



DECARBONIZING AVIATION AND SHIPPING WITH E-FUELS

Nearly a quarter of global CO₂ emissions comes from the transportation sector. To tackle this challenge, **HDF Energy is developing a portfolio of e-fuel projects** to decarbonize maritime and aviation transport. These hard-to-abate sectors require **industrial-scale solutions** to reduce their heavy greenhouse gas emissions, and e-fuels offer a viable path forward.

A GAME-CHANGING MARKET OPPORTUNITY

Driven by ambitious international and European regulations, mandatory incorporation of green fuels creates a market for sustainable fuels.



AVIATION

- RED III & ReFuelEU driving e-SAF deployment
- **1.2% e-SAF** incorporation by 2030, representing **~550,000 tons/year**



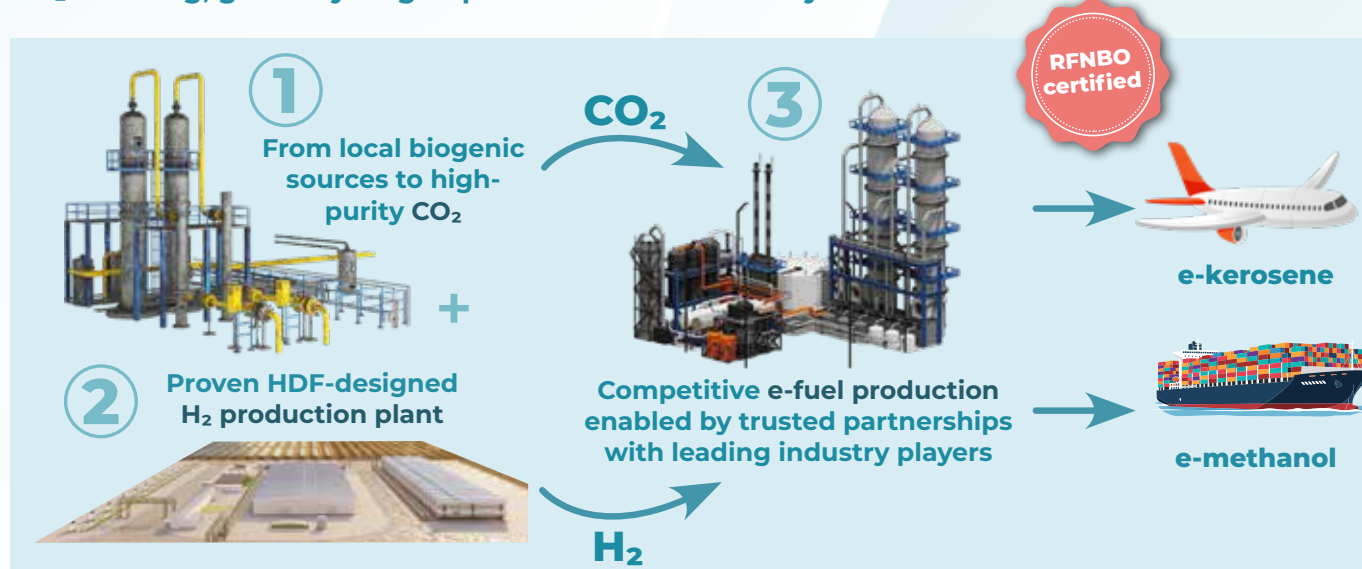
MARITIME

- FuelEU Maritime & ongoing IMO regulations reshaping maritime fuel standards
- **14.5% GHG reduction target** for vessels by 2030

These policies, with penalties for non-compliance, ensure a rapidly growing market for cleaner fuels in both aviation and shipping – a market that HDF Energy is ready to serve with its e-fuel projects.

HDF ENERGY'S SOLUTION

To meet this growing demand, HDF Energy is developing e-fuel projects certified as RFNBOs (Renewable Fuels of Non-Biological Origin) under strict EU regulations, and fully compliant with international standards. **HDF Energy's projects cover the full value chain of e-fuel production: CO₂ sourcing, green hydrogen production and e-fuel synthesis.**



OUR DNA AND STRENGTHS

Founded in 2012, HDF Energy is a leading global player in the hydrogen industry, **leveraging its proven expertise in the development of large-scale hydrogen infrastructure projects** and advanced multi-megawatt fuel cell technologies.

Our projects are driven by a dedicated in-house team bringing together strategic vision, **technical excellence, project finance, regulatory know-how, and business development expertise.**

Headquartered in France, HDF Energy operates through **a strong international presence**, with regional offices across Latin America, the Caribbean, Africa, and the Asia-Pacific region.

Building on our well-established experience in hydrogen infrastructure development, we apply proven methodologies and industrial know-how to deliver robust, bankable projects worldwide.



OUR FLAGSHIP HYDROGEN PROJECT REFERENCES

CEOG (French Guiana)

- Non-intermittent renewable energy generation through substantial energy storage in the form of green hydrogen
- **H₂ production: 600 tonnes/year**



Electrolysers
16 MW

Total investment: **170 M€**
Commissioning: **2026**

OFFTAKER



EQUITY INVESTORS



EPC



LENDERS



NEWGEN (Trinidad & Tobago)

- Hydrogen production for an ammonia facility
- **H₂ production: 20,000 tonnes/year**



Electrolysers
130 MW

Total investment: **250 M€**
Estimated FID: **2026**

PROJECT DEVELOPERS



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