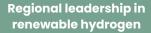




# Decarbonisation of the Seine-North Europe Canal via H2

## The Seine-North Europe Canal (CSNE): a game-changer

- Length: 107 km, connecting Compiègne to Aubencheul-au-Bac.
- Purpose: link France's waterway network to the European inland system.
- Impact: transform freight logistics, boost economic efficiency, and decarbonize transport.



Hauts-de-France hydrogen roadmap:

- 1. Production & infrastructure: building robust hydrogen ecosystems.
- 2. Mobility: decarbonizing freight and logistics.
- 3. Economic growth: driving innovation and iob creation.

## Success factors for 2030

#### **Technological readiness:**

- Hydrogen fuel cells and storage for maritime use.
- Efficient integration with canal logistics.

## Policy support:

- Regulatory frameworks for hydrogen adoption.
- Financial incentives to promote strategic collaboration.

#### Strategic collaboration:

- Strengthen public-private partnerships.
- Develop replicable models for hydrogen transport across Europe.







#### Hydrogen propulsion offers:

- Clean energy: zero-emission alternative to
- High scalability: suitable for long-range, heavy freight operations.
- Energy synergy: leverages renewable sources (wind, nuclear, biomass).
- Modular infrastructure: strategic refueling points integrated with industrial hubs (e.g., Plastic Omnium in Compiègne).



### Pilot study objectives:

- Infrastructure needs: plan hydrogen production, storage, and refuelling.
- Stakeholder engagement: align industry and policy efforts.
- Economic analysis: prove costeffectiveness versus diesel.
- **Environmental impact**: assess emissions reduction and quality improvements.



The Seine-North Europe Canal is poised to become a cornerstone of Europe's energy transition, setting the standard for sustainable waterway transport. Together, we can:

- Achieve carbon neutrality.
- Drive economic innovation.
- Build a cleaner, greener future.





