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# Life Cycle Assessment of Power-to-Methanol – Investigation of Potential Production Sites

Power-to-X technologies are one of the promising solutions for defossilization of the industry and the transportation sector. Among the large variety of possible Power-to-X products, methanol is an outstanding option due to its simple storage and transport, and its use as fuel for transportation (e.g. using fuel cells) or as chemical feedstock for the industry. For the production of renewable methanol, several key factors should be considered such as the renewable energy source, CO<sub>2</sub> source and water availability.

In the scope of this study, a Life Cycle Assessment of Power-to-Methanol shall be conducted using an LCA software. Along with the LCA modelling of the process, potential production sites globally shall be investigated.

**Your profile:**

- Interest in LCA and chemical processes
- Knowledge of Power-to-X technologies, GaBi and GIS software is an advantage, but not mandatory
- Confident use of MS Office
- Good knowledge of English and German

**We offer:**

- Independent work in a young, friendly team
- Cooperation in a research project with partners from industry and science
- The possibility of a parallel employment as HiWi
- Good, free coffee ☺
- Possibility to work on site or from home

**Application:**

If this advertisement has caught your interest or if you have any questions, please send your current application documents (CV, grade transcripts, letter of motivation, ...) to:

[bewerbung-gabi@iabp.uni-stuttgart.de](mailto:bewerbung-gabi@iabp.uni-stuttgart.de)

Department of Life Cycle Engineering (GaBi)  
at IABP offers a

## Master Thesis

for students of

- Verfahrenstechnik
- Umweltschutztechnik
- WASTE

**Start date: immediately**

