

## ENERGY CHANGE PAPER

### CARBON CAPTURE AND STORAGE

BRAM TRIP

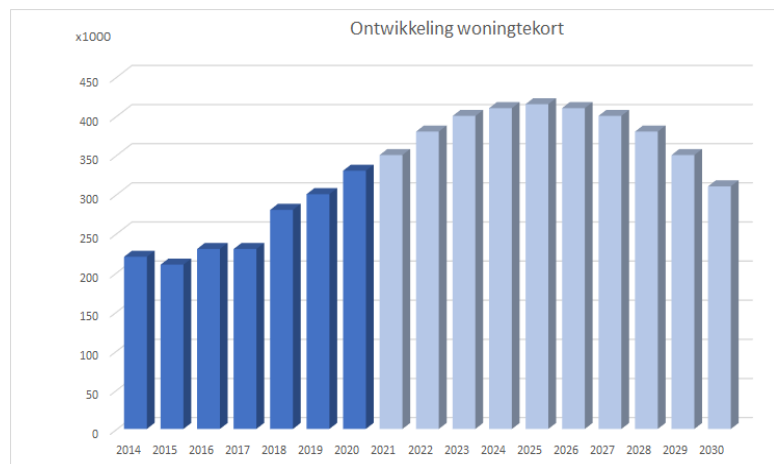
Currently civilization is trying to reduce the carbon dioxide emissions to create a more sustainable world for everyone. One of the big issues is that there is no solution to exclude all the fossil fuels right now and completely shift to renewables. So carbon capture and storage is a technique with a lot of potential for this transition period. It will reduce the pollution and the carbon can also be reused.



### CONCEPT AND POTENTIALS

As depicted in the image above, the concepts in a nutshell means that the CO<sub>2</sub> will be captured. The CO<sub>2</sub> atom will be split into C and O<sub>2</sub> molecules and the C molecule can be reused for manufacturing bricks. Bricks are very much needed according to the housing shortage. And regarding to the carbon capture storage it can make the process more circular.

### HOUSING SHORTAGE NETHERLANDS



### ACTUAL CONTRADICTIONS AND UNCERTAINTIES

According to a study called energy strategy reviews from the Imperial College of London it is a very nice technique with a lot of potential. The only problem is that the return on investment will take very long. On the Contrary to save the environment and contribute to a better life for later generations it is almost a must. To find out what the potentials are in specific situations on different locations in different circumstances, it is very important to continue the research of this technique. It is not very clear what the return on investment is right now. Next to that it is not clear when we will be totally independent from fossil fuels. Because of this it is very important to extend our deadline of pollution as far as possible and that can be achieved by continue the study to the feasibility and potentials of carbon capture and storage. We want to inspire and encourage everyone to help and contribute to a better world! (London, 2018)