

Adaŋu Kɔfɛ`

THE AI CITY

Đudɔ

Sacrificial Labour · Ho, Asogli Kingdom, Volta Region, Ghana

The Village of Wisdom · 6.61°N · AQI 26 · EPA Oxygen City

One small town. Six sovereign revenue streams. The cleanest air in Ghana.
Something is being built here that has never happened in the existence of the world.

THE AI CITY

300 MW Solar · ŋdɔ | Oxygen Economy · Ayá | Eco-Tourism | Carbon Credits | Granite & Minerals | Green Hydrogen | 10 Million Trees | AQI 26 · EPA Oxygen City

"The signal has always been clear. Now it is being manifested."

— ClearSignal Ltd · Ho, Volta Region, Ghana · April 2026

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AĐAŋU KↄƒÈ · ĐUĐↄ · CLEARSIGNAL LTD · APRIL 2026

Contents



"One small town. Unknown, unrecognised, overlooked by every map that mattered. Yet from this place, in this language, under this sky — something is being built that will serve every human being on the surface of the earth."

This brochure covers the full Đuɖↄ initiative — its history, its vision, its economic architecture, and all formal correspondence with government and international bodies to date. Aɖaŋu Kↄƒè (The Village of Wisdom) is the name of the sovereign smart city being built to embody everything this brochure describes.

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ABOUT THIS BROCHURE

This is a Tier 1 public disclosure document under the Dutor Sovereign AI Operating Framework. All correspondence reproduced here is reproduced in the spirit of the framework's governing principle — *Trust but Verify* — to demonstrate the full

SECTION 1 · HISTORICAL FOUNDATION

Ho · The Town the World Forgot

Ho is the capital of Ghana's Volta Region — at 6.6°N latitude, between forested mountains and the Volta Lake basin. It is the seat of the Asogli Traditional Area, one of the most historically significant Ɛvè kingdoms in West Africa. For most of its post-colonial existence, Ho remained invisible to the world's investors and planners. That invisibility is now over.

The Asogli people trace their founding to a migration from Notsie, in present-day Togo, around the 17th century. Five military divisions were established at the founding: Bankoe (sovereign centre), Dome (left flank — warlords), Ahoe (right guard), Heve (vanguard), Hliha (rear). This formation still governs the city today.

> *"Ho means 'the place where people settled and stayed.' They did not pass through. They arrived. They remained. That permanence is in the language, the soil, and what is being built here now."*

The Founding Towns

Ho · Bankoe — The Paramountcy Seat
Home of the Đutɔ and the Afede Stool. The sovereign centre around which the four other towns orient.

Akɔéƒɛ́ — The Agricultural Heart
Founded by Akoe, son of Tɔgbè Kakla. Site of the Agblè farm division. The land feeds before the city dazzles.

Kpeŋɔè — Warrior Lineage of the Letsu
One of the founding Asogli settlements, established by the Letsu lineage, contributing to the shared Asogli defence and governance structure under the Agbogbomefia.

Taklã — Founding Settlement of Asogli
One of the original Asogli towns, contributing to the shared cultural and governance heritage of the paramountcy. Like all Asogli subunits, Taklã operates under the collective authority of the Agbogbomefia stool and the wider Asogli sovereign structure.

Saviefe — Women's Innovation Quarter
Founded by Esa, daughter of Tɔgbè Kakla. In the Đuɖɔ plan, hosts the wellness and premium oxygen tourism district.

Colonial Record to Present

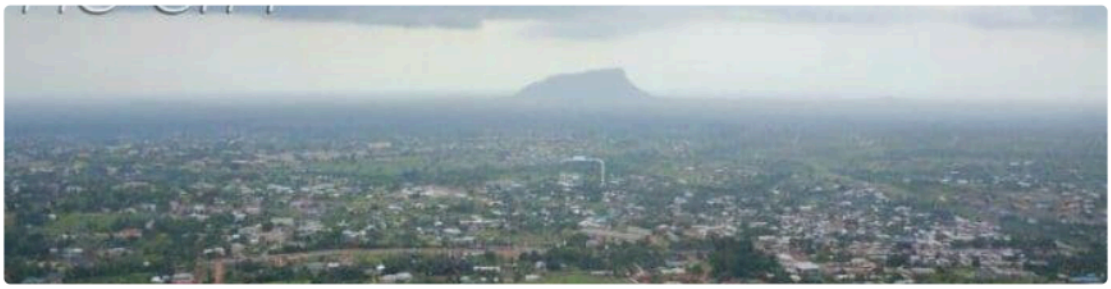
1884–1914 · German Togoland
Ho becomes district capital. First written documentation of Ɛvè oral history.

1914–1956 · British Trust Territory
Asogli paramountcy recognised but subordinated to colonial district governance.

1956 · The Plebiscite
British Togoland votes to integrate with Ghana. Ho becomes Volta Region capital of independent Ghana.

1960s–2020s · Decades of Neglect
Exceptional natural endowment receives minimal investment. Mountains stand unworked. AQI holds at 26.

December 2025 · The Turn
President Mahama launches TDC Oxygen City Community 27. ClearSignal files multilateral applications. The world begins to look at Ho.



Ho City from the mountain — Galenkuĩ's flat-top peak, 26,000 ha of natural forest, AQI 26.

SECTION 2

The Signal Has Always Been Clear.

Now it is being manifested.

Every institution, division, and concept in the Đuɖɔ initiative carries a name in Ɛvè — the language of the Asogli people of Ho — that existed long before any of this was conceived. Read those names carefully. They do not merely describe what is now being built. The signal was always there. What follows is its manifestation.

ClearSignal

The company name

A signal that is clear. In a city of AQI 26 — the cleanest air in Ghana — every signal travels without interference. The company was named before the city was planned. The city confirmed the name.

Đuɖɔ

Sacrificial Labour

The founder's surname — Akɔ̀ɖɔ — carries the same root: ɖɔ, labour of the heart. The surname carried the purpose before the initiative existed. Đuɖɔ is its fulfilment.

Đutɔ̀

Overlord · Founder · Owner

The Dutor Sovereign AI Operating Framework takes its name from this ancestral title. AI governance architecture and sovereign authority share one name.

Ŋɖɔ

The established sun

The solar project named after the sun permanently established above Ho at 6.6°N. Root ɖɔ runs through Đutɔ̀, Ɖuɖoɖo, and Ŋɖɔ. One word for permanence.

