

Côte d'Ivoire

TransEnergies

”Architects of a Sustainable Future”

Carbon Capture & Net Zero Solutions

01 BP 10155 Abidjan 01, Côte d'Ivoire
+225 0757634610 | supportNetzero@transenergies.com

Strategic Presentation

June 2026

Strategic Framework



Who We Are

Company profile & mission



Carbon Capture Opportunities

Industrial CCUS landscape



Industrial Decarbonization

Sector transformation pathways



Strategic Roadmap

2025-2035 implementation



National Climate Context

NDC 3.0 commitments & targets



Nature-Based Solutions

Reforestation & clean cooking



Carbon Markets & Finance

Monetization opportunities



Partnership Framework

Call to action & collaboration

Who We Are

TransEnergies

”Architects of a Sustainable Future”

We are the architects of a sustainable future, specializing in creating innovative solutions to reduce carbon emissions. As trusted partners of businesses, governments, international institutions, and communities, we design and implement customized decarbonization strategies. Together, we build a cleaner, more durable world.

Our Mission

To accelerate Côte d'Ivoire's transition to a low-carbon economy through innovative technologies, strategic partnerships, and community-centered solutions that deliver measurable environmental and social impact.

Core Capabilities



Strategic Advisory

Net Zero pathway design & decarbonization planning



Industrial Solutions

CCUS, energy efficiency & process optimization



Nature-Based Solutions

Reforestation, agroforestry & carbon sequestration



Clean Cooking

Improved cookstoves & domestic emission reduction



Carbon Finance

Credit generation, MRV systems & market access

Contact Information



01 BP 10155 Abidjan 01



+225 0757634610



supportNetzero@transenergies.com



transenergies.com

Our Services



Emission Assessment

Comprehensive carbon footprint analysis across all sectors to establish baselines and identify reduction opportunities.

- ✓ Sector-specific GHG inventories
- ✓ Opportunity identification
- ✓ MRV system design



Training

Capacity building programs to empower organizations with knowledge and skills for sustainable decarbonization.

- ✓ Sustainability training programs
- ✓ Best practices workshops
- ✓ Certification support



Net Zero Strategies

Tailored action plans integrating technologies and sustainable solutions to achieve Net Zero emissions targets.

- ✓ Roadmap development
- ✓ Technology integration
- ✓ Progress monitoring



Carbon Finance & Markets

Navigate carbon markets to monetize emission reductions and access climate finance mechanisms.

- ✓ Credit generation
- ✓ Market access
- ✓ Article 6 support
- ✓ ACMI integration



Clean Cooking Solutions

Deploy improved cookstoves to reduce domestic emissions, improve health, and combat deforestation.

- ✓ Stove distribution
- ✓ Community programs
- ✓ Health benefits
- ✓ Deforestation reduction

Sectors of Intervention



Oil & Gas Industry

Industrie Pétrolière

Comprehensive carbon emission reduction throughout the entire value chain, from extraction to distribution.

- Process optimization and efficient resource management
- Methane leak detection and reduction programs
- Flare gas recovery and utilization systems



Mining Industry

Industrie Minière

Strategies to minimize environmental impact while adopting cleaner and more sustainable technologies.

- Environmental impact assessment and mitigation
- Clean technology adoption and integration
- Waste management and rehabilitation programs



Chemical Industry

Industrie Chimique

Reduction of emissions linked to production processes through sustainable operational practices.

- Production process emission reduction
- Sustainable practices integration
- Circular economy implementation



Cement Plants

Cimenteries

Carbon footprint reduction in cement production through process optimization and alternative fuels.

- Clinker substitution with calcined clay (LC3)
- Alternative fuel adoption (biomass, waste)
- Carbon capture pilot implementation



Responsible Commitment: Our holistic approach and commitment to social responsibility maximize our positive impact on the environment and society.

