

Enabling Local CleanTech Ecosystems

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From Global Collaboration to Local Capacity, Projects & Scale

CBC Local CleanTech Ecosystems are where our global network becomes local implementation.

They connect **technology, capital, off-takers, knowledge and international partnerships** with **local leadership, institutions, industrial priorities and market needs** — creating the conditions for real projects, manufacturing localisation and long-term economic value.

Rather than building parallel structures, CBC works to **strengthen existing local ecosystems**, mobilising complementary capabilities around concrete opportunities and trusted local partners.

Morocco is our first flagship deployment — a living laboratory for developing a replicable model that can later be adapted to selected markets worldwide.

Global capabilities. Local leadership. Shared value. Real deployment.

Value Creation, Deployment & Scaling



Five Key Guiding Principles - CBC Local Deontology

1. Connect & Strengthen Local Ecosystems

CBC enters a market to **connect, reinforce and accelerate existing local ecosystems**, working with institutions, companies and initiatives creating value.

2. Local Leadership First

Local priorities, institutions and decision-makers remain at the centre.
CBC contributes global capabilities, relationships and execution support around them.

3. Partnership Over Competition

We connect complementary strengths and encourage partners to **co-create, share opportunities and build together** wherever collaboration creates greater value.

4. Build Local Capability

Every ecosystem should contribute to skills, knowledge, engineering capacity and **local manufacturing built on transparency, integrity and fair partnerships**, creating long-term economic value — not simply importing technologies.

5. Create Shared, Long-Term Value

Success is measured not only by projects, but by the **lasting ecosystem, partnerships, capabilities and opportunities created for local communities and future generations.**



"When we enter a market, our ambition should not be simply to sell technology, but to contribute to building local capability, developing local manufacturing and creating strong, long-term partnerships based on transparency, integrity and mutual trust. That is the real meaning of #TogetherWeAreStronger — and it also reflects the spirit of Guofu Hydrogen."

Pinfang Wu, Chairman, Guofu Hydrogen • Honorary Co-Chair, CBC CleanTech & AI Transformation Chapter — Clean Hydrogen Ecosystem

From Global CBC Capabilities to Local Delivery & Scale

1

Country Opportunity & Ecosystem Mapping



- Identify national priorities, industrial demand and high-impact CleanTech opportunities
- Map local capabilities, institutions, infrastructure and existing projects
- Identify gaps across technology, capital, skills, partnerships and demand
- Define priority sectors, anchor projects and localisation opportunities

From market potential → to focused ecosystem priorities

2

Local & Global Ecosystem Mobilisation



- Connect CBC Country Chapters and local leaders with CBC's global ecosystem
- Mobilise technology providers, investors, off-takers, academia and institutions
- Bring together complementary capabilities around concrete opportunities
- Build trusted H2H alignment and local ownership

Global capabilities → local partnerships & execution capacity

3

Projects, Industry & Investment Pipeline



- Originate pilot, infrastructure and industrial projects
- Develop manufacturing localisation and market-entry opportunities
- Structure strategic partnerships, JVs and consortia
- Align technology, off-takers, investors and financing pathways

From opportunities → to structured, bankable pipelines

4

Deployment, Localisation & Scaling



- Move flagship opportunities into commercial implementation
- Mobilise investment, financing, off-take and project-development capabilities
- Support local manufacturing, capacity building and industrial development
- Scale successful models nationally, regionally and across CBC markets

From first projects → to sustainable local CleanTech ecosystems

Powered by the CBC Global Ecosystem: Technology • Capital • Demand • Country Chapters & Local Leadership • Knowledge • Business Facilitation

First Local Ecosystem Deployment Milestone: Morocco — 2026

Local Capacity | Industrial Development | Investment | Deployment

Five Reasons Why Morocco?

1. Strategic Bridge Between Continents

Morocco sits at the crossroads of major future energy, industrial and trade corridors.

2. World-Class Clean Energy & Industrial Potential

Exceptional solar and wind resources combined with **industrial ambition, ports, infrastructure and growing hydrogen / Power-to-X momentum**.

3. Global Food & Water Security Relevance

Morocco's leadership in **phosphates and fertilisers**, combined with clean hydrogen and clean water, gives it strategic importance far beyond energy — directly linking the transformation with **global food security and water resilience**.

4. A Trusted Platform in a Changing Geopolitical World

As supply chains, energy security and industrial alliances are being reshaped, Morocco is becoming an increasingly valuable **stable bridge between Europe, Africa and global partners**.