Ayá

Air — literally

Not oxygen-as-product. Air itself. In Ho at AQI 26, air is the asset. The name for the oxygen economy is simply the Ɛvè word for air.

Hosi · Aʃɛ́ga

Market · Iron Bell

The first two protocol layers — market intelligence and economic signalling — are ancient Ɛvè commercial architecture, now formalised as sovereign governance.

Ɖuɖoɖo

The established drum

The drum leads the Đutɔ̀. The sound arrives first. The governance authority layer announces the path before the decision-maker walks it.

Aɖaŋu Kɔʃɛ̀

The Village of Wisdom

The name of the sovereign smart city — Aɖaŋu (place and path of wisdom · the AI division) + Kɔʃɛ̀ (village / settlement). The village where wisdom lives and governs.

SECTION 3 · URBAN PHILOSOPHY

Aɖaŋu Kɔfɛ`— The Village of Wisdom Builds Tall

The vision for Aɖaŋu Kɔfɛ̀ is a vertical sovereign city. Towers. Glass. Green rooftops. Sky gardens. Every square metre of ground not occupied by foundations is returned to nature — farming, forest, oxygen production, carbon sequestration. This is not a stylistic preference. It is the economic and ecological foundation on which the entire Đuɖɔ initiative rests.

A Respectful Note on the TDC Oxygen City Housing Model

President Mahama's TDC Oxygen City Community 27 is a genuine and welcome act of presidential commitment to Ho. ClearSignal supports that vision entirely — and has formally written to TDC proposing partnership. However, the current TDC design — three and four-storey blocks across wide horizontal footprints, with large hardstanding — runs counter to the principle that gives Ho its most valuable asset: AQI 26.

The land mathematics: A 1,860-acre development at 3–4 storeys requires approximately 600–800 acres of sealed or semi-sealed ground — roads, car parks, paving, building footprints. That is 600–800 acres no longer producing oxygen, no longer absorbing CO_2, no longer feeding the watershed. In a city whose entire commercial case rests on being Ghana's cleanest and most oxygen-productive location, covering 40% of the land with sealed surfaces is a structural contradiction.

The materials problem: Conventional concrete block construction produces approximately 0.85 tonnes of CO_2 per tonne of cement. A 1,860-acre development of this type is estimated to emit 40,000–80,000 tonnes of CO_2 in its construction phase alone — equivalent to 20–40% of the first year's REDD+ carbon credit target. This is counterproductive to everything the Oxygen City designation stands for.

The Aɖaŋu Kɔfɛ̀ alternative: Build vertically. Use cross-laminated timber (CLT) and low-carbon alternatives sourced from Ho's own managed forest base. Return 70% of the development footprint to trees, farms, and oxygen-producing green corridors. The same number of people housed in a fraction of the land area — and the released land generates the revenue that justifies the entire investment. **Ho does not need more houses. Ho needs more trees. Vertical housing gives both.**



Aɖaŋu Kɔfɛ̀ · The Village of Wisdom — towers rising from a green base, trees on every rooftop, mountain behind, blue sky above.



Current Ghanaian housing model — wide horizontal footprint, sealed ground. The Aɖaŋu Kɔfɛ̀ vision departs from this entirely.

The Vertical Advantage — Land Mathematics

A 20-storey tower housing 200 units occupies ~0.3 acres. The same 200 units in 4-storey blocks occupies ~3.2 acres — releasing 2.9 acres per 200 units. Going vertical across 1,860 acres releases an estimated 1,200–1,400 additional acres for trees. At Ho's carbon credit rate, that extra ground generates USD 1.2–1.6M/yr in additional carbon revenue before the city is fully occupied.

70%

Ground returned to nature in vertical model

SECTION 4 · SELF-SUSTAINING PROPERTY MODEL

Every Property Pays for Itself — and Then Some

Every property in Aɖaŋu Kɔƒè comes with sovereign infrastructure built in from Day 1. The building pays for its maintenance through what it generates. Residents pay for what they use, not for what they produce.

☀ Nɳɖɔ Solar · Grid-Tied PV
Rooftop solar sized to 100% consumption plus 20–40% surplus. Surplus feeds the Ŋɖɔ main grid. Feed-in credit for every kWh exported. The grid pays you if you generate enough.

Tree Canopy · O₂ Economy
Minimum one tree per unit. Trees registered on the Ayá carbon ledger. Quarterly assessment: CO_2 absorbed, O_2 produced. Carbon credit payment proportional to canopy health and quantity. A mature tree covers 3–6 months of maintenance fees per year.

Starlink Mesh · Sovereign Internet
City-wide Starlink LEO mesh, Clearsignal IT division. No external ISP dependency. Gigabit speeds. Data governance under the Dutor Framework — your data does not leave the kingdom without your consent.

❄ Solar Air Conditioning
All units use solar-powered AC with Aɖaŋu AI smart scheduling. In Ho at 6.6°N, solar production and cooling demand peak simultaneously. Zero grid draw for climate control.

Integrated Fire Safety
IoT fire detection across all properties monitored in real time by the Asafo security team. Solar-powered suppression with independent battery backup. Every alert logged under MARS v1.0 — no override without governance record.

♻ Smart Waste · Zero Landfill
Pneumatic underground collection. Sensor-monitored bins. Organic waste composted to Agblè farms. Recyclables sold — revenue shared with residents. Residual waste energy-recovered. No landfill.

Rainwater Harvesting
Rooftop collection feeds grey-water system for gardens and tree irrigation. Ho receives 1,200–1,500mm rainfall annually. Estimated 35–45% reduction in municipal potable water demand.

Electric Light Rail
Light rail loop connecting all zones — powered entirely by Ŋɖɔ solar. Zero-emission. Smart scheduling via the Aɖaŋu city management system. No private car needed within the city boundary.

Medical O_2 Supply
Every tower connected to the Ayá oxygen distribution network. Medical-grade oxygen available at every residential floor. In a medical emergency, oxygen is already in the building.

The Tree Payment System — How It Works

Every tree registered at planting on the Ayá carbon ledger. Quarterly satellite and IoT assessments measure canopy health, CO_2 absorption, O_2 output, and biomass. Three payment components: (1) Carbon credit allocation — share of city-wide REDD+ revenue proportional to your tree's verified absorption. (2) Oxygen premium — for trees meeting medical-grade ambient O_2 thresholds. (3) Tourism biodiversity bonus — for trees contributing to Ho's wildlife corridor certification. The city plants the tree. The tree pays for the city.

