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C3Or4A-02: Management of Boil-Off-Gas along the LH2 supply chain

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Liquid hydrogen is considered as future energy carrier as well as preferred fuel for future mobility applications on the road, rail, sea and air. The expectation is that large amounts of liquid hydrogen will be transported intracontinentally or even intercontinentally in near future.

As typical for cryogenic fluids, the boil off gas can impact the economics of the transport chain considerably. Therefore, an appropriate management of BOG is necessary.

In first part of this paper, concerns about BOG and main sources of BOG will be considered. In the second part, the strategy for management of BOG will be discussed. In the third part, examples of successful BOG management will be presented, followed by summary and outlook.

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