

# Biohydrogen from Microalgae

## Why?

To explore sustainable sources of renewable energy.

## What?

Microalgae have the ability to produce hydrogen through biological processes called biophotolysis.

## How?

Microalgae absorb sunlight and use it to convert water ( $H_2O$ ) and carbon dioxide ( $CO_2$ ) into organic compounds and oxygen ( $O_2$ ). Some species of microalgae conduct biophotolysis with the help enzymes called hydrogenases. This method helps reduce greenhouse gases by using carbon dioxide to make hydrogen.



Portable hydrogen meter