5. From Technology Importer to African Innovation & Manufacturing Hub

Morocco has the opportunity to build **local R&D, EPC, manufacturing, skills and export capabilities**, serving both the domestic market and Africa.



"Morocco has the ingredients. CBC brings the connections. Our role is to help turn them into shared value — together, in the spirit of #TogetherWeAreStronger.

Tomasz Slusarz, Founder & Action Streamliner, CleanTech Business Club • Founder, WCAI Institute

CBC Morocco CleanTech Ecosystem Partners — #TogetherWeAreStronger

CBC Morocco CleanTech Ecosystem Partners

CleanTech Business Club
GFHA
COREAS
cleanvestree
国富氢能 GUOFUHEE
HYPER STRONG
Advait Energy Transitions Limited
water stuff & sun
KWenergy powering the future
KEYOU
Festen always on
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Vision Mechatronics www.vmechatronics.com
SOLARJUICE SOLAR STORAGE SOLUTIONS

Supporting Organisations & Event Platforms

SNEC
Renewable Energy India Expo
Hyvolution PARIS
informa markets
Green Hydrogen India
NEIAAP New Energy Industry Association
CNEEC
APVIA Asian Photovoltaic Industry Association
GLHA Global Liquid Hydrogen Alliance
ZESTAs. Zero Emissions Ship Technology Association
Dii
ZETA
Global CleanTech Media Exchange Network



"Through KEYOU and water stuff & sun, we are proud to support the CBC Morocco CleanTech Ecosystem and contribute our expertise in hydrogen mobility, logistics and infrastructure."

Thomas Korn, Founder & CEO, KEYOU GmbH & water stuff & sun GmbH • **Co-Chair,** CBC CleanTech & AI Transformation Chapter — Clean Hydrogen Mobility

Following the Moroccan Sun Together — #TogetherWeAreStronger



Step-by-Step Ecosystem Development Approach in Morocco

Step 1 — Capacity Building, Education & Applied Research

Joint Center of Excellence in Clean Hydrogen at EHTP • professional and executive education • applied research • industry–academia collaboration • engineering talent development

Step 2 — Pilot Projects & Demonstration Platforms

Integrated hydrogen systems • CleanTech pilots • hospitality & infrastructure applications • technology validation • real-world deployment

Step 3 — Industrial Development & Localisation

Manufacturing localisation partnerships • JVs • technology transfer • supply-chain development • EPC capability • testing and R&D infrastructure

Step 4 — Ecosystem Scaling & Regional Expansion

Commercial projects • investment • export-oriented CleanTech value chains • Africa expansion • replication of successful models



"Our approach in Morocco is simple: start with real implementation, build local skills and engineering capability, and then scale step by step towards industrial development and localisation. The objective is not only to deploy technology, but to create lasting value, know-how and manufacturing opportunities for Morocco and Africa."

Mostafa Boulal, CEO, Go For Hydrogen Africa (GFHA) • CBC Chair Morocco Chapter

GFHA - Go for Hydrogen Africa

From Global Partnerships to Industrial Implementation

GFHA (Go For Hydrogen Africa) is the first strategic joint venture and flagship hydrogen execution platform developed within the CBC Morocco CleanTech Ecosystem — created to translate trusted international collaboration into concrete projects, local capabilities and industrial development

Built between **Guofu Hydrogen and its Moroccan and international partners**, GFHA supports the clean hydrogen value chain across Morocco and Africa — from **production, storage and infrastructure to mobility, industrial applications, localisation and future manufacturing.**

Focus areas

- Local R&D, innovation & education
- Human capacity building & workforce development
- Local engineering, service & O&M capabilities
- Project development, EPC & system integration
- Technology localisation & strategic industrial partnerships
- Future Made-in-Morocco manufacturing
- Regional deployment and expansion across Africa

From technology deployment → to local capability → to industrial scale

Value Creation, Deployment & Scaling



Joint Center of Excellence in Clean Hydrogen at EHTP

From Education to Real-World Clean Hydrogen Implementation

Building on **CBC's Morocco CleanTech Ecosystem activities,** the initiative brought together **EHTP, Guofu Hydrogen** and **GFHA** to develop a shared platform for clean-hydrogen education, research and deployment.

Strategic MoU: 25 October 2024 — The partners signed an MoU in Zhangjiagang, China, establishing **the Joint Center of Excellence in Clean Hydrogen at EHTP** as a framework for education, applied research, pilot systems and ecosystem development.

