

Decarbonisation of emission gases by injection of sodium hydroxide

Global problem:

Carbon dioxide is one of the major pollutants in the atmosphere of our planet. Its emission into the air in various ways, such as burning fossil fuels, contributes the most to the greenhouse effect and global warming.

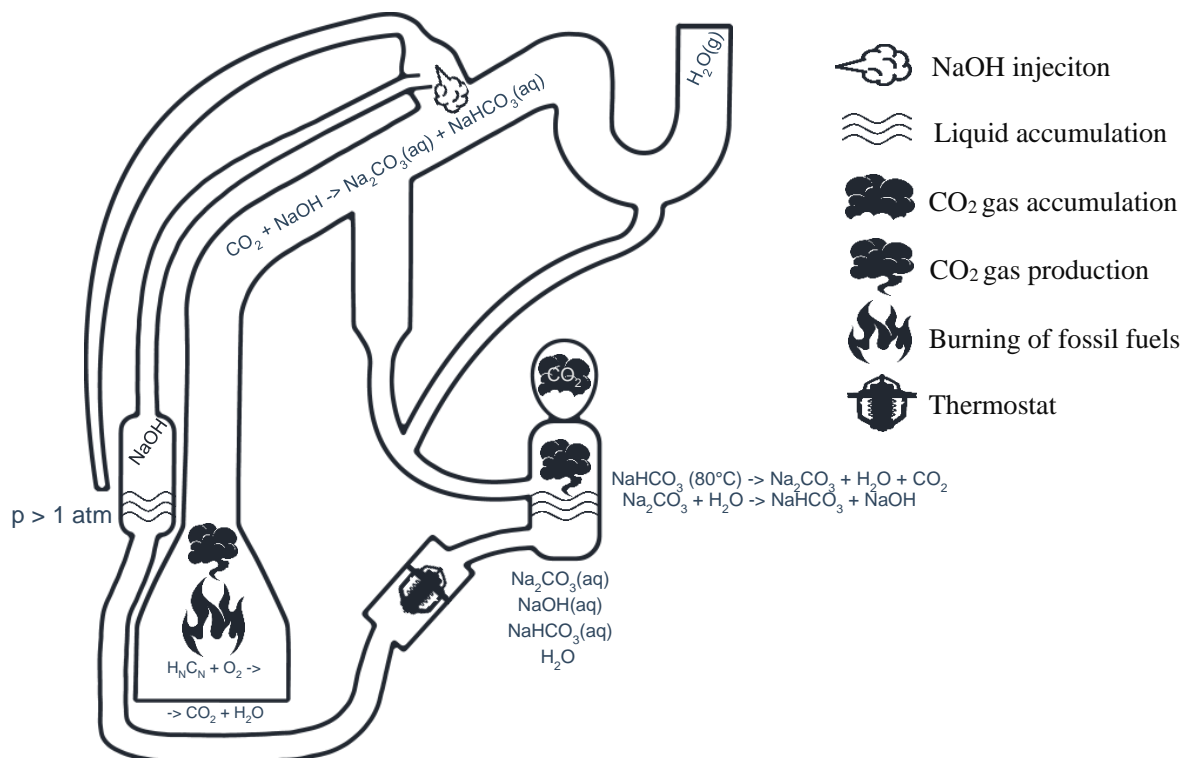
Decarbonisation chimney:

The initial purpose of the project was to find an effective way of capturing and subsequently processing carbon dioxide before its entry into the atmosphere, using injected sodium hydroxide solution. Not only did we try to introduce a new way of capturing carbon dioxide but to also create and test the functionality of a simple model which that accurately presents the properties and functions of our envisioned product.



Processes and usefulness:

The physical and chemical processes taking place during the decarbonisation cycle can be seen in the diagram:



The decarbonisation method principle can be used in various ways in our constantly developing world. From many small-scale carbon-producing companies to big thermal power plants, it could help with reducing carbon footprint during world's transition to green products and energy.

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