

# Helium Appraisal and Development Opportunity

## Onshore Tanzania



A high-grade helium discovery in Africa, moving toward phased production in a tightening global market.

### Opportunity Overview

Helium One Global Limited is advancing the southern Rukwa Helium Project in southwest Tanzania, one of the few primary helium developments globally not linked to hydrocarbons. The project was de-risked by the ITW-1 discovery in 2024, which delivered sustained surface flow at 5.5% helium during an Extended Well Test (EWT), with 2026 ESP testing confirming continued reservoir performance at substantially increased production rates that averaged 5.4% helium and up to 9.2% helium concentration.

These results support a phased development centered on clustered production wells tied into a Central Processing Facility (CPF). Significant additional upside remains across a 480 km<sup>2</sup> Mining Licence (ML) through further fault-controlled and structural targets.

Helium is a critical resource used in MRI scanners, semiconductors, aerospace, AI and scientific applications. With constrained supply and rising demand, new high-grade helium sources are becoming increasingly strategic.



Fig.1 Map illustrating southern Rukwa Helium Project in southwest Tanzania

### Investment Highlights

- Company is an early mover in helium exploration, with licences held since 2015 and with an experienced board and management team
- ML 0795/2025 awarded Q3'25, under joint venture company – Songwe Helium Ltd. - and is the largest ML ever offered in Tanzania
- Contingent and Prospective Resources have been independently estimated at 1.3 Bcf (3C) and 3.2 Bcf (3U), respectively by Sproule ERCE, 2025
- Helium produced during the testing phase of ITW-1 is not associated with hydrocarbons nor carbon dioxide and production can be scalable to meet market demand
- Global helium import prices have increased from ca. US\$300/mcf to US\$450/mcf between 2022-2026 (AKAP Energy, 2026) with current global demand around 7 Bcf per year

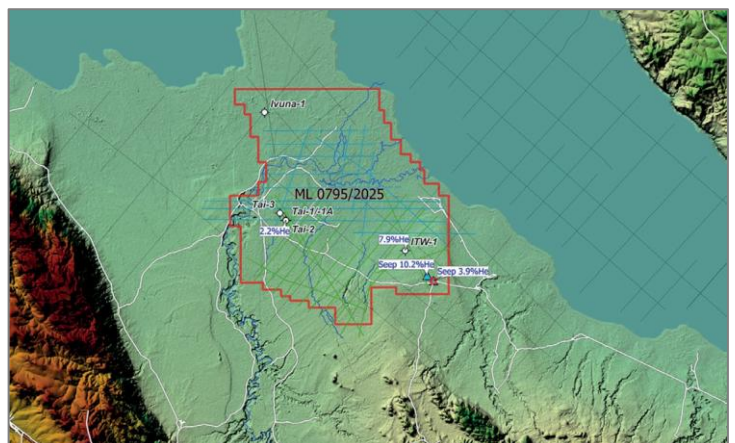


Fig.2 Map showing Mining Licence area in southern Rukwa

## Geological Overview: Natural Helium System

The southern Rukwa Basin is a continental rift basin where helium is sourced from fractured Basement rocks associated with the Tanzanian Craton. The helium is then mobilised, along with nitrogen, via deep-seated fluids and aquifers along faults and fractures. The basin does not contain any hydrocarbons due to the absence of a petroleum source rock, enabling production of a clean helium/nitrogen stream in solution.

A helium system follows similar principles to a petroleum system:

- **Source:** Naturally generated helium from radiogenic decay of ancient crustal rocks
- **Migration:** Upward movement through faults, fractures and groundwater
- **Reservoir:** Fractured and faulted Basement and Karoo sandstones
- **Trap:** Fault and fracture conduits

