

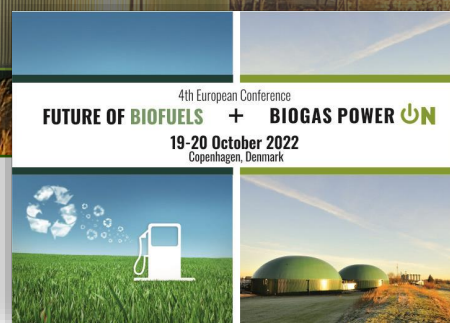
4<sup>th</sup> European Conference

# Biogas Power N

Copenhagen Denmark, **19-20 October 2022**

## Europe's oil/gas independence & green transition

- Global and EU market overview
- European and national policies & regulations
- Biogas economics
- Sustainability criteria in biogas production
- Biogas plant operator's experience
- Latest technological advancements
- Biogas production for reducing carbon emissions
- Green gases for heavy duty transport
- Decarbonization in global transport



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**About Event:** Europe as a whole and particular industry sectors face the need of decarbonisation and oils/gas independence. This can be done by meeting sustainability goals set by national policies and new European regulations.

Gases like biomethane, bio-LNG, bio-CNG and syngas have increased potential to become the main drivers for greener future. Thus, this year we would like to emphasize their role in decarbonization and oil/gas independence of transport and energy sectors. The event is set to bring industry stakeholders, unique content, workshop style discussions and networking. It gives an opportunity to showcase your products and services in the networking area and hold meetings with leaders from the industry.

**Who should attend:**

**4th European Conference Biogas PowerON 2022** will bring together top-level experts from fuel suppliers, end-users from entire value chain (trading & distribution companies, producers of feedstock, oil& gas companies, EPC contractors and OEM'S) aircraft and ships manufacturers, port authorities, shipping companies, airports, airlines, port operations companies, ground service and transportation providers, renewable fuels consultancies, research experts, government representatives, business analytics.

**Why attend:** During this 2-day event rich in presentations from industry end-users and running projects' case studies you will gain a comprehensive overview of the biogas industry. You can hear experts focusing on new regulations, changing market situation and more. Get an opportunity to network and exchange views with industry leaders.

**Scandic Spectrum  
Kalvebog Brygge 10  
1560 Copenhagen V  
Denmark**



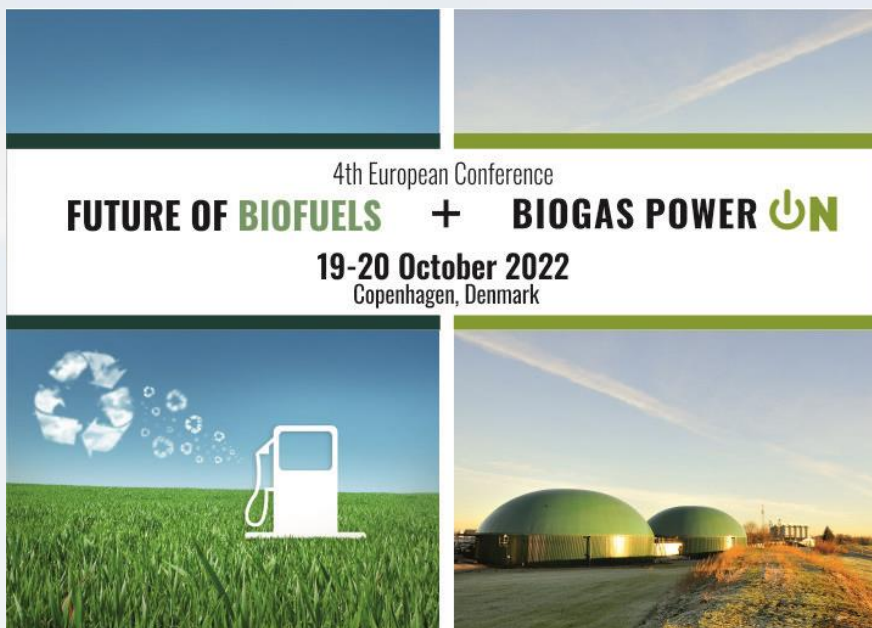
Lying on the islands of Zealand and Amager, Copenhagen, the capital of Denmark and one of the world's most environmentally friendly cities, is certainly a wonderful destination for any kind of traveler.

