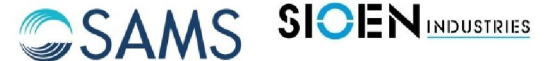


# MacroFuels

## WP7 – Dissemination and communication

3<sup>rd</sup> Project Meeting – 4<sup>th</sup> July 2017, SIOEN



# Progress Summary



- Objectives
- Activities performed during the first project phase
- Results achieved
- Lessons learnt so far



# Objectives

- Raise awareness and keep the target community informed
- Implement the general dissemination and press strategy
- Prepare stakeholder involvement and public engagement

# Tasks performed



- Dissemination and Exploitation Plan (DEP) developed – accessible via the website Members Area
- Project website and social media channels have been set up, project news published via the channels - project's progress, events and conferences, publications
- Press releases sent out and MacroFuels newsletter established
- Audiovisual media – EXPO MacroFuels movie (exclusive to the EXPO main pavilion) and short videos by SAMS and SIOEN shared via website and social media
- Conferences were visited and **publications** were managed



# Open Access Publications

- Rule in H2020: Each beneficiary must ensure open access (free of charge online access for any user) to all **peer-reviewed** scientific publications relating to its results (costs are eligible direct costs).
- Deposit the **research data** needed to validate the results presented in the scientific publications
- Beneficiaries must deposit a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication in a **repository** for scientific publications.

# Open Access Publications

- Possible repositories:
  - Institutional repositories
  - Thematic repositories
  - **OpenAire** (Zenodo: [www.zenodo.org](http://www.zenodo.org))

Networking sites, such as ResearchGate do not qualify as digital repositories according to EC guidelines!

# Open Access Publications

- The Open Access rule only refers to peer-reviewed scientific publications
- Book chapters usually undergo a reviewing process different from peer-reviewed scientific articles
  - Open Access rule does not comply
- However, if possible, also book chapters should be made accessible free of charge, e.g. via self-archiving

*Please ask the publisher what options exist*

# Project Publications



Bioresource Technology 238 (2017) 16–21



Contents lists available at [ScienceDirect](#)

Bioresource Technology

journal homepage: [www.elsevier.com/locate/biortech](http://www.elsevier.com/locate/biortech)



## Butanol fermentation of the brown seaweed *Laminaria digitata* by *Clostridium beijerinckii* DSM-6422



Xiaoru Hou <sup>a,\*</sup>, Nikolaj From <sup>a,b,1</sup>, Irini Angelidaki <sup>b</sup>, Wouter J.J. Huijgen <sup>c</sup>, Anne-Belinda Bjerre <sup>a</sup>

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<sup>c</sup>Biomass & Energy Efficiency, Energy Research Centre of the Netherlands (ECN), Westerduinweg 3, 1755 LE Petten, The Netherlands

### H I G H L I G H T S

- High butanol yield of 0.42 g/g achieved by fermentation of *L. digitata* hydrolysate.
- Final butanol concentration of 7.16 g/L achieved by batch fermentation.
- High molar ratio of butanol to acetone-butanol-ethanol (0.85) achieved.
- Consumption of lactic acid, mannuronic acid and guluronic acid observed.



# Project Publications



April 11, 2017

Journal article Open Access

Edit

## Butanol fermentation of the brown seaweed *Laminaria digitata* by *Clostridium beijerinckii* DSM-6422

Hou, Xiaoru; From, Nikolaj; Angelidaki, Irini; Huijgen, Wouter J.J.; Bjerre, Anne-Belinda

Seaweed represents an abundant, renewable, and fast-growing biomass resource for 3rd generation biofuel production. This study reports an efficient butanol fermentation process carried out by *Clostridium beijerinckii* DSM-6422 using enzymatic hydrolysate of the sugar-rich brown seaweed *Laminaria digitata* harvested from the coast of the Danish North Sea as substrate. The highest butanol yield (0.42 g/g consumed-substrates) compared to literature was achieved, with a significantly higher butanol: acetone-butanol-ethanol (ABE) molar ratio (0.85) than typical (0.6). This demonstrates the possibility of using the seaweed *L. digitata* as a potential biomass for butanol production. For the first time, consumption of alginate components was observed by *C. beijerinckii* DSM-6422. The efficient utilization of sugars and lactic acid further highlighted the potential of using this strain for future development of large-scale cost-effective butanol production based on (ensiled) seaweed.



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7 readers on Mendeley

See more details

Indexed in

OpenAIRE

Publication date:

April 11, 2017

DOI:

DOI 10.1016/j.biortech.2017.04.035

Keyword(s):

Butanol production Clostridium beijerinckii

Laminaria digitata Enzymatic hydrolysate

Wide-spectrum-substrate utilization European Union

Horizon 2020 MacroFuels

Published in:

Bioresource Technology: pp. 16-21.



# Conference Participation



27-28 September 2016  
Portugal  
**Seagrass**  
5<sup>th</sup> international seaweed conference



# Outlook next phase



**Outlook for the next 6 months...**

**...what activities are  
planned?**



# Outlook: Tasks Month 13-18



- Further assess the DEP and, if necessary, adapt it to the realities of the project.
- Maintain and update the project website and social media groups and disseminate project news and results via all formats.
- Set up and send out the second issue of the MacroFuels project newsletter to subscribers.
- Manage content for 'Open Access' publications and supervise IPR activities and compliance with grant agreement.
- Screen future relevant conferences and fair trades and discuss participation with consortium partners.
- Intensify inter-project knowledge exchange



# Outlook: Tasks Month 7-12

- Assess the potential of project results for knowledge and data transfer towards relevant EU stakeholder groups
- Initial preparatory work for setting up a MacroFuels Citizen Panel, incl.
  - (a) initiating contacts with authorities in seaweed cultivation areas to get in touch with local communities
  - (b) starting an information campaign towards local communities
  - (c) developing a first citizen survey to be performed between M12 and M18.

# Issues to be discussed

- How can we improve the internal and intra-WP communication?
  - Internal monthly newsletter or memo?
  - Project blog on the website Member Area?

# Issues to be discussed

- Policy input
  - Knowledge **in** and knowledge out
  - Sources of knowledge: Publications, individuals, conferences and events, projects
  - What can we build from within the consortium?

# Issues to be discussed today



## Data and knowledge sharing

- What type of data are we expecting?
- Are data formats compatible?
- How will we make (not IP-protected) data openly accessible (database?), esp. side-knowledge to adopters?





# Issues to be discussed



## Public involvement

- What can we build from (existing local contacts and formats)?
- Local partner responsibilities, esp. at cultivation and harvesting sites?



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