First Major Milestone: 12 May 2026 — Just over 18 months later, the partners inaugurated the first major milestone of the Joint Center at the EHTP Campus in Casablanca **— Morocco and North Africa's first integrated clean hydrogen demonstration system —** in the presence of **H.E. Nizar Baraka,** Minister of Equipment and Water.

The system demonstrates the complete clean-energy cycle:
Solar Energy → PEM Electrolyser → H_2 Storage → Fuel Cell → Clean Electricity to the EHTP Grid

The installation combines a **Guofu Hydrogen PEM electrolyser, hydrogen storage and a Huade fuel-cell system**, creating a real demonstration platform for:

- Engineering education, practical training & workforce development
- Applied research, technology validation & system integration
- Hydrogen production, storage, grid integration & Morocco-based EPC know-how
- Future pilots and replication across buildings, campuses, industry, mobility and clean water

More than a demonstration system — this first milestone of the Joint Center creates a physical anchor for Morocco's emerging applied CleanTech innovation ecosystem.

Value Creation, Deployment & Scaling



From Idea to Implementation of the Operational Demonstration System

From the Joint Vision to the Strategic Partnership

Strategic Ecosystem Discussions at EHTP Campus in Casablanca, Morocco

Initial exchanges between EHTP, GFHA and Guofu Hydrogen explored how an academic–industry collaboration could contribute to clean hydrogen capacity building, pilot systems and long-term applied innovation in Morocco.

Visit to Zhangjiagang, China – October 2024

EHTP Delegation with its Director, Prof. Jaouad Boutahar visited Guofu Hydrogen's facilities in Zhangjiagang, including advanced electorlyser manufacturing, hydrogen infrastructure, R&D and testing facilities, strengthening mutual understanding and the basis for collaboration.

Strategic MoU Signature – 25 October 2024

EHTP, Guofu Hydrogen and GFHA signed a Memorandum of Understanding establishing the Joint Center of Excellence in Clean Hydrogen at EHTP as a collaborative framework for education, applied research, pilot systems and ecosystem development.

From Concept to Operational Demonstration System

Engineering & System Integration | Nov 2024 – Jul 2025

System engineering, electorlyser integration, hydrogen storage configuration, fuel cell integration, safety integration and internal testing.

Shipment to Morocco | Sep 2025 - Nov 2025

GFHA and Guofu Hydrogen organised shipment, logistics coordination, customs procedures and preparation for installation in Morocco.

Civil Works & Site Preparation | Late 2025 – Early 2026

GFHA and EHTP teams coordinated infrastructure works, utilities preparation, foundations and site integration at the EHTP campus.

Commissioning & Operational Validation | March – May 2026

Integrated commissioning activities enabled the first full operational cycle combining solar electricity, hydrogen production, storage and reconversion into electricity.

On 8 May 2026, the first full operational cycle was successfully completed

Solar Energy → PEM Electrolyser → H_2 Storage → Fuel Cell → Clean Electricity to EHTP Grid



From Demonstration to Applied Research, Innovation & Industrial Deployment

Building on the Joint Center of Excellence, EHTP and its partners are developing **the EHTP Applied Innovation Platform for Clean Hydrogen, CleanTech, Clean Water & Intelligent Infrastructure.**

The ambition is simple but transformational: **Morocco should not only deploy CleanTech — it should help develop it.**

The Platform will connect **EHTP researchers and students with leading international technology companies, universities and industry partners** to develop, test, validate and demonstrate next-generation solutions across:

Clean Hydrogen • Energy Storage • CleanTech Infrastructure • Water-Energy Nexus • AI, Digitalisation & Intelligent Infrastructure

It will support **industry-driven applied R&D, doctoral and engineering research, technology validation and pilot systems, international research collaboration, executive education and talent development, and pathways from innovation to industrial deployment.**

CBC connects EHTP with the global ecosystem of technology, research, investment and industry partners required to make the Platform internationally connected and implementation-oriented.



"EHTP's ambition is not only to educate engineers, but to help Morocco develop, validate and deploy the technologies of the future. Through the Applied Innovation Platform, we want to connect Moroccan talent with world-class industry and research — positioning EHTP as a national catalyst for CleanTech innovation and industrial transformation."