Scandic Spectrum places you within walking distance of the entire city centre and the waterfront is at hotel's doorstep. Tivoli and The Glyptotek are just some of Scandic's great neighbours and you are less than a kilometer from the Central Station for longer trips. Take a walk or bike ride along the harbour, remember to cross the bridges to Holmen or Christianshavn. Would you rather see the maritime capital from the waterside? Rent a kayak, hop on the harbour bus, or slide through the canals in an electric boat. No license nor experience needed.

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This year Biogas PowerON is co-located with Future of Biofuels. During 2 days of the conference you will have a chance to meet and discuss with biogas and biofuels industry leaders like St1, Maersk, SEKAB, Nature Energy, Engie, Total Energies and others

The networking and exhibition areas will be shared. Providing there will be spaces in biofuels/biogas stream on 20th October, you can choose the preferred conference.



**EXHIBITION** If you will sponsor our summit, you will have a Chance to showcase your products and services in the networking area and will be able to hold meeting with leaders from the industry. The commercial aspect of the event will create a perfect intimate environment for doing business.



**AUDIENCE** The delegates coming to the summit are carefully targeted attendees from major stakeholders from the industry. There are, in most cases, actual decision makers when it comes to the companies they represent. This perfect set up will save you both time and money.



**SPONSOR** Through the 2 days of the event you will get the best possible conditions to market and sell your product or expertise. You will be introduced to the participants at the start of the event and will receive the list of attendees to better prepare for the summit and carefully choose the exact companies you want to meet. We will help you with this facilitating and organizing meetings.

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**Søren Robenhagen**  
Commercial  
Director – Industrial  
Water  
Aquaporin



**Thorkil Dahlgreen**  
CEO  
Biogas Clean



**Jay Morrod**  
Senior Trading  
Analyst  
STX Commodities



**Rodrigo Rivera**  
Tinoco  
Technology  
Manager -  
Sustainable Gas  
Solutions  
Pentair



**Niels Grave**  
Sales Manager  
Aircro Process  
Technology



**Benoit Boulinguez**  
Product &  
Marketing Director  
Hitachi Zosen Inova



**Anna Venturini**  
Policy Officer  
EBA



**Marianne Langvik**  
Manager Commercial  
& Sustainability  
Biokraft



**Kasper Gadbert**  
Market Analyst  
Biogas Danmark



**Ole Hvelplund**  
CEO  
Nature Energy



**Manon Dumontier**  
Partnership &  
Ventures  
TotalEnergies



**Charlotte Richard**  
Anaerobic Digestion  
Research Engineer  
Engie Lab Crigen



**John Cosmo Dwelle**  
Head of Business  
Development,  
Sustainability &  
Verification  
Landwärme



**Lotte Holmberg  
Rasmussen**  
R&D Project  
Manager  
Centrica Energy  
Trading



**Marta Kamola-  
Martines**  
Head of Biogas,  
Corporate Strategy  
Engie



**Ilona Järveläinen**  
Biogas Business  
Development  
Manager  
St1



**Christian Eichhorst**  
Managing Director  
Weber Entec



**Zino Soyka**  
CFO  
LXP Group



**Rune L. Sørensen**  
CEO  
Danis Bio  
Commodities



**Senior  
Representative**  
Naerenergi



**Søren T. Møller**  
Director  
GasDetect

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**Marko Snellman**  
Commercial  
Manager -  
Biofuels  
UPM