Côte d'Ivoire's Climate Ambition



NDC 3.0 Commitments

Submitted October 2025

33% by 2035

Unconditional GHG Reduction
vs. business-as-usual scenario

74% by 2035

Conditional Reduction
with international support

Key Sectoral Targets



Renewable Energy
46% by 2035 (from 38% in 2023)



Forest Cover
11% → 20% by 2040



Clean Cooking
2/3 of households by 2030



Industry Efficiency
30% cut in energy intensity

Current Emissions Profile

Gross GHG (2023) 32.9 MtCO₂eq

Net GHG (incl. LULUCF) 58.9 MtCO₂eq

Growth (2014-2023) +39%

Emissions driven by deforestation (44% of total) and energy sector expansion.

\$ Investment Requirements

Unconditional \$10.6B

Conditional \$48.2B

Note: Côte d'Ivoire contributes only 0.1% of global emissions but has established strong commitments aligned with Paris Agreement goals.

Carbon Capture Landscape

Priority Industrial Sectors



Cement Plants

Abidjan, San Pedro — 7–8% of global CO₂ emissions

Post-combustion

Oxy-fuel

Mineral carbonation



Oil & Gas

Foula, Baleine, CI-27, CI-26 — Methane & process emissions

Methane reduction

Flare recovery



Thermal Power Plants

Azito, CIPREL, Atinkou — Flue gas capture

Flue gas capture

Efficiency

 **Short-term Priority:** Low-cost capture pilots at 5–20 kt CO₂/year at cement and gas-fired plants, leveraging proven amine-based post-combustion technology (TRL 9).

Feasible Technologies

- 1 Post-Combustion Capture**
Amine-based absorption for flue gas
- 2 Oxy-Fuel Combustion**
Pure oxygen for cement kilns
- 3 Mineral Carbonation**
Cement & mining waste utilization
- 4 BECCS**
Bio-energy with carbon capture

Global CCUS Context

-  **50 Mt** new capacity under construction (2025)
-  **28%** of global emissions covered by carbon pricing
-  EU CBAM motivating new carbon markets
-  France: **€1.6B** for 7 industrial CCUS hubs

Nature-Based Solutions & Clean Cooking



Nature-Based Carbon Capture

Côte d'Ivoire has **high potential** for nature-based solutions, with the potential to sequester **2-5 million tCO₂/year** by 2030 through structured programs.



Reforestation & Afforestation

Forest cover increase from 11% to 20% by 2040



Mangrove Restoration

Grand-Lahou, Assinie — Coastal protection + carbon



Agroforestry (Cocoa Belt)

Sustainable cocoa production with carbon benefits



Soil Carbon Programs

Agricultural land management for carbon sequestration

Performance Potential

2-5 MtCO₂/year

by 2030 with structured programs and international financing



Clean Cooking Transition

70%+ of households

still use biomass (wood, charcoal) for cooking, causing **deforestation, health issues, and GHG emissions**.



Fastest carbon reduction lever with strong social impact



Improved Cookstoves

60% wood savings, reduced emissions (Eni: 2.5M people in 7 years)



LPG Expansion

National scale-up to 2/3 of households by 2030



Ethanol & Biogas Pilots

Advanced systems using agricultural waste

Performance Potential

1-3 MtCO₂/year

✓ Health improvement

✓ Women's time savings

✓ Deforestation reduction

✓ Carbon credit revenue



Industrial Decarbonization & Energy



Industrial Decarbonization

Heavy industry emission reduction

1

Energy Efficiency

10–20% reduction through process optimization, equipment upgrades, and digital monitoring

2

Waste Heat Recovery

Cement and mining sectors — capture and reuse thermal energy from industrial processes

3

Process Electrification

Replace fossil fuel-powered processes with electric alternatives where feasible

4

Renewable Integration

Solar hybridization for industrial facilities — on-site PV + battery storage

5

Carbon Capture Pilots

5–20 kt CO₂/year pilot projects at cement and gas-fired plants

Expected Performance

15–30%

emission reduction in heavy industry by 2030



Energy Transformation

Power sector decarbonization



Gas-to-Power Optimization

Improve efficiency of existing natural gas power plants while transitioning to renewables



Solar PV Expansion

Large-scale solar farms in Boundiali, Korhogo, Odienné — target 46% renewable by 2035



Grid Modernization

Smart grid infrastructure to integrate variable renewable energy sources



Green Hydrogen

Feasibility studies for post-2035 deployment in industrial applications

Expected Performance

20–25%

reduction in power-sector emissions



Concrete Example: Cimpor calcined clay project in Abidjan with Oyak — substituting clinker with LC3 to reduce cement emissions by up to **40%**.

