



Mathias Ammon | Consultant

Climate friendly local and district heating concepts

Mathias Ammon brings his expertise to Hamburg Institut in the field of climate-friendly local and district heating concepts. He is an expert in the modelling of energy systems and in the design and development of suitable software. Mathias Ammon completed his doctorate in this field on the topic of “Selection and comparison of software for the modelling and optimisation of energy systems” and expects to complete his dissertation this year. He is constantly working on new tools that we can use for our customers and clients in specific projects.

Mathias Ammon has already worked as a research assistant at various institutes of the Technical University of Hamburg. He also completed his Bachelor’s and Master’s degree in energy and environmental engineering here.

Consultancy and research focus

- Software design and development
- Programming and optimisation of energy system models
- Model-based energy system analysis
- Geoinformation systems

Qualification and career

- Since 2023 **Consultant** at Hamburg Institut
- 2018 – 2022 **PhD** in the field of energy system modelling, Institute for Energy Technology at the TU Hamburg, topic: Selection and comparison of software for modelling and optimisation of energy systems
- 2018 – 2022 **Research assistant and doctoral candidate** at the TU Hamburg at the Institute for Energy Technology, doctorate, supervision of student work and lectures
- 2017 – 2018 **Research assistant** at the TU Hamburg at the Institute for Technical Thermodynamics, modelling of thermal fixed-bed storage systems (Modelica and Python)
- 2015 – 2018 **M.Sc. Energy and Environmental Technology**, TU Hamburg
- 2014 – 2015 **Research assistant** at the TU Hamburg at the Institut of Technical Thermodynamics, simulation of flow processes, editing of C++ program code
- 2011 – 2015 **B.Sc. Energy and Environmental Technology**, TU Hamburg

Projects (Selection)

<p>2023 - 2024 Kommunale Wärmeplanung Stadt Neustadt in Holstein <u>Partner:</u> PlanEnergi <u>Client:</u> Stadtwerke Neustadt</p>	<p>2023 - 2024 Kommunale Wärme- und Kälteplanung <u>Norderstedt</u> <u>Partner:</u> PlanEnergi <u>Client:</u> Stadtwerke Norderstedt</p>
<p>2022 - 2025 <u>Forschungsprojekt OptInAquiFer:</u> Optimierte Integration thermischer Aquiferspeicher in Fernwärmesysteme</p>	