

# **Alternative Fuels for International Shipping - Some Guidance and Background for Today's Decision Making**

## **GMW-C 2020 Fact Book**

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# ***Alternative Fuels for International Shipping - Some Guidance and Background for Today's Decision Making - Main Chapters -***

- The types for fuel alternatives in shipping:
  - Evaluated alternative fuels:
    - Gases: LNG, LPG, Hydrogen, Ammonia, Power to Gas fuels
    - Liquids: Methanol/Ethanol, Bio fuel, Power to Liquid fuels
- The costs for PtX fuels in shipping
  - Evaluated fuels:
    - Gases: Methane, Hydrogen, Ammonia
    - Liquids: Methanol, Fischer Tropsch Diesel
- The scope of the problem and the two-percent-club
  - Illustration of the overall task to reduce GHG emissions
- Legal situation for shipping
  - Status at IMO with background and interpretation
- Evaluation of additional GHG emissions from Methane as ship fuel
  - How big is the problem?
- Fleet structure, LNG fuel pricing and CO2 reduction
  - Which parts of international shipping play a role for GHG reduction?
  - How competitive is LNG on the long run?
  - What are the long term cost which have to be expected?
- Outlook towards the fuels used by shipping within the next decades
  - What is happening and what will happen?
- Annexes including Conclusions Report (Conclusions Report can also be purchased alone)

104 Pages plus annexes  
43 Figures  
13 Tables

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- Figures can be copied from the report.
- Free of charge up to 10 Figures a. Tables can be provided in high resolution on request

Conclusions given for every Chapter

## ***How to get the report***

- Please submit the enclosed order form.
  - 250 \$US for the full report including the Conclusions Report (as annex in the full report)
  - 70 \$US for the Conclusions Report alone  
(**note:** verifications and justifications for the conclusions not included)
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