**Maria Strandesen**  
Head of Future  
Fuels  
A.P. Moller-  
Maersk



**Anita Feddersen**  
Sales Director  
AirFrance KLM



**Bharadwaj  
Kummamuru**  
Executive Director  
WBA



**Oskar Meijerink**  
Head of Future  
Fuels  
SkyNRG



**Enzo De Biase**  
Licensing Expert  
Green Chemistry  
ENI Versalis



**Patricia Luis-Manso**  
Head of  
Agriculture &  
Biofuels Analytics  
S&P Global  
Commodity  
Insights



**Mathilda Johansson**  
Development  
Engineer  
SEKAB



**Dennis Chafiâ**  
Manager Business  
Development  
GIDARA Energy



**Paul O'Connor**  
Founder,  
Director  
Yerrawa



**Niels de Regt**  
Business  
Development  
Manager  
Nordsol



**Asad Navid**  
Senior Business  
Development  
Manager  
Topsøe



**Leif Gustavsson**  
Professor  
Linnaeus  
University



**Harald Mahler**  
Business  
Development  
Manager  
Siemens



**Senior  
Representative  
Bunker One**



**Massoud Javaheri**  
Commercial  
Development  
Manager  
Renewable Aviation  
Fuel  
NESTE



**Elena Marchante**  
Project Engineer  
AIJU



**Knud Balslev**  
Director Strategic  
Alliances  
Mercurius  
Biorefining



**Frankie Ugboma**  
Head of Investment  
and Supply  
Sustainable Fuels  
SHV Energy



**Cyril Dufau - Sansot**  
CEO  
Hy2gen



**Senior  
Representative  
Implement  
Consulting Group**

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# Europe's oil/gas independence & green transition

- 08.00 **REGISTRATION & COFFEE**
- 08.45 **CHAIRMAN'S WELCOMING MESSAGE**
- 09.00 **Biofuels in a future net zero energy system**
- Net zero scenarios and role of bioenergy
  - Latest data on biofuels production, consumption and trade
  - Policy and market developments globally
- Speaker: Bharadwaj Kummamuru, WBA
- 09.25 **Denmark as market leaders for biogas**
- Market leader in the share of biogas in the gas grid
  - Market leader in the anaerobic digestion of livestock manure and residues from agriculture, households and industry - circular economy
  - Biogas as main supplier of CO2 to PtX
- Speaker: Kasper Gadbert, Biogas Danmark
- 09.50 **Biomethane as an alternative transport fuel**
- Speaker: Jay Morrod, STX Commodities
- 10.10 **Bio-feedstock battle in renewable fuel markets**
- Speaker: Patricia Luis-Manso, S&P Global
- 10.30 **MORNING REFRESHMENTS – NETWORKING BREAK**
- 11.00 **RePowerEU Plan**
- Biogas and biomethane data
  - RePowerEU and its impact on the Fit for 55 package
  - Policy developments
- Speaker: Anna Venturini, EBA
- 11.30 **UPM's approach to advanced decarbonization**
- sustainable forestry and wood residue-based feedstocks
  - advanced biofuels in reducing emissions and mitigating climate change
  - climate positive fuels for hard-to-decarbonize sectors
- Speaker: Marko Snellman, UPM
- 12.00 **A market for biomethane in Europe**
- How to REPower EU for a resilient and independent energy system: including Biomethane.
  - Proposal to optimize feedstock and technology for a sustainable scale up of production.
  - Definition of a legal framework for 35 bcm of Biomethane while avoiding mistakes of the past.

Speaker: John Cosmo Dwelle, Landwärme

- 12.30 **NETWORKING LUNCH**
- 13.30 **Solutions for biogas business in European energy and CO2 taxonomy**
- Challenges and opportunities for the biogas sector in the current energy sector
  - Further integration of solutions to reduce the CO2 balance of the plant
  - Solutions to address the challenges and harvest on the opportunities
- Speaker: Benoit Boulinguez, Hitachi Zosen Inova
- 14.00 **Biogas as a way to sustainable energy and self-dependency, in a circular production that gives value to waste.**
- Speaker: Ole Hvelplund, Nature Energy
- 14.30 **Role and potential of biomethane as sustainable transportation fuel in the Nordics**
- Speaker: Ilona Järveläinen, St1
- 15.00 **Creating a healthy business case with decentralized bio-LNG production**
- Learn how the bio-LNG price is composed of several elements, such as the methane molecules, the green value (which is dependent on feedstock, CI index, etc), and more.
  - Learn about static and dynamic costs in bio-LNG production, such as the biogas price, equipment depreciation, the energy price, and other operational expenses.
  - In the presentation we will explore each of these individual components and explain the process to get to the best bio-LNG business case.
- Speaker: Niels de Regt, Nordso
- 15.30 **AFTERNOON REFRESHMENTS - NETWORKING BREAK**
- 16.00 **Topic to be confirmed**
- Speaker: Manon Dumontier, TotalEnergies
- 16.30 **Topic to be confirmed**
- Speaker: Marta Kamola-Martines, Engie
- 17.00 **PANEL DISCUSSION: Drivers of shipping decarbonisation / Time for bioLNG and green hydrogen / + Q&A**
- 17.30 **CHAIRMAN'S CLOSING REMARKS AND DRINK RECEPTION**

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### 08.50 CHAIRMAN'S WELCOMING MESSAGE

