

Green¹ Ammonia Certification

Eneus Energy – Power to ammonia & hydrogen
Ammonia Energy Association Conference
17 November 2020

Delivering green ammonia and reducing the cost of hydrogen for **zero** carbon transport, power and energy storage

[Learn More](#)

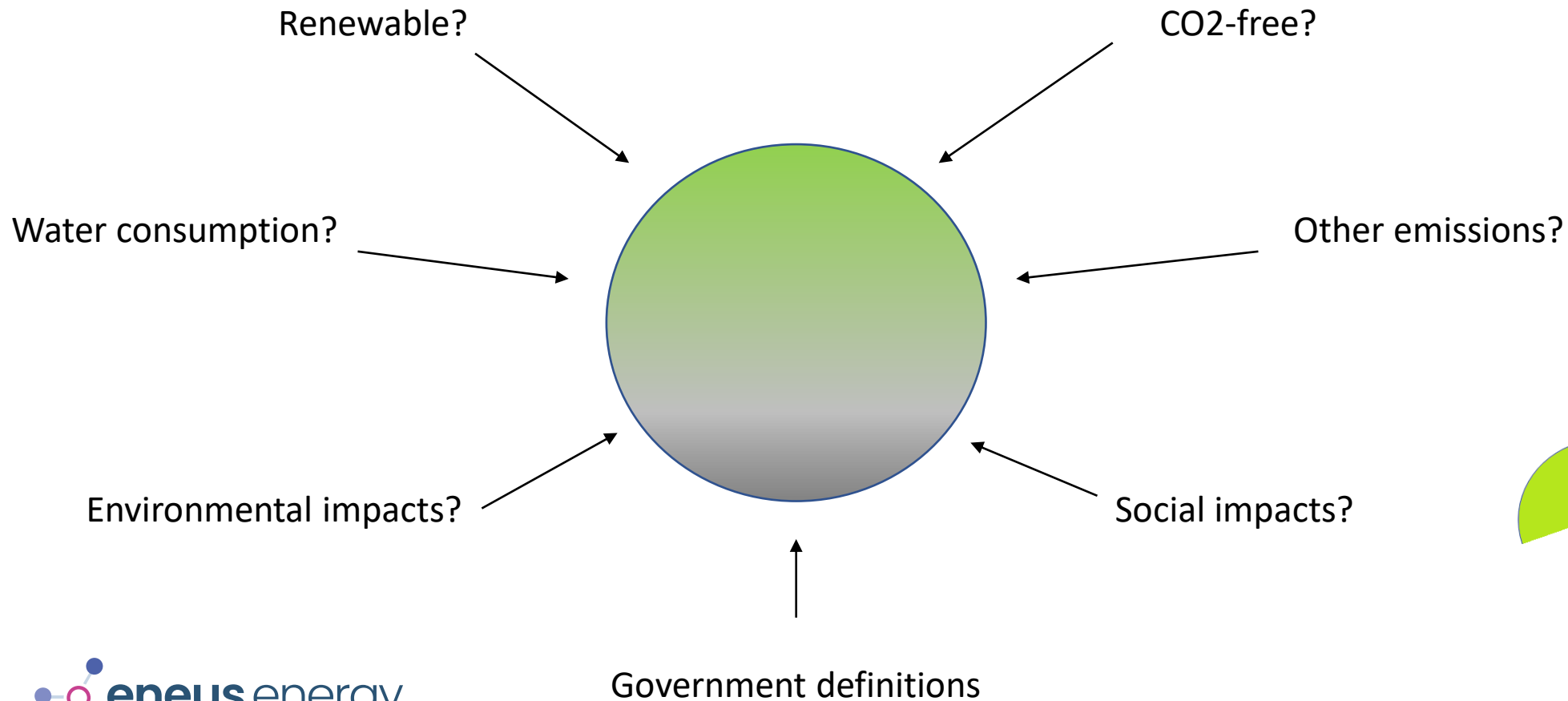
Who are we?



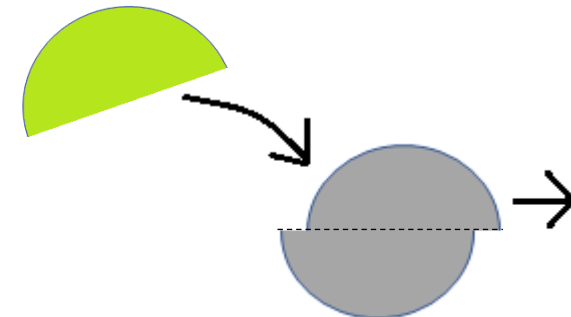
Eneus Energy integrates existing, proven industrial technologies to produce 'green' ammonia (NH_3) using only water, air and renewable energy. This reduces the carbon footprint of green ammonia (and its constituent gases) to zero.

Factors to consider in a “green” product

Or do we focus solely on low- or zero-carbon?