SECTION 5

Six Pillars · One Platform · No Competitor on Earth

01 · Ŋdɔ (ING-daw) · The Established Sun

Solar Energy · 300 MW · Three Phases

Phase 1: 50 MW · powers Ho + TDC Oxygen City · PURC FIT locked 10 yrs · USD 13.3M/yr. Phase 2: 150 MW · wind hybrid · export to Togo & Benin. Phase 3: 300 MW · HVDC · green hydrogen · local panel manufacturing. IRENA 2024: USD 1,093/kW · capacity factor 20% conservative.

02 · Ayá (Ah-YAH) · Air — Literally

Oxygen Economy · AQI 26 Monetised

Solar-powered PSA plants. Medical-grade O_2 (99.5%) and industrial O_2 at scale. Ho's Oxygen City designation: cleanest ambient air feedstock in West Africa. Markets: Ghana Health Service, West African hospital networks, industrial users, international wellness. Africa gas market USD 4.38B (2025).

03 · Eco-Tourism · Kenya Model

500,000 Visitors/yr · 10 Million Trees

Native trees on Ho's mountains. Wildlife corridors. Solar eco-lodges. Mountain treks, cultural heritage tours, certified clean-air wellness retreats. Kenya earns USD 2.4B/yr from eco-tourism. Ho offers pristine air, mountain scenery, and cultural depth that no Kenyan reserve can match on the AQI axis.

04 · Carbon Credits · The Forest Earns Forever

200,000 tCO_2/yr · VCS/Gold Standard

Reforestation registered under REDD+ methodology. Ho Municipal holds 26,000 ha of natural forest. Revenue starts at USD 3–16M/yr scaling to USD 15–80M/yr as the canopy matures over 20 years. Every tree planted today generates revenue for the next century.

05 · Granite & Minerals · What Lies Beneath

Survey · Develop · Community Benefit

Crystalline granite and basement complex. Geological survey funded within SEFA grant. Dimension stone export. Potential rare earth and lithium — if confirmed, transformative (lithium: USD 15,000–80,000/tonne). Revenue modelling follows the survey. Deliberately open at pre-feasibility stage.

06 · Green Hydrogen · West Africa's First H_2 Hub

Phase 3 · Tema Port · EU RFNBO-Compliant

Phase 3 surplus solar → electrolysis → export via Tema Port (120 km). EU RFNBO-compliant from inception — electricity additionality, time-matching, geographic alignment built in. Targets Germany, Japan, South Korea, EU. The hydrogen Ho's sun produces will warm homes in northern Europe.

20,000+	Jobs by Phase 3
600Kt	CO_2 impact/yr
12 yrs	Full build-out

> *"ĐUĐƆ has no direct competitor anywhere on earth. No other initiative combines energy, oxygen, eco-tourism, carbon, granite, and hydrogen in a single integrated sovereign platform for one city."*

SECTION 6 · THE INVITATION

Join the Creation of Something the World Has Never Seen

Disclosure Tier Structure & NDA

TIER 1	TIER 2	TIER 3
This brochure · Public	Investor Teaser	Full Investor Deck
Vision · History · Letters	Six pillars · No model	NDA required

Does this brochure replace the NDA? No. This brochure is deliberately public — it shows the vision, history, governance, and the full engagement record. It contains no financial model, no IRR analysis, no equity structure, and no cap table.

The **Tier 3 investor deck** — requiring a signed NDA — contains: the full financial model; equity structure and cap table; Phase 1 technical proposal with site parameters; the full Dutor Framework evidence corpus; and an invitation to a formal presentation in London or Accra.

This brochure is the door. The NDA is the key to the next room.

Request the Tier 3 Investor Deck under NDA

Subject line: "ĐUĐƆ Tier 3 NDA Request" · frederick.a@clearsignal.uk · NDA dispatched within 48 hours of a qualified introduction

The invitation is open. The world can join in the creation of a world-class oxygen and solar energy producer — a city that will produce clean energy, clean air, and clean governance at a scale no other single location on earth can match.



Ho market — Hosi in sovereign operation. The commercial centre of the Volta Region and the first layer of the Đuɖɔ sovereign protocol.



TDC Oxygen City Community 27 physical scale model — the 1,860-acre presidential development that Ŋɖɔ Phase 1 will power from Day 1.

Investment Tiers — Every Level Welcome

Tier 0 · Asogli Kingdom

Golden share · permanent sovereign veto

The Đutɔ of Ho. Cannot be bought, diluted, or overridden. Every investor enters below this layer.

Tier 1 · Ghana Government / GIIF

Land · policy · GIIF tranche · ~25% stake

Transparency note: This letter was originally marked *Personal and Confidential — Addressee Only*, reflecting the direct and unmediated nature of the communication to the President of Ghana. It is reproduced here in the spirit of the Dutor Sovereign AI Operating Framework's governing principle — *Trust but Verify* — and to demonstrate the full scope of sovereign engagement undertaken on behalf of Ho and the Volta Region. The content contains no commercially sensitive material, no NDA-covered data, and no financial model information.

OFFICIAL CORRESPONDENCE · 7 APRIL 2026

Letter to the President of Ghana

To: H.E. John Dramani Mahama · President of the Republic of Ghana · Jubilee House, Accra

7 April 2026

His Excellency John Dramani Mahama
President of the Republic of Ghana
Jubilee House, Kanda · Accra, Republic of Ghana
office@presidency.gov.gh

Re: ĐUĐƆ — A Personal Briefing to the President of Ghana

Your Excellency,

I write to you not as a petitioner seeking favour, but as a Ghanaian sovereign presenting to Ghana's sovereign President an initiative that belongs to both of us — and to Ho, and to the Volta Region, and to Ghana's place in the world.

My name is Frederick Yao Akordor. I was born in Bankoe, Ho, Volta Region. I am the founder of ClearSignal Ltd, registered in England and Wales, and the architect of the Dutor Sovereign AI Operating Framework — a provable trust architecture that has no equivalent anywhere in the world.

I am writing to you personally because what I am presenting is of a nature that must reach you directly, unmediated, and without the distortion that sometimes occurs when a message passes through intermediaries whose interests may not fully align with yours — or with Ghana's.