09.00 Sustainability challenges in biogas production – is the feedstock truly sustainable?

Speaker: Marianne Langvik, Biokraft

09.30 **Metha-HYn Project, development of an integrated commercial solution for *in situ* biological Methanation with biological Hydrogen production**

Speaker: Charlotte Richard, Engie Lab Crigen

10.00 Topic to be confirmed

Speaker: Lotte Holmberg Rasmussen, Centrica Energy Trading

### 10.30 MORNING REFRESHMENTS – NETWORKING BREAK

11.00 **Innovations in our Biogas upgrading units: CO2 capture and removal of H2S**

- Our Biogas upgrading and CO2 liquefaction solutions
- Innovative way of removing H2S and avoid massive transport of activated carbon
- Expertise on solvents is bringing our CO2 knowledge on CCS to Biogas units

Speaker: Rodrigo Rivera Tinoco, Pentair

11.25 **Biological desulfurization and methanation of biogas**

- Desulphurization of biogas on both CHP and RNG projects.
- 100% biological; no chemicals
- Lowest operating costs; highest availability

Speaker: Thorkil Dahlgreen, Biogasclean

11.50 **Efficient dewatering of digestate to reduce volume to be trucked or further processed and at the same time recover valuable nutrients while producing clean water for recycling or discharge.**

- Reduce digestate volume with up to 70% to reduce trucking costs;
- Recycle or dispose clean water from digestate meeting local regulation;
- Recover valuable nutrients from digestate for liquid/solid fertilizer production.

Speaker: Søren Robenhagen, Aquaporin

12.10 **CO2 utilisation, challenges and solutions**

- Input for your business case
- Financial considerations

Speaker: Niels Grave, Airco Process Technology

12.30 **NETWORKING LUNCH**

13.30 **Enabling 2G biomass for the chemical and energy market of the future**

- To achieve the emission reduction goals laid out in the Renewable Energy Directive 21 (RED2), at least 10% of fuel used in the EU must come from biofuel in the immediate future.
- With current technology, we can not achieve the required reduction in CO2 emissions.
- The LXP Technology makes Lignocellulosic 2G biomass that currently goes to waste viable for second-generation (2G) bioconversion in biogas and bioethanol plants.

Speaker: Zino Soyka, LXP Group

14.00 **CH4 up – CO2 down**

Speaker: Christian Eichhorst, WeberEntec

14.30 Topic to be confirmed

Speaker: Senior Representative, Naerenergi

15.00 Topic to be confirmed

Sepeaker: Rune L. Sørensen, Danish Bio Commodities

### 15:30 AFTERNOON REFRESHMENTS – NETWORKING BREAK

16.00 Topic to be confirmed

Speaker: Søren T. Møller, GasDetect

16.30 **Encouraging integration of biogas and transport sectors**

- Development of fueling infrastructure and popularizing green gases
- How can biogas solutions make transport fossil free?
- Future of green gases in marine transport. How to replace diesel with renewables?

17.00 **CHAIRMAN'S CLOSING REMARKS**

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# 20th October 2022 –BIOFUELS STREAM