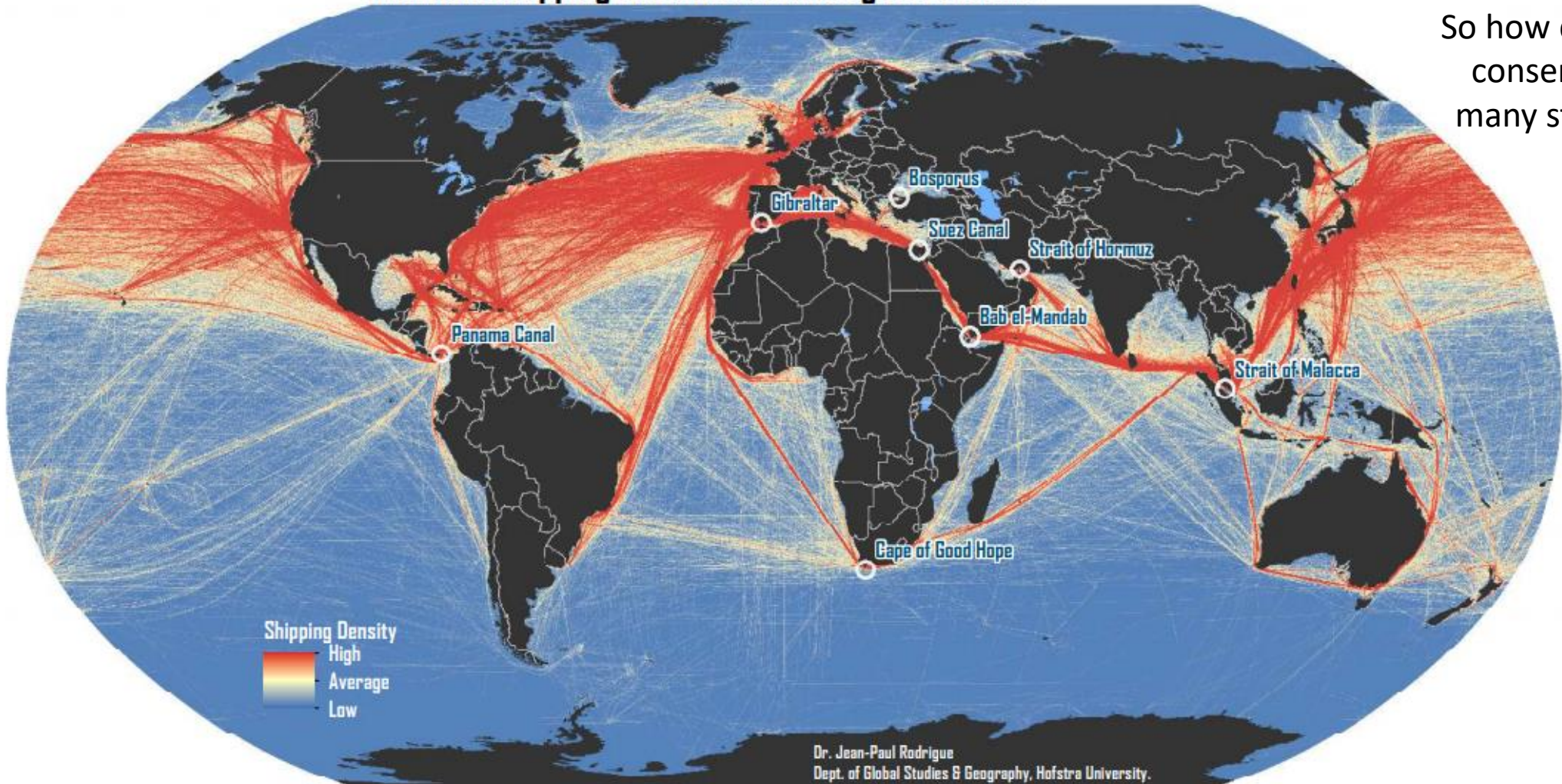


And what if it wasn't always green?



The potential market for “green” ammonia is inherently global

Maritime Shipping Routes and Strategic Locations



So how do we reach consensus with so many stakeholders?



Dr. Jean-Paul Rodrigue
Dept. of Global Studies & Geography, Hofstra University.

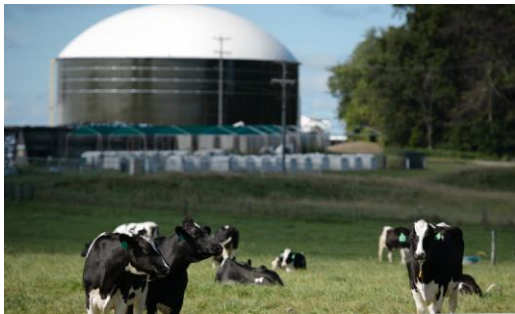
Source: Shipping density data adapted from National Center for Ecological Analysis and Synthesis, A Global Map of Human Impacts to Marine Ecosystems.

Storage and Transportation of NH₃



Anhydrous ammonia is one of the most produced commodities globally. The global ammonia sector has a robust storage and transportation infrastructure (truck, rail, pipeline, barges and ships), and an established health and safety regime. Ammonia is shipped globally today.

Potential complexity of carbon intensity calculations



With numerous potential sources of supply, and numerous potential modes of transportation, calculating a CI score could become complicated quickly.



Some considerations for discussion: severability, proportionality, sole claimant

Severability

The ammonia and the credit can be bought and sold separately

Proportionality

The percentage of qualifying electricity determines the percentage of qualifying ammonia

Sole claimant

Though the credit may be transferred multiple times, only one party may claim the environmental attributes of the credit

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