Carbon Markets & Finance

Carbon Market Mechanisms

- **Article 6 Bilateral Agreements**
ITMO transfers under Paris Agreement. Bureau du Marché Carbone (BMC) established in 2024 to regulate and authorize carbon credit transactions.
- **Voluntary Carbon Markets**
VERRA (VCS) and Gold Standard certification for high-integrity carbon credits from forestry, clean cooking, and renewable energy projects.
- **African Carbon Markets Initiative**
ACMI collaboration to develop carbon market activation plans (CMAPs), build MRV capacity, and connect African projects with international buyers.

Types of Carbon Credits

- **Forestry Credits**
REDD+, afforestation
- **Clean Cooking Credits**
Improved stoves
- **Methane Reduction**
O&G, waste, agriculture
- **Renewable Energy**
Solar, wind, hydro

Financial Potential

Carbon Finance Inflow by 2030

\$50-150M
per year

Forestry credits	\$20-60M
Clean cooking	\$15-45M
Industrial projects	\$10-30M
Renewable energy	\$5-15M

Waste & Urban Emissions

- **Landfill Methane Capture**
Akouédo, Kossihouen
- **Composting & Biomethanization**
Organic waste valorization
- **Waste-to-Energy Pilots**
Electricity from municipal waste
- **Potential: 500K-1M tCO₂/year avoided**

Strategic Roadmap 2025-2035



Foundation

2025-2027

Establish the institutional, technical, and financial foundation for large-scale decarbonization programs.

- ✓ **National MRV System**
Deploy digital monitoring, reporting, and verification infrastructure
- ✓ **Forestry Scaling**
Mangrove restoration and reforestation programs

- ✓ **Industrial Audits**
Comprehensive assessments of cement, mining, and O&G sectors

- ✓ **Carbon Market Registration**
Bureau du Marché Carbone operational, first projects registered

- ✓ **Clean Cooking Rollout**
Mass distribution of improved cookstoves to 1M+ households
- ✓ **Policy Framework**
Strengthen climate change law and NDC implementation



Acceleration

2028-2032

Scale up proven technologies and launch large-scale carbon reduction projects.

- 🔧 **Carbon capture pilots** at cement and power plants (5-20 kt CO₂/year)
- 🔌 **Renewable energy expansion** – 500+ MW solar PV capacity
- 🏭 **Industrial electrification** programs in mining and manufacturing
- 📈 **Large-scale carbon projects** generating 1-5 MtCO₂/year



Net Zero Pathway

2033-2035

Achieve deep decarbonization and establish Côte d'Ivoire as a carbon-neutral economy leader.

- ✓ **Full CCUS integration** at major industrial facilities
- ✓ **Green hydrogen feasibility** for industrial applications
- ✓ **National carbon credit exchange** operational
- ✓ **Deep decarbonization** of heavy industry (30%+ reduction)

Partnership for a Net Zero Côte d'Ivoire

Let's Build a Sustainable Future Together

TransEnergies is ready to partner with government, industry, and international financiers to deliver Côte d'Ivoire's climate ambitions. Together, we can achieve **carbon neutrality by 2050**.



Strategic Partnerships

Collaborate with government, industry, and international organizations



Proven Expertise

End-to-end decarbonization solutions across multiple sectors



Local Impact

Community-centered solutions with measurable environmental benefits

Contact TransEnergies

📍 01 BP 10155 Abidjan 01, Côte d'Ivoire

✉ supportNetzero@transenergies.com

☎ +225 0757634610 / +225 0504162760

🌐 <https://sites.google.com/transenergies.com>

TransEnergies

”Architects of a Sustainable Future”