What Has Been Built

ĐUĐƆ (pronounced Doo-daw) — meaning the sacrificial task in Ɛvè, the burden taken on voluntarily for the town and its people — is an integrated sovereign green economy initiative for Ho, structured around six revenue pillars: 300 MW of utility-scale solar energy powering Ho and the TDC Oxygen City Community 27 development; oxygen economy — medical and industrial oxygen production built on Ho's EPA-certified Oxygen City designation (AQI 26); ecological restoration and eco-tourism — 10 million trees on Ho's mountains and a Kenya-model tourism economy; carbon credit generation — a certified international carbon sink generating long-term revenue as the forest matures; granite and mineral development — geological survey and dimension stone export; and green hydrogen export — Phase 3 surplus electricity converted to hydrogen for export to Germany, Japan, South Korea, and the European Union.

Governance Record

Tier 1 Disclosure under the Dutor Sovereign AI Operating Framework — logged, timestamped, and tracked from dispatch. Every commitment made herein is verifiable in the ĐUĐƆ governance record.

STATUS	
Tier	1 Disclosure
Framework	Dutor · CICDRA v1.1
Date	7 April 2026
Status	Logged · Live



Ho, Volta Region — the sovereign territory to which this letter speaks.

OFFICIAL CORRESPONDENCE · 5 APRIL 2026

Letter to TDC Ghana Ltd

To: Mr Courage Makafui Nunekpeku · Managing Director · Tema Development Corporation

5 April 2026

Mr Courage Makafui Nunekpeku
Managing Director
Tema Development Corporation (TDC) Ghana Limited
Accra, Republic of Ghana

Re: ĐUĐƆ — Energy Partnership Proposal for Oxygen City Community 27

Dear Mr Nunekpeku,

The Oxygen City Community 27 development requires power. ClearSignal Ltd has built the initiative that will provide it.

ĐUĐƆ is an integrated sovereign development initiative conceived by ClearSignal Ltd for Ho and the Volta Region. Its first and foundational pillar is utility-scale solar energy infrastructure — designed to power Ho Municipality, supply the Oxygen City development in full, and export surplus energy regionally and internationally.

The alignment between ĐUĐƆ and the TDC Oxygen City project is not incidental. The 1,860-acre development at Agbokope — with its residential units, industrial park, specialist hospital, hotel, and commercial district — represents exactly the scale of sustained, reliable energy demand that a dedicated solar facility is designed to serve. The national grid alone cannot guarantee the quality of supply that a development of this ambition requires. ĐUĐƆ can.

Beyond energy, ĐUĐƆ brings five additional pillars: oxygen economy development — industrial and medical-grade oxygen production built on Ho's EPA-certified clean air designation; ecological restoration and eco-tourism — reforestation of Ho's mountains and a Kenya-model tourism economy that fills the Oxygen City hotel and drives regional footfall; carbon credit generation — monetising the Volta Region's forest assets on international markets; granite and mineral development — local resource extraction providing construction materials; and green hydrogen export — positioning Ho as West Africa's first green hydrogen hub.

The proposition is straightforward: TDC has the land, the mandate, and the presidential authority. ClearSignal has the energy architecture, the governance framework, and the international funding relationships. Together, Oxygen City Community 27 becomes not simply a housing development — it becomes the first fully sovereign, fully powered, internationally funded green city in West Africa.

ĐUĐƆ is governed under the Dutor Sovereign AI Operating Framework, ensuring that every agreement, every disclosure, and every financial commitment in this partnership is documented, verifiable, and under sovereign control. We will contact

Governance Record

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STATUS	
Tier	1 Disclosure
Framework	Dutor · CICDRA v1.1
Date	5 April 2026
Status	Logged · Live



Ho, Volta Region — the sovereign territory to which this letter speaks.

OFFICIAL CORRESPONDENCE · 5 APRIL 2026

Letter to the Ministry of Energy, Ghana

To: The Honourable Minister of Energy · Ministry of Energy · Republic of Ghana

5 April 2026

The Honourable Minister of Energy
Ministry of Energy · Republic of Ghana · Accra, Ghana

Re: ĐUĐƆ — Request for Inclusion in Ghana's National Renewable Energy Pipeline

Your Excellency,

ClearSignal Ltd writes to bring to the attention of the Ministry of Energy a renewable energy initiative of national significance — conceived for Ho, Volta Region, and designed to contribute directly to Ghana's energy security, export capacity, and climate commitments.

ĐUĐƆ is structured around a utility-scale solar energy facility targeting 300 MW of installed capacity across three phases in the Ho Municipality. The initiative will power Ho in full, supply TDC Oxygen City Community 27 launched by President Mahama in December 2025, and export surplus energy to Togo, Benin, and beyond — through Ghana's existing cross-border transmission infrastructure.

ĐUĐƆ aligns directly with Ghana's national energy objectives: the Renewable Energy Master Plan (REMP 2019) target of 1,363 MW of grid-connected non-hydro renewables by 2030 — ĐUĐƆ contributes up to 300 MW of that target from the Volta Region alone; the NDC requirement to mobilise USD 22.6 billion in green economy investment by 2030; and Ghana's existing bilateral energy export agreements with Togo, Benin, and Burkina Faso, into which ĐUĐƆ's Phase 2 surplus generation feeds directly.

ClearSignal Ltd is requesting that the Ministry of Energy formally include ĐUĐƆ in Ghana's National Renewable Energy Pipeline. Pipeline inclusion activates import duty waivers on equipment, tax holiday eligibility, land facilitation through district assemblies, and fast-track permitting through the EPA and Energy Commission. It also signals to the AfDB, GCF, and bilateral partners that the Government of Ghana has recognised this initiative as nationally significant — materially strengthening every funding application.

ĐUĐƆ is governed under the Dutor Sovereign AI Operating Framework. Every agreement and commitment is documented, verifiable, and under sovereign control. Ghana will not be a passive host. Ghana will be a sovereign partner.

We respectfully request a formal engagement with the Ministry of Energy and the Energy Commission at the earliest opportunity, and will follow this letter with direct contact within seven days.

Governance Record

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STATUS

Tier	1 Disclosure
Framework	Dutor · CICDRA v1.1
Date	5 April 2026
Status	Logged · Live



Ho, Volta Region — the sovereign territory to which this letter speaks.

OFFICIAL CORRESPONDENCE · 5 APRIL 2026

Letter to UNDP Ghana

To: UNDP Resident Representative · United Nations Development Programme · Accra, Ghana

5 April 2026

The Resident Representative
United Nations Development Programme (UNDP)
UNDP Ghana Country Office · Accra, Republic of Ghana

Re: ƉUƉƆ — Strategic Partnership and GCF Co-Implementation Request — Integrated Green Economy Initiative, Ho, Volta Region, Ghana

Dear Resident Representative,

ClearSignal Ltd writes to propose a formal co-implementation partnership between UNDP Ghana and the ƉUƉƆ sovereign green economy initiative — a 300 MW solar energy and integrated green economy programme for Ho, Volta Region, Republic of Ghana.

