrating 9.32(MtCO<sub>2</sub>e) GHG Emission from environment.

Tozzi desire to partnerw with Kenya Government in realise this dream through the swap Program.

# Project's Model & Legal Structure Summary





**Thank You.**

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