



VET4HYDROGEN – Strengthening the Green Hydrogen value chain in Kenya by promoting skills through VET

Instituto per la Cooperazione Universitaria – ICU

Country
Sector
Duration

Kenya
Green hydrogen & access to energy
01.09.2025 - 31.08.2027



VET4HYDROGEN promotes Kenya's Green Hydrogen economy by strengthening technical skills and capacities through VET, fostering decent employment opportunities, and enhancing collaboration between public, private, and academic sectors.

Context

Kenya is implementing its Green Hydrogen (GH2) strategy, positioning green hydrogen as a driver of sustainable socio-economic, industrial development. This ambition will create opportunities along the GH2 value chain and demand for a skilled workforce. However, workers, small & medium enterprises (SMEs) and training providers lack practical exposure to GH2 technologies, business models and certification requirements. Limited VET capacity, missing GH2 curricula and infrastructure, and low SME awareness limit access to these opportunities, making practice-oriented skills development and knowledge transfer essential for inclusive participation in the GH2 sector.



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The project's OP-VET approach

- **Builds on real labour market demand** in the GH2 sector by co-designing training interventions with private sector partners and aligning skills development with concrete employment opportunities.
- **Delivers hands-on, market-relevant training** through short courses and digital learning tools, equipping students, workers and trainers with practical skills across the GH2 value chain.
- **Strengthens VET systems and institutional capacity** through updated curricula, training of trainers and the establishment of Centres of Excellence to address critical skills gaps sustainably.
- **Engages private sector actors** in reviewing curricula, raising awareness on hydrogen use in industry, and supporting the implementation of the dual training system to ensure industry-relevant skills development.
- **Promotes gender equality**, awareness and policy engagement to support the adoption of curricula, private sector participation and inclusive, sustainable development in the GH2 value chain.

Key activities

- Update existing VET curricula to include GH2-related concepts and competencies.
- Establish up to 20 Centres of Excellence, each equipped for Green Hydrogen training.
- Facilitate an EU–Kenya exchange programme enabling trainers and entrepreneurs to gain hands-on experience in European GH2 facilities.
- Promote regional knowledge exchange by sharing lessons and developing replicable, scalable GH2 approaches for other Sub-Saharan African countries.
- Engage private sector companies in awareness-raising campaigns on GH2 employment opportunities.

Partners



Istituto per la Cooperazione Universitaria
Lead organisation



Eastlands College of Technology - ECT



Strathmore Energy and Research Center - SERC



The TVET Curriculum Development, Assessment and Certification Council - TVET CDACC



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Why it matters

By enabling Kenyan VET institutions and businesses to meet the emerging skills demands of the GH2 industry, VET4HYDROGEN lays the foundation for decent, inclusive employment and long-term economic resilience. The availability of skilled local labour strengthens businesses, stimulates local value chains and generates positive ripple effects across communities, particularly benefiting women, youth and disadvantaged groups. By prioritising decent work and gender inclusion, the project not only improves individual livelihoods but also supports social cohesion and sustainable socio-economic development at community level.

Expected impact

- 2600** decent jobs created across the GH2 value chain
- 1800** students (30% women) trained in GH2
- 800** workers (30% women) upskilled or reskilled through short courses
- 80** trainers trained through short courses



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