UNDP Ghana is a Green Climate Fund accredited entity — one of the designated national implementing partners through which Ghana can access GCF concessional finance and co-implementation support. The ƉUƉƆ initiative is structured precisely to access the GCF's low-emission energy access, forests and land use, and buildings and cities result areas. A formal UNDP co-implementation partnership is the appropriate mechanism through which ClearSignal Ltd seeks to engage the GCF at the programme level.

ƉUƉƆ aligns with UNDP Ghana's Country Programme priorities across three critical dimensions: it directly contributes to Ghana's NDC implementation targets through 300 MW of clean energy generation, ecological reforestation, and carbon credit generation; it is a paradigm-shift initiative — a sovereign, community-led, integrated green economy model that demonstrates a replicable approach to climate-positive development at the regional level; and it creates 20,000+ jobs in the Volta Region, directly addressing SDG 1, SDG 7, SDG 8, SDG 13, and SDG 15 in a single integrated framework.

ClearSignal Ltd respectfully requests: a formal partnership discussion with UNDP Ghana to explore co-implementation arrangements for the GCF programme; UNDP's expression of interest in principle as a potential GCF accredited entity partner for ƉUƉƆ's climate finance applications; and engagement on UNDP's existing GCF portfolio in Ghana to identify complementarity and avoid duplication with the REMP Coordinating Unit and NDC implementation programmes.

The Dutor Sovereign AI Operating Framework governs all ƉUƉƆ commitments. Every partnership agreement, disclosure, and funding commitment is documented, verifiable, and under sovereign control from the moment of first engagement.

Governance Record

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Date	5 April 2026
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Ho, Volta Region — the sovereign territory to which this letter speaks.

OFFICIAL CORRESPONDENCE · 5 APRIL 2026

Letter to KfW Development Bank

To: KfW Development Bank · PtX Development Team · Frankfurt, Germany

5 April 2026

The Head of Green Hydrogen / PtX
KfW Development Bank
Frankfurt, Federal Republic of Germany

Copy to: EU Global Gateway Africa Team · Directorate-General for International Partnerships · European Commission, Brussels

Re: ĐUĐƆ — Request for KfW Pre-Feasibility Grant Support for West Africa's First RFNBO-Compliant Green Hydrogen Hub

Dear Head of Green Hydrogen / PtX,

ClearSignal Ltd writes to introduce the ĐUĐƆ initiative and to request formal engagement with KfW Development Bank's PtX (Power-to-X) development programme in connection with the green hydrogen pillar of this initiative.

ĐUĐƆ is an integrated sovereign green economy initiative for Ho, Volta Region, Republic of Ghana — structured around six revenue pillars of which the sixth and most long-term is the production and export of EU RFNBO-compliant green hydrogen via Tema Port to European, Japanese, and South Korean markets. Phase 3 of the initiative — targeting final construction in Years 7–12 — will direct surplus solar electricity generation from a 300 MW utility-scale solar facility to electrolytic hydrogen production, compression or liquefaction, and export through Ghana's established maritime infrastructure at Tema.

ĐUĐƆ Phase 3 is designed to be RFNBO-compliant from inception. The Phase 3 solar capacity will be additional — new generation, not displacing existing grid supply. Time-matching and geographic alignment will be built into the project structure from the design stage, not retrofitted at certification. This positions Ho's hydrogen for premium EU market pricing and for the highest-value offtake arrangements with the H2Global mechanism and bilateral European purchasers.

The initiative aligns directly with the EU Global Gateway Africa Green Energy Initiative, which identifies West Africa as a priority region for green hydrogen development and investment facilitation. KfW's PtX Development Fund and EU Global Gateway co-financing instruments are the appropriate vehicles through which ClearSignal Ltd seeks to advance Phase 3 pre-feasibility and certification pathway work.

ClearSignal Ltd respectfully requests: KfW's formal consideration of a pre-feasibility grant for the ĐUĐƆ green hydrogen pillar under the PtX Development Fund; KfW's engagement on EU Global Gateway Africa Green Energy Initiative co-financing for

Governance Record

Tier 1 Disclosure under the Dutor Sovereign AI Operating Framework — logged, timestamped, and tracked from dispatch. Every commitment made herein is verifiable in the ĐUĐƆ governance record.

STATUS

Tier	1 Disclosure
Framework	Dutor · CICDRA v1.1
Date	5 April 2026
Status	Logged · Live



Ho, Volta Region — the sovereign territory to which this letter speaks.

OFFICIAL CORRESPONDENCE · 8 APRIL 2026

Letter to GO2AL · Global Oxygen Alliance

To: The GO2AL Secretariat · Global Oxygen Alliance · c/o Unitaid / World Health Organization · Geneva, Switzerland

8 April 2026

The GO2AL Secretariat
Global Oxygen Alliance
c/o Unitaid / World Health Organization · Geneva, Switzerland

Re: ĐUĐƆ — A Sovereign Oxygen Economy Proposal for Ho, Ghana, in Alignment with the GO2AL Global Oxygen Strategic Framework 2025–2030

Dear GO2AL Secretariat,

ClearSignal Ltd has conceived ĐUĐƆ (pronounced: Doo-DAW) — an integrated sovereign green economy initiative for Ho, Volta Region, Republic of Ghana. One of its six pillars is an oxygen economy built on Ho's EPA-certified clean air designation — AQI 26, the cleanest air quality index in Ghana. We are writing to GO2AL because the oxygen pillar of ĐUĐƆ aligns directly with the Global Oxygen Strategic Framework and Investment Case 2025–2030, and we believe there is a material basis for collaboration.

The GO2AL Framework calls for USD 4 billion to expand oxygen access in low- and middle-income countries, with a particular focus on building sustainable domestic production infrastructure — not perpetual import dependency. It identifies local and regional production as the model that closes the oxygen gap permanently. ĐUĐƆ's oxygen pillar is precisely that model, at the country level, in Ghana.

Ho holds a unique and documented natural asset: the Ghana EPA has certified Ho as Ghana's Oxygen City — an AQI of 26, driven by preserved natural vegetation, negligible industrial burden, and strong community environmental stewardship. This is not a marketing claim. It is a verified government designation. That asset, combined with ĐUĐƆ's planned utility-scale solar infrastructure (300 MW across three phases), creates the conditions for distributed Pressure Swing Adsorption oxygen production at a scale and cost structure unavailable anywhere else in Ghana.

