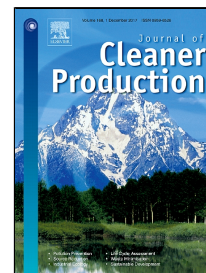


# Accepted Manuscript

Assessment of full life-cycle air emissions of alternative shipping fuels

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PII: S0959-6526(17)32472-1  
DOI: 10.1016/j.jclepro.2017.10.165  
Reference: JCLP 10957  
To appear in: *Journal of Cleaner Production*  
  
Received Date: 21 June 2017  
Revised Date: 09 October 2017  
Accepted Date: 15 October 2017

Please cite this article as: Paul Gilbert, Conor Walsh, Michael Traut, Uchenna Kesieme, Kayvan Pazouki, Alan Murphy, Assessment of full life-cycle air emissions of alternative shipping fuels, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.10.165

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- Alternative shipping fuels are needed to manage climate change and local pollutants
- LCA is used to quantify environmental impacts of current and future fuels
- There is no widely available fuel to manage climate change and local pollutants
- Hydrogen and biofuels have significant impacts upstream in the fuel life-cycle
- Minimising these impacts may reside beyond the scope of the shipping sector alone

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