Prof. Jaouad Boutahar, Director, École Hassania des Travaux Publics (EHTP) • **Co-Chair, CBC CleanTech & AI Transformation Chapter — Clean Water Academia Ecosystem**

From Platform Vision to Strategic Commitments

Strategic MoUs Supporting the EHTP Applied Innovation Platform

Signed on 12 May 2026 • EHTP, Casablanca, Morocco



Guofu Hydrogen & GFHA: Integrated clean hydrogen systems & localisation pathways

Contributes to the clean hydrogen pillar of the platform through integrated hydrogen systems, applied innovation, training, technology validation and potential future localisation pathways in Morocco and Africa.

KEYOU & water stuff & sun: Hydrogen mobility, storage, transport & logistics

Contributes to the hydrogen mobility and infrastructure pillar through hydrogen combustion engine applications, storage, transport, distribution and integrated hydrogen supply-chain concepts.

KWenergy: Integrated energy systems, storage & intelligent energy management

Contributes to the energy systems pillar through solar, storage, flexible energy infrastructure, system optimisation and electric mobility-related energy solutions.

CleanTech Business Club: Global ecosystem integration & international collaboration

Supports the platform by connecting EHTP with international industry partners, research institutions, investors and innovation initiatives. CBC / Cleanvestree contributes as an ecosystem connector and facilitator for industry–academia collaboration.

From Platform Vision to Strategic Commitments and First Milestones Projects

Strategic MoUs Supporting the EHTP Applied Innovation Platform

Signed on 08 October 2026 • EHTP, Casablanca, Morocco



Morocco Clean Hydrogen Mobility Study: Business Case, TCO & Deployment at Scale

Launches the first applied study of the Platform, bringing together **real mobility demand, hydrogen supply, infrastructure and whole-life economics** to identify commercially viable use cases and scalable deployment pathways in Morocco.

Through the **CBC Morocco Ecosystem**, the Study will mobilise leading players across **solar, wind, BESS, hydrogen technologies, logistics, ports, mobility, industry, financing, AI and infrastructure** — creating the scale needed to test the lowest achievable hydrogen cost and build a credible pathway from business case to commercial deployment.

Clean Hydrogen Research, Education & Innovation

Strengthens international academic cooperation through joint research, education, knowledge exchange and innovation activities in clean hydrogen, connecting Moroccan and Canadian expertise and supporting the development of future skills and applied research.

Our Ambition: From Morocco to a Replicable Global Model

2024+

Build & Prove the Model — Morocco

- Build and consolidate **CBC Morocco CleanTech Ecosystem**, initiated with GFHA
- Scale activities around the **Joint Center of Excellence in Clean Hydrogen at EHTP** and its future **EHTP Innovation Platform**
- Expand from clean hydrogen towards broader **CleanTech + AI applications**
- Develop pilots, project pipelines, localisation opportunities and investment pathways
- Use Morocco as CBC's **first real-life validation platform for local ecosystem development**

Outcome:
A proven CBC model connecting global capabilities with local capacity, business and implementation

In Parallel | 2027–2028

Identify & Prepare the Next Markets

- Identify **2–3 priority countries** with strong transformation potential
- Assess local demand, industrial priorities, partners, investment environment and CBC leadership capacity
- Develop country-specific ecosystem concepts rather than mechanically replicating Morocco
- Identify potential anchor institutions, local champions and first flagship opportunities
- Prepare pathways for future technology, investment and industrial collaboration

Selection criteria:
Strong local demand • Government & industry ambition • CBC relationships • Investment potential • Localisation opportunity • Trusted execution partners

2029–2030

Launch the Next Flagship Ecosystems

- Launch **1–2 new CBC-enabled local CleanTech ecosystem deployments**
- Establish anchor partnerships and initial implementation platforms
- Transfer proven technologies, partnerships and business models where locally relevant
- Connect new ecosystems with Morocco and the broader CBC global network
- Create cross-country opportunities for technology, investment, off-take and industrial collaboration

Outcome:
**From one validated model →
to a portfolio of locally adapted ecosystem deployments**

Beyond 2030

Build a Connected Global Network

- Create a portfolio of **interconnected CBC-enabled CleanTech ecosystems**
- Enable technology, capital, knowledge and business opportunities to move between markets
- Replicate successful pilots, partnerships and industrial models across regions
- Connect ecosystems through **CBC Country Chapters, WCAI Institute, Cleanvestree and CBC's global technology, investor and off-taker communities**

Long-Term Ambition

**From Morocco →
to selected local ecosystems →
to a globally connected CleanTech delivery network**



Human trust at the core.
CleanTech & AI transforming
what we can achieve together.

#TogetherWeAreStronger