Ghana's medical oxygen market is structurally undersupplied. Public health facilities rely on centralised cylinder distribution from Accra — a system that fails routinely, particularly in the Volta Region. The GO2AL Framework itself documents that 70% of patients who need oxygen in LMICs are not receiving it. Ho is inside that statistic. ĐUĐƆ's oxygen pillar addresses it directly: on-site PSA generation serving Ho Teaching Hospital and the wider Volta Region facility network, with surplus capacity for industrial and premium international markets.

The commercial model operates across three markets simultaneously: medical

GO2AL · Global Oxygen Alliance

A global coalition led by WHO/Unitaid calling for USD 4B to expand oxygen access in LMICs. GO2AL's Strategic Framework 2025–2030 identifies distributed domestic production as the permanent solution. ĐUĐƆ's Ayá pillar is precisely that model — at the country level, in Ghana.

STATUS

Tier	Tier 1 Disclosure
Date	8 April 2026
Status	Logged · Live

WHAT IS REQUESTED FROM GO2AL

· Country implementation model alignment for Ghana
· Letter of technical alignment (strengthens AfDB/GCF/WB applications)
· Guidance on active Ghana oxygen programmes (UNICEF, CHAI, PATH, Global Fund, World Bank)



Ho, Volta Region — AQI 26, the cleanest air in Ghana. The feedstock advantage no other oxygen facility in West Africa possesses.

SECTION 8

Most organisations claim. The Dutor Framework proves.

Not through attestation. Through structured, evidenced verification at every stage — from the first letter dispatched to financial close. Every decision logged. Every commitment verifiable.

CICDRA v1.1
Build-time trust
Five-gate pipeline. Every decision passes mandatory gates. ISO 27001 · EU AI Act Art.9 · Ghana DPA 2012.

TAGS v1.0
Operational trust
Every partner risk-tiered C/H/M/L. Four assurance levels L1→L4. UK GDPR · SOC 2 · NIST AI RMF.

MARS v1.0
Runtime trust
Five continuous streams. Cannot be disabled. Board quarterly reports auto-generated. ISO 42001 · EU AI Act.

The Six-Layer Sovereign Protocol

1. Hosi · Ho market institution · sanctions every transaction first
2. Aƒɛ́ga · The iron bell of Ho · rings when Hosi has sanctioned
3. **Ɖuɖoɖo** · The established drum · Akordor family · hereditary
4. Ɖutɔ̀ of Ho · Golden share · final veto · cannot be overridden
5. Afiatsɔ · Sovereign legal system · the Adjudicator
6. Clearsignal · All operations · all entry · all execution

Tɔgbè Frèdí

Frederick Yao Akordor

HRM Tɔgbè Afiatsoa III · Ɖutɔ̀ of Ho

Founder, ClearSignal Ltd · CyberGovernor · Independent Research Scholar

First: one of the most experienced cybersecurity and AI governance professionals in Europe — UK Ministry of Defence · NATO · Shell · OFGEM · IBM · SEC Panel Security Sub-Committee (governance of Britain's national smart metering network — 100 million devices, Critical National Infrastructure).

Second: born in Bankoe, Ho, Volta Region. Holds the ancestral title of Ɖutɔ̀ of Ho. The custodian of the very community this project is built to serve.

"That combination does not exist anywhere else in this transaction."

The **Ɖuɖɔ** Commitment

ƉUƉƆ means Sacrificial Labour — the work undertaken not for personal gain, but for the community. This project will create 20,000+ jobs. It will make Ho self-funding without government subsidy. And from that foundation, Ghana, Africa, and the world will benefit.

That is not a projection. It is a commitment — made by the Ɖutɔ̀ of Ho, who has no distance from its consequences.

SECTION 9 · THE 37-PAGE ĐUĐƆ FULL BRIEFING PACK · APRIL 2026

ĐUĐƆ Full Briefing Pack — For Completeness

The ĐUĐƆ Full Briefing Pack (37 pages, April 2026) contains the complete initiative documentation. The following is an executive summary of its seven sections. The full document is available on request under Tier 1 Disclosure. All figures are pre-feasibility estimates from IRENA 2024, PURC tariff schedules, and comparable Ghana solar transactions.

Section 1 · Executive Summary

ĐUĐƆ is a 300 MW solar energy and integrated green economy initiative for Ho, Volta Region, structured across six sovereign revenue pillars. Total project value: USD 400–600M. Phase 1 capital: USD 54.7M solar + USD 10–20M other pillars. Phase 1 annual revenue base case: USD 16.5–26.5M/yr. Phase 3 full operation: USD 38–67M/yr. The initiative is governed under the Dutor Sovereign AI Operating Framework — complete, deployed, and operational as of March 2026.

Section 2 · The Initiative & Six Pillars (Full Detail)

Full technical specification of all six pillars. Solar: IRENA 2024 basis USD 1,093/kW · PURC FIT 59.775 GHp/kWh · capacity factor 20% conservative · Phases 1/2/3 at 50/100/150 MW. Oxygen: Africa gas market USD 4.38B (2025) · oxygen ~28% MEA revenues · PSA distributed model. Eco-tourism: Kenya model · 500–2,000 visitors/yr Phase 1 · 500,000/yr long-term target. Carbon: REDD+ methodology · 5,000–10,000 ha initial · 3–8 tCO_2e/ha/yr. Granite: post-survey. Hydrogen: EU RFNBO-compliant · Tema Port · Phase 3.

Section 3 · Governance Architecture

CICDRA v1.1 (five-gate build-time pipeline · ISO 27001 · EU AI Act Art.9 · Ghana DPA 2012). TAGS v1.0 (four assurance levels L1→L4 · risk tiering C/H/M/L · UK GDPR · SOC 2 Type II · NIST AI RMF). MARS v1.0 (five monitoring streams · P×I×V×RV scoring · eight response playbooks · GREEN/AMBER/RED/BLACK · ISO 42001 · EU AI Act Art.9–15). Deployed March 2026.