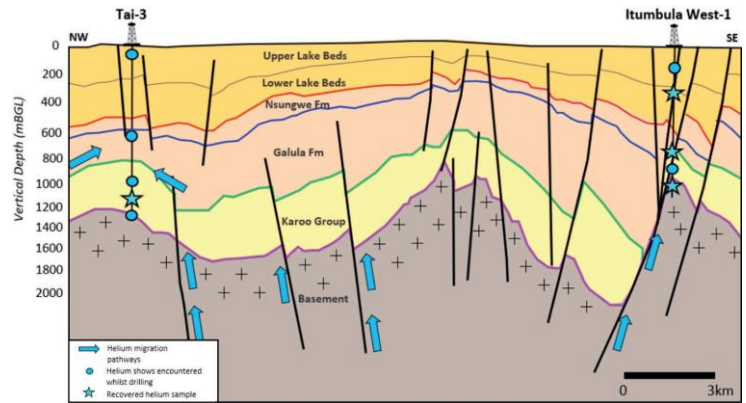


Fig.3 Geological cross-section illustrating basin stratigraphy and structure

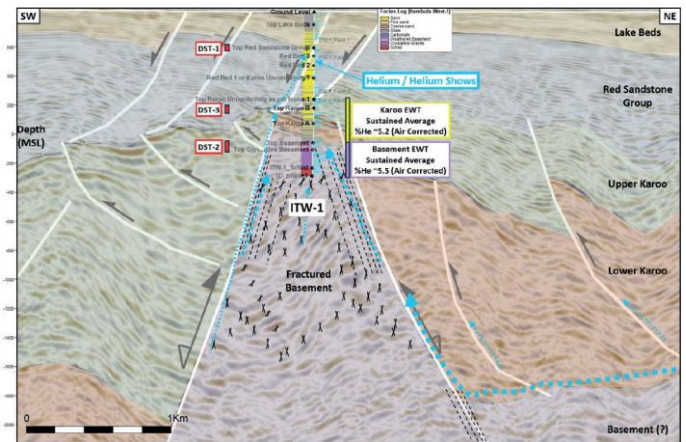


Fig.4 Geoseismic cross-section through ITW-1 helium discovery well

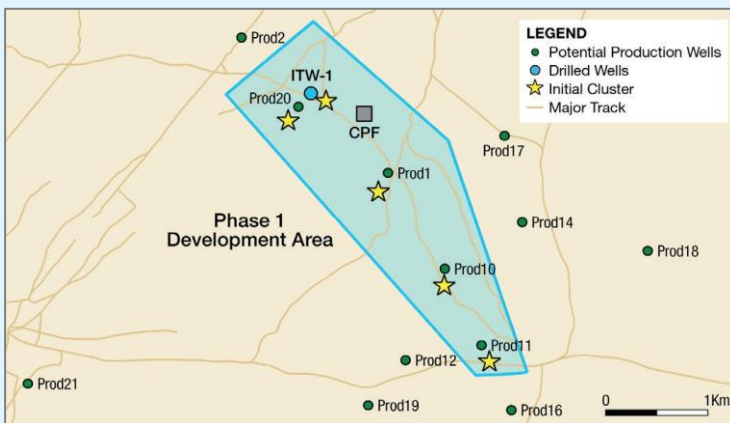


Fig.5 Schematic Phase I cluster development around a CPF

## Development Concept

A phased modular development is planned to accelerate first production and allow scalable growth.

Production wells will deliver helium-rich water to a CPF, where gas and water are separated. Helium will be upgraded through membrane and PSA systems to 99.999% purity, then compressed for export via tube trailers. Produced water may be treated for agricultural use.

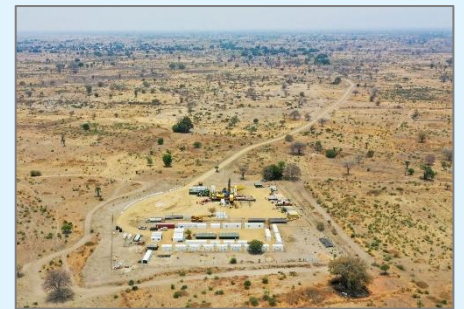


Fig.6 Aerial photo of Tai-3 wellsite (2024)

## Process and Timeline

PVE Consulting Ltd has been assigned an exclusive mandate to carry out a partner and investor search process for Helium One in 2026.

Interested parties should contact PVE in the first instance. Suitable investors and joint venture partners will be offered an NDA after which full evaluation of this important strategic resource opportunity can take place.