

# Welcome to Liquid Wind

## Liquid Wind eMethanol

- EnergiForsk Frukostseminarium Vätgas
- 3 december 2020



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# Liquid Wind concept & Vision

Liquid Wind develops e-fuel facilities to

- increase supply of electro-fuel
- reduce CO<sub>2</sub>

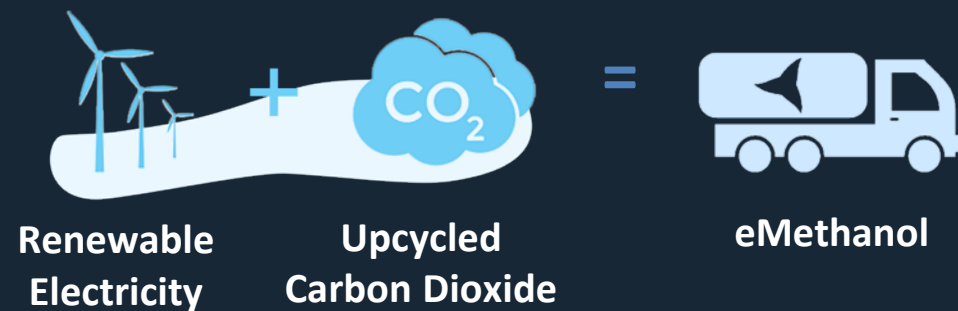
Each standard facility:

**Generates:**

- **50 000 Tons eMethanol /year**

**Reduces:**

- **100 000 Tons fossil CO<sub>2</sub> emission /year**



## Establishing commercial-scale facilities

- |              |  |
|--------------|--|
| <b>2024</b>  | First operational facility in Sweden                               |
| <b>2030</b>  | Optimize and build 5 additional facilities in Scandinavia by 2030. |
| <b>2030+</b> | Replicate internationally to 500 facilities                        |



# The Problem

99.9% of marine fuels are fossil based

Mandated CO<sub>2</sub> reduction, 50% by 2050

Lack of viable, low-carbon fuel

Industry is looking for a solution, now



Source: UNCTAD - Review of Maritime Transport 2019

# eMethanol – scalable path to carbon neutral shipping

## Ready to use marine fuel

- Enables carbon neutral operation
- No SOx, low NOx, no particles
- IMO compliant
- Proven performance
- +50% engine efficiency

## Low barriers for implementation

- Compatible with existing infrastructure, minor modifications
- Liquid – easier to store, transport and use
- Low marine toxicity
- Easy transition pathway via blue methanol as green scales
- Commercially ready (TRL 7-8)

# The change is coming...

**Splash**  
247.com

## Maersk throws weight behind renewable methanol as a fuel of the future

 Sam Chambers • May 26, 2020

3 248 3 minutes read



## IMO guidelines on use of methanol as a marine fuel to boost demand

TAGS: [ALTERNATIVE FUELS](#) [GHG](#) [IMO](#) [EUROPE](#)



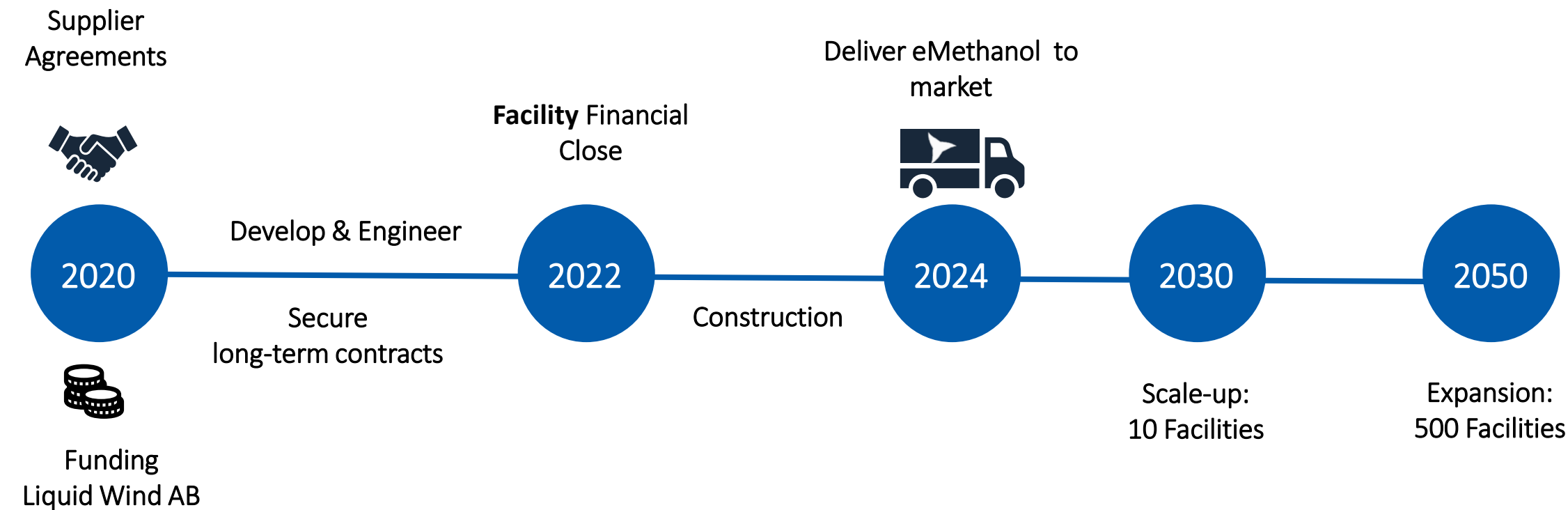
Marcus Hand | Nov 10, 2020

## Methanol-fuelled fleet swells as Waterfront fleet renewal continues with eight new orders



by ShipInsight — December 2, 2020 in Shipbuilding, design and repair

# Bringing eMethanol to market at scale







**Liquid  
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**Join us**

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