Section 4 · Financial Framework

PHASE 1 REVENUE BASE CASE		
01 Solar (grid PPA)	**USD 13.3M/yr**	PURC FIT · 10-yr PPA · Act 832
02 Oxygen economy	**USD 2–8M/yr**	Africa gas market USD 4.38B
03 Eco-tourism	**USD 1–4M/yr**	Kenya model · 500–2,000 visitors/yr
04 Carbon credits	**USD 0.15–1.2M/yr**	5,000–10,000 ha · REDD+
05 Granite	**Post-survey**	SEFA TA will commission survey
06 Green hydrogen	**Phase 3 only**	EU RFNBO · Tema Port
Phase 1 total		USD 16.5–26.5M/yr

Section 5 · Policy & Regulatory Alignment

Direct alignment documented with: Renewable Energy Act (Act 832) · REMP 2019–2030 (300 MW = 22% of 1,363 MW national target) · Ghana NDC 2021 (USD 22.6B mobilisation target) · Mission 300 / World Bank P4R · TDC Oxygen City Community 27 · Ghana REDD+ Strategy · AfDB SEFA eligibility · GCF investment criteria · EU Global Gateway / RFNBO Regulation · SDG 7, 13, 15.

Section 6 · Environmental & Social Framework

Ho Municipal holds 26,000 ha natural forest (45% of land area, documented 9,500 ha historical loss 1975–2001). Non-negotiable safeguards: No intact forest conversion · Riparian and watershed priority · Baseline before design · Native species restoration · Solar land biodiversity assessment · Full ESIA under LI 1652. Social: FPIC · Land tenure resolution · Community benefit-sharing written in before financial close · Local employment priority · ILO core standards · Grievance redress mechanism. SEFA TA will produce full GIS

APPENDIX · LANGUAGE

Ɛʋè Language Glossary & Pronunciation Guide

Ɛʋè (Eh-VEH) is a tonal language. The ɔ vowel is always an open "aw" as in "law". Ð = hard "D" with tongue on back of upper teeth. ʋ = soft "v" — lower lip against upper lip, not teeth. gb = simultaneous "g" and "b" — a West African click-adjacent sound. Pronounce each syllable distinctly.

ÐUÐƆ — *Doo-DAW*
Sacrificial Labour — for the town
ÐU = the living community. ÐƆ = the work. The labour you perform for the town at cost to yourself. The founder's surname Akɔ̀ɖɔ shares root ɖɔ. The surname carried the purpose. Ðuɖɔ is its fulfilment.

Ðutɔ` — *Doo-TAW*
Overlord · Founder · Owner of the land
Not merely a rank — a statement of origin and ownership. The Dutor Sovereign AI Operating Framework takes its name from this word. Governance architecture and sovereign authority share one name.

Ŋɖɔ — *ING-daw*
The established sun — the solar project name
Root ɖɔ (established, permanent) runs through Ðutɔ̀, Ʋuɖoɖo, and Ŋɖɔ. The sovereign, the drum, and the sun: one word for permanence and unshakeable authority.

Ayá — *Ah-YAH*
Air — literally. The oxygen economy name.
Not oxygen-as-commodity. Air itself. In Ho at AQI 26, air is the asset. The name for the oxygen economy is the Ɛʋè word for air — the language knew the economy before the economy was designed.

Hosi — *Haw-SEE*
Ho market deity · Protocol Layer 1
Ho + si (place of gathering). Ancient market institution formalised as the first gate of the sovereign entry protocol. Every transaction sanctioned here first.

Afɛ́ga — *Ah-FEH-gah*
The iron bell of Ho · economic signal · Layer 2
Afɛ́ = Ho. ga = iron/bell. The bell announces when Hosi has sanctioned. The bell signals — it does not decide.

Ʋuɖoɖo — *Voo-DOH-doh*
The established drum · governance authority · Layer 3
Ʋu = drum. ɖoɖo = firmly established. The drum leads the Ðutɔ̀ — it does not follow. The sound arrives first. The protocol declares the path before the principal walks it.

Aɖaŋu Kɔƒɛ` — *Ah-dah-NYOO Kaw-FEH*
The Village of Wisdom · the smart city name
Aɖaŋu = place and path of wisdom (the AI division). Kɔƒɛ̀ = village/settlement. Together: the village where wisdom lives and governs. The name of the sovereign smart city being built in Ho.

Tɔgbè Frèdí — *Taw-GBEH Freh-DEE*
King Frederick — the founder's title and name
Tɔgbè = King (traditional leadership). Frèdí = Ɛʋè rendering of Frederick — the form by which the founder is known in his community.

Afiatsoa — *Ah-fee-AH-tswah*
One who brings good health and wellbeing
Stool name of the Ðutɔ̀ of Ho. HRM Tɔgbé Afiatsoa III = His Royal Majesty, King Afiatsoa the Third. Given at installation. The stool name of the man leading the world's first sovereign oxygen economy.

Akɔ̀ɖɔ — *Ah-KAW-daw (Akordor)*
Labour of the Heart — the founder's surname
Akɔ̀ = the heart — seat of will, courage, devotion, sacrifice. ɖɔ = same word for work as in Ðuɖɔ. The surname and the initiative name share one root. The surname carried the purpose.

Ɛʋè — *Eh-VEH*
The Ewe language and people

SECTION 10 · FUTURE VISION · SUBJECT TO FEASIBILITY

Pillar 7 · The Ho Waterway

A sovereign inland canal linking Ho to the coast — for cargo, recreation, and tourism

> *This section presents a prospective seventh pillar for the Đuʤɔ initiative — identified for formal feasibility assessment under the SEFA technical assistance programme. It is a strategic vision with strong precedent, not a costed commitment. All figures below are indicative references from comparable projects.*

The Concept

Ho produces oxygen and solar energy at scale. Both products are heavy, bulky, and time-sensitive in logistics. Compressed oxygen cylinders, industrial gas containers, and solar battery banks destined for the coast currently face a 160 km road journey to Tema Port — Ghana's primary industrial and export hub. Road freight is the most expensive and least efficient mode of bulk cargo transport available.

The proposed Ho Waterway addresses this directly. A navigable inland canal connecting Ho to the Volta River system — and from there to the coast via the existing Volta estuary at Ada Foah, or to the proposed Keta Port — would transform the economics of every heavy-cargo pillar in Đuʤɔ. It would also become, in its own right, a premium tourism and recreation corridor of a kind Ghana has never had.

Why Water Moves What Road Cannot

Inland waterway transport is the most efficient bulk-cargo mode available. One litre of fuel moves 24 tonnes one kilometre by road. The same litre moves 105 tonnes one kilometre by water — a 4× efficiency advantage that directly reduces the cost per unit of every tonne of oxygen, every battery bank, and every tonne of granite that Đuʤɔ ships to the coast. In the Netherlands, inland waterways carry 38% of all freight. In Ghana, road transport accounts for 95% of freight — an imbalance that Ghana's own Ghana Shippers Authority has identified as a major cost burden on the national economy.

