

BIOHYDROGEN

This is the entrance to several Dutch and European hydrogen projects.
The focus is on biological production of hydrogen from biomass.

Info

This platform offers a dedicated environment for sharing information on biological production of hydrogen from biomass and communication on hydrogen topics. It provides access to various (inter)national Biohydrogen projects and the activities of *The Netherlands Biohydrogen Network*. It also addresses related developments and hydrogen applications.

News

- US National Hydrogen Roadmap unveiled by Secretary of Energy
- Steps toward a hydrogen society

Biohydrogen Projects

STAIRWAY TO HYDROGEN

The objective of this proposed Integrated Project for FP6 is the cost-effective production of hydrogen from biomass. The focus is on benchmarking of technologies for (Photo)fermentation, anaerobic digestion and thermochemical conversion of biomass to hydrogen.

BIOHYDROGEN

The main objective of this EU project is the production of hydrogen from Sweet Sorghum and paper sludge employing (hyper)thermophilic and photoheterotrophic microorganisms. The focus is on optimizing microbial physiology and genetics.

HYDROGEN FROM BIOMASS

This Dutch project aims at the production of hydrogen from *Miscanthus* hydrolysates and potato steam peels. The focus is on optimizing processtechnology for maximum productivity.

WATERSTOF WAGENINGEN

The Netherlands Biohydrogen Network

NETHERLANDS BIOHYDROGEN NETWORK

Researchers involved in basic and applied aspects of biological H₂ and CH₄ production participate in the Netherlands Biohydrogen Network. The objectives are to promote (inter)national exchange and R&D co-operation, and to provide expertise for government & the market sector.

WAGENINGEN UR

- Laboratory of Microbiology
- Environmental Technology
- Food & Bioprocess Engineering



PORTAL hydrogen.nl

is the address of the Dutch portal site for Biological Production of H₂ from Biomass, constructed by The Netherlands Biohydrogen Network. This site will become a dedicated environment for communication about hydrogen topics.

At present the site enables internal and external communication on 4 (inter)national projects of departments of ATO BV, Wageningen UR, ECN, etc. The latest Project is 'Stairway To Hydrogen', an Integrated Project proposal to the FP6 of the EU.

AIM Before microbial hydrogen production can be implemented, several hurdles need to be taken. Some are associated with biotechnology, others are shared with other hydrogen technologies. Here you may find information from our projects but, in the future, also from other developments on:

- biomass production
- biomass pretreatment
- microbial conversion
- gas recovery
- gas purification
- safety
- emerging hydrogen applications

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Hydrogen Knowledge / STAIRWAY TO HYDROGEN

STAIRWAY TO HYDROGEN

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This page gives you direct access to the folders; the left-hand tree will synchronise for easy navigation.

Information for everyone:

- [Eol Stairway to Hydrogen](#)
- [Annex form for the IP](#)
- [Access to Stairway to Hydrogen](#)
- [Related Eol's](#)
- [How to use this site](#)
- [How to add your documents and content](#)
- [Helpdesk](#) and [Manuals / Handleidingen](#)

Information for team members:

- [Stairway to Hydrogen Intranet](#)
- [Project Management](#)
- [Calendar and mailings](#)
- [Information from EU or EGL](#)
- [Addresses of participants](#)
- [Proposal Submission Forms](#)

Sub-projects

- SP1: Biomass
- SP2: Dark Fermentation
- SP3: Photo Fermentation
- SP4: CH₄ Fermentation
- SP5: Non-Fermentables
- SP6: Gas Upgrading
- SP7: System Integration
- SP8: Socio-Economics

STEP ON THE HYDROGEN

This interactive and knowledge sharing site is powered by Topshare. Topshare software supports communications and knowledge management browser based via the internet or your intranet.

The Biohydrogen site is a theme environment and you are invited to manage your hydrogen projects on www.biohydrogen.nl.

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