

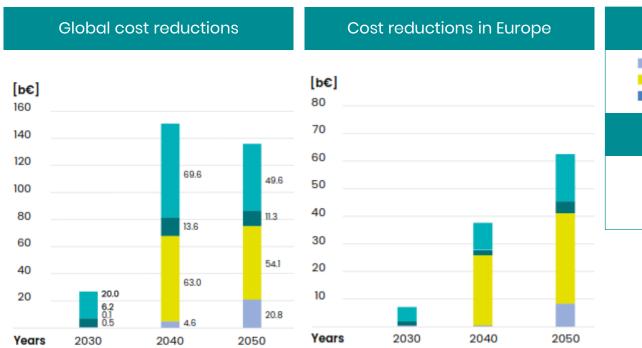
# From prosumer to consumer to prosumer? The perspective of future energy supply and consumption

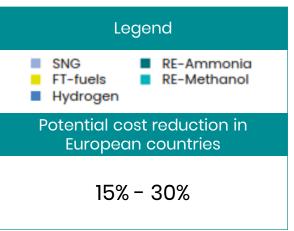
Past Present **Future** 

- Local Prosumer
- Local Consumption
- Energy Hub: Production and Distribution
- Energy Hub Prosumer: Production, Distribution, Consumption



## Global trade results in significant cost savings compared to a self-supply scenario









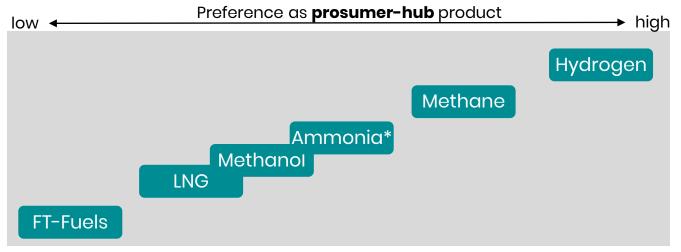
### Globale trade & hubs

### Which powerfuels will be traded? Which ones "prosumed"?

Efforts long distance transport

Additional **technical efforts** – infrastructure and transport

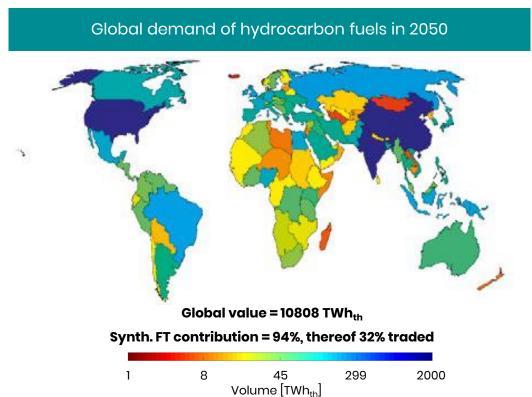
Advantage **proximity** production-processing-consumption

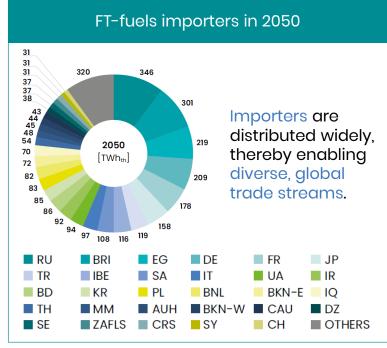


<sup>\*</sup>efforts depend on the final use case



## Powerfuels markets are highly diverse Diversity enables global trade streams









### Energy hubs and powerfuels How can they benefit from each other?

Powerfuel markets - How can hubs respond?

Hubs - How can they foster powerfuel markets?

#### Old hubs and new locations

- How can mature hubs adapt ?
- What support and especially regulation should politics provide?
- What will become new locations for hubs? How can industry and politics support these hubs?
- What sustainability criteria have to be considered?
- More than exporting?
   New energy world new added value.

### **Push of powerfuels**

- + How can (muture) hubs coordinate and cooperate to foster a market development for powerfuels?
- Can the proximity of production and consumption create competitive advantages?
- + How can policy accompany initiatives of industry within and between hubs?



# Key findings



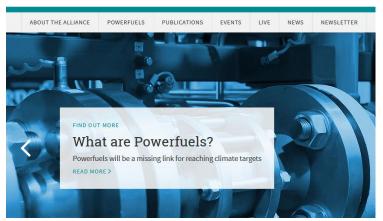
- Future energy world creates new energy hubs
- Additional factors will play a key role for new locations and mature hubs
- Sustainability criteria and vertical added value have to be considered from the beginning
- Mature energy hubs has the chance to find a new role; cooperation could strenghten first powerfuel demand

- **Energy Supply**
- CO<sub>2</sub> availability DAC/Point Sources
- Water supply
- Trade and Export Infrastructure
- Energy and communication infrastructure
- Skilled labour
- Political stability
- Investment and planning security
- Consumption: framework for synergies of different industries

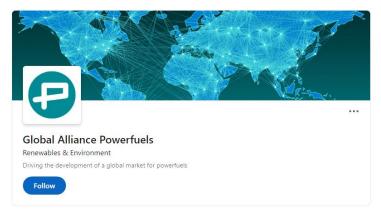
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#### About us

The strategic objective of the Alliance is to foster the development of a global market for powerfuels. The Alliance has three main goals: Raise awareness and acceptance of powerfuels as missing link to reach global climate targets; Support the further enhancement of regulatory frameworks with a first focus on Europe as demand region; Stimulate project development to globally enable production capacities on industrial scale, thus increasing cost competitiveness with fossil fuels.