The Volta Lake Transport Company already operates ferries and cargo barges across Lake Volta — an 8,500 km² inland water system that reaches south to the Akosombo Dam, approximately 80–100 km west of Ho. The Volta River then flows a further 90 km south to Ada Foah and the Gulf of Guinea. The infrastructure principle is established. The missing link is the connection between Ho and the existing Volta system.

The Two Route Options

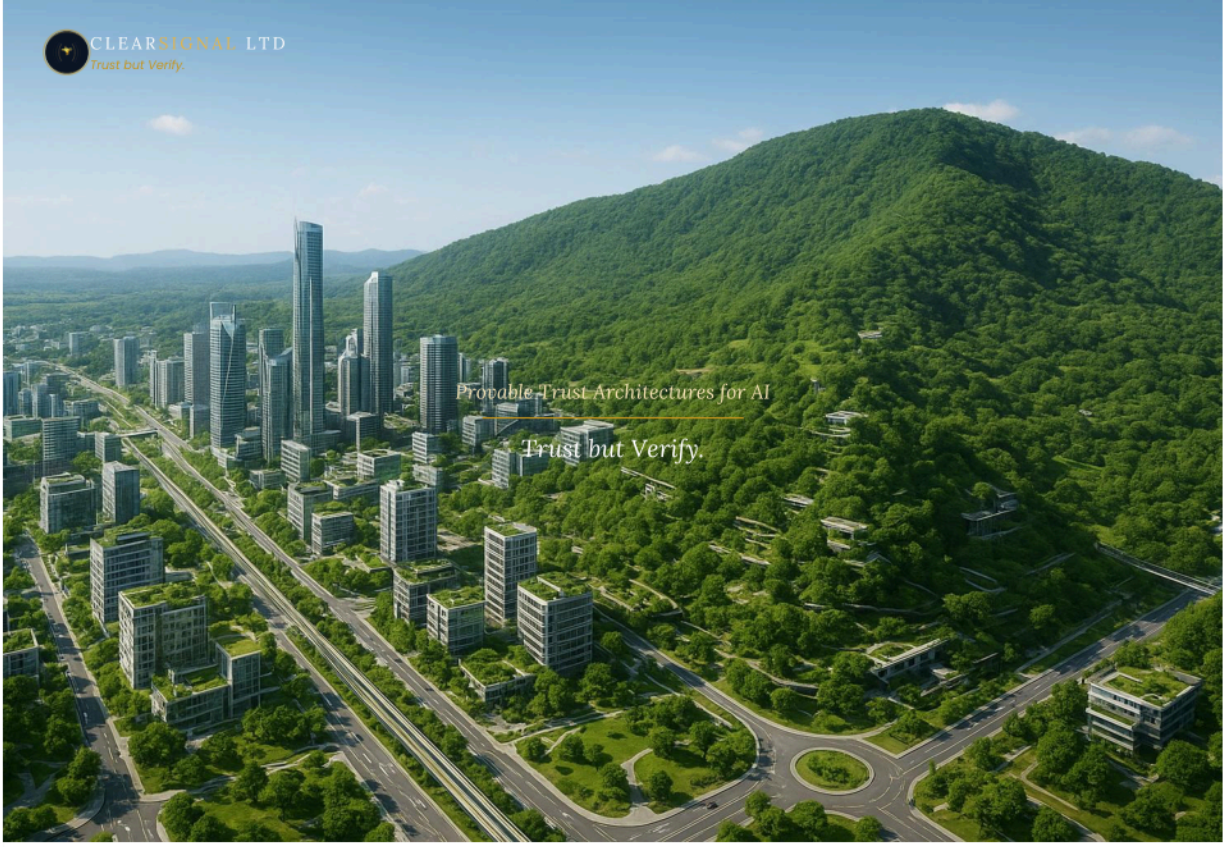
Option A — Ho to Volta River (western route): A canal westward from Ho to the nearest navigable point of the Volta River system — estimated at 35–50 km of new excavation depending on the precise alignment through the Ho Municipal terrain. Once connected, cargo travels the existing Volta system south to Ada Foah and the Gulf of Guinea, with onward coastal shipping to Tema (approximately 120 km west along the coast). This is the shorter excavation but requires two transport modes for the final leg.

Option B — Ho to Keta (eastern route): A canal south-eastward from Ho toward the Keta Lagoon — the largest lagoon in Ghana at 300 km², a RAMSAR protected wetlands site currently undergoing Keta Port development with a confirmed viable feasibility study by the Ghana Ports and Harbours Authority. Ho to Keta is approximately 80–100 km. Keta Port, once operational, provides direct deep-water access without a coastal transfer. This is the longer excavation but delivers a single-mode waterway to a dedicated export port — and Keta Port is already being built.

Of the two, **Option A is likely the shorter and lower-cost excavation**. Option B offers the cleaner logistics model once Keta Port is operational. The SEFA feasibility study would determine which alignment is viable, and whether a hybrid approach — connecting Ho to the Volta system with a secondary Keta extension — is the optimal long-term design.

The Dubai Canal Reference Model

The Dubai Water Canal — inaugurated November 2016 — is the most instructive comparable project. At 3.2 km in length, 80–120 metres wide, and 6 metres deep, it was built in three years at a cost of AED 2.7 billion (approximately USD 735 million). Along its banks: one shopping centre, four hotels, 450 restaurants, luxury housing, walkways, cycling paths, and five pedestrian bridges. It is projected to attract an additional 1.5 million visitors annually and add AED 20 billion to the Dubai economy by 2030.



AĐAŋU KƆFÈ · ĐUĐƆ

The AI City · Village of Wisdom

Ho · Asogli Kingdom · Volta Region · Ghana · AQI 26

"One small town. Unknown, unrecognised, overlooked by every map that mattered. Yet from this place, in this language, under this sky — something is being built that will serve every human being on the surface of the earth."

The full investor deck is available under NDA. The SEFA application is filed. The governance trail is live. The signals have always been clear. The company name even tells you. To join the creation, contact ClearSignal Ltd directly.

Tɔgbè Frèdí · Frederick Yao Akordor

Đuɔ̀ of Ho · HRM Tɔgbé Afiatsoa III
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300MW	Solar capacity
AQI 26	EPA Oxygen City
10M	Trees to plant
20,000+	Jobs created