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Hydrogen is the smallest but most common atom in the universe. The hydrogen molecule consists of two hydrogen atoms. Hydrogen is a very useful molecule and can be used as energy storage and fuel. This technology is often regarded as a possible solution to climate change. The objective of the project was to present and discuss information about the subject. The information was to a big part found on different websites, in reports and in articles on the internet, but also by attending digital events and interviewing companies about hydrogen from an energy perspective. The question that was to be answered is: Can the development of hydrogen technologies contribute to different solutions to energy problems and which limitations exist?

The findings are that hydrogen usage has the potential to decrease carbon dioxide emission and, in that way, reduce climate change. My research showed that the technology exists for hydrogen to be used to fuel vehicles such as cars, buses and aeroplanes or gas turbines that generate electrical power. Hydrogen can also be used in industries as a replacement for fossil fuel, and several conversion projects have already started. My conclusion is that hydrogen technologies are developing, but to reach a full-scale conversion, further investments and political interventions are probably needed.