## Europe's oil/gas independence & green transition

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| <p>08.50 <b>CHAIRMAN'S WELCOMING MESSAGE</b></p> <p>09:00 Topic to be confirmed<br/>Speaker: <u>Dennis Chafiâ, GIDARA Energy</u></p> <p>09.25 <b>Process analytics optimizes advanced biofuel production processes</b><br/>Speaker: <u>Harald Mahler, Siemens</u></p> <p>09:50 <b>Advanced biofuel – challenges and opportunities</b></p> <ul style="list-style-type: none"> <li>• Regulation needs to boost innovation and investment in new technologies</li> <li>• Advanced feedstocks are promising in decarbonizing maritime and aviation sectors</li> <li>• Deployment of solid to liquid and solid to gas technologies are key</li> </ul> <p>Speaker: <u>Asad Navid, Topsoe</u></p> <p>10.10 <b>Carbon negative diesel/marine/jet fuels and chemicals from conversion of residual biomass feedstocks.</b><br/>Speaker: <u>Knud Balslev, Mercurius Biorefining</u></p> <p>10:30 <b>MORNING REFRESHMENTS - NETWORKING BREAK</b></p> <p>11.00 <b>Exploiting the chemical diversity of lignocellulose</b></p> <ul style="list-style-type: none"> <li>• Pine and spruce as feedstock for biofuels and biochemicals</li> <li>• Optimizing a biorefinery process towards different end products</li> <li>• Latest advancements in lignocellulose-based waste valorization</li> </ul> <p>Speaker: <u>Mathilda Johansson, SEKAB</u></p> <p>11.25 <b>The potential for SAF from biobased resources</b></p> <ul style="list-style-type: none"> <li>• The market for SAF is developing rapidly, specifically in the EU and US</li> <li>• Multiple pathways are needed to fulfill this demand, including bio-based SAF</li> <li>• There are interesting synergies between the PtL, hydrogen and bio-based industries</li> </ul> <p>Speaker: <u>Oskar Meijerink, SkyNRG</u></p> <p>11.50 Topic to be confirmed<br/>Speaker: <u>Anita W. Feddersen, AirFrance KLM</u></p> <p>12.10 <b>How to decarbonise aviation – SAF – a solution for today and tomorrow?</b><br/>Speaker: <u>Massoud Javaheri, Neste</u></p> | <p>12.30 <b>NETWORKING LUNCH</b></p> <p>13.30 <b>Proesa®: Versalis technology to enhance 2G Ethanol production.</b><br/>Speaker: <u>Enzo De Biase, Versalis</u></p> <p>13.55 <b>Future of bio fuels &amp; Bio-products</b></p> <ul style="list-style-type: none"> <li>• Business case of bio-fuels depends on co-producing other products &amp; other opportunities.</li> <li>• There is an interesting potential to add value by CO2 reduction and the production of high value bio-based materials.</li> <li>• The Technology to achieve the foregoing has progressed and is now ready for demonstration &amp; deployment.</li> </ul> <p>Speaker: <u>Paul O'Connor, Yerrawa</u></p> <p>14.20 <b>Maersk's decarbonisation journey – status and main obstacles</b></p> <ul style="list-style-type: none"> <li>• Maersk's current Future Fuel Mix and Fuel Policy (which feedstocks do we accept, etc.)</li> <li>• How much to bet on biofuels vs. e-fuels?</li> <li>• Can we do it fast enough?</li> </ul> <p>Speaker: <u>Maria Strandesen, Maersk</u></p> <p>14.45 Topic to be confirmed<br/>Speaker: <u>Senior Representative, Bunker One</u></p> <p>15.10 Topic to be confirmed<br/>Speaker: <u>Frankie Ugboma, SHV Energy</u></p> <p>15.30 <b>AFTERNOON REFRESHMENTS – NETWORKING BREAK</b></p> <p>16.00 <b>First of its kind – biomass to biofuels with hydrogen</b></p> <ul style="list-style-type: none"> <li>• mutual generation of sustainable for Biodiesel, Kerosene, Naphtha and Methanol</li> <li>• Scale effect benefit</li> <li>• Market expectations</li> <li>• Project financing</li> </ul> <p>Speaker: <u>Cyril Dufau-Sansot, Hy2gen</u></p> <p>16.20 <b>LIFE Superbiodiesel project : Production of advanced biodiesel from animal wastes using supercritical technologies.</b><br/>Speaker: <u>Elena Marchante, AIJU</u></p> <p>16.40 <b>Lifecycle climate impact and resource use of cars and trucks powered by biofuels, electricity or fossil fuels</b><br/>Speaker: <u>Leif Gustavsson, Linnaeus University</u></p> <p>17.00 <b>CHAIRMAN'S CLOSING REMARKS</b></p> |
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## Registration



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Industry pass (2 days)	€1495 (inc.VAT)
Academic pass * (2 days)	€995 (inc. VAT)

The conference pass includes participation in all sessions, conference luncheon/reception, coffee breaks, access to exhibits area and one set of conference documentation. Travel costs and accommodation are NOT included.

\*Applies to University employees, students, governments, non-profit organisation, non-government organizations. Organisation profile will be verified by the organiser, delegates can be asked to provide adequate documents e.g. student card

Terms and conditions Delegates are responsible for their hotel, travel and visa arrangements.

### Disclaimer

The organizers will not accept liability for non-approval of visas, individual transport delays and transport disruption. In such circumstances. Terms and Conditions apply.

Where matters beyond the reasonable control of the organizers impair or prevent the organizers from being able to perform any activities relating to this event, each delegate releases the organizers from any liability, relating to such events.

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