

Gasification 2019

13-14 March

Brussels, Belgium

Key Topics

- Drivers for the Gasification Industry - EU Regulations, Directives & Energy Demand: Future Forecast for Gasification Technology
- Opportunities for Growth - Regional Analysis & Key Developments
- Status of Demonstration Projects – Latest Project Updates
- Key Products Derived from Gasification Process
- Gasification-Based Cogeneration

- Gasification Based Bio-chemicals & Bio-products
- Research & Development in the Labs & Research Institutes
- Gasification for Heat & Power
- Waste Gasification: Status Updates & Recent Developments
- Coal Gasification: 'Cleaning the Coal' Industry

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For Commercial & Sponsorship Enquiries Please Contact:

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Gasification offers advantages over competing technologies in the processing of a variety of feedstocks into a diverse range of desirable products with more value and potential applications than the raw material itself. This product flexibility as well as the versatility and efficiency of gasification, make it an attractive technology now and for the future.

Many countries and enterprises are focusing extensive programs on performing the research, development, and demonstration necessary to maximize the potential for gasification in the future.

ACI's 8th Gasification conference will showcase the latest developments in the sector and provide key insights from senior executives in the industry to discuss the latest commercial and technical developments, challenges and research breakthroughs throughout the entire gasification market.

Who Should Attend:

Leading power generation companies, oil refining and petrochemical industry including: managers, directors & engineers of gasification, biomass or clean coal technology, power generation, processing technologies, R&D and new technologies, renewable strategy, sustainable technologies, environment and CO2 managers, CTOs, COOs as well as business development executives from technical service providers, consultants and regulators.

Speaking Opportunities:

If you would like to be considered as a speaker for the event with a 30-45 minute presentation, please submit an abstract to

Daniel Lavery:

Tel: +44 (0)203 141 0612 or Email: DLavery@acieu.net

Registration is Simple:

If you would like to register for this event or wish to find out more information, you can contact

Mohammad Ahsan:

Tel: +44 (0)203 141 0606 or Email: Mahsan@acieu.net

Sponsorship Opportunities:

A wide variety of commercial and sponsorship opportunities available - for more information please contact:

Tim RowleyEvans:

Tel: +44 (0)203 141 0614 or
Email: Trowleyevans@acieu.net

Site Visit Details: The BioTfuel project



The BioTfuel project launched by Axens, Avril, CEA, IFPEN, Total and ThyssenKrupp Industrial Solutions is designed to convert lignocellulosic biomass (crop and forest residues, dedicated energy crops) into biofuels via torrefaction, gasification and Fischer Tropsch. The consortium's goal is to develop an end-to-end set of processes for producing high quality drop-in fuels.

The BioTfuel project is focused on developing an innovative and integrated process for converting biomass into naphtha, jet fuel and diesel. Torrefaction and gasification make it possible (...) and energy crops. The process can also convert fossil feedstock mixed with biomass (economy of scale, season variations in resource availability).

The resulting drop-in fuels have premium quality in term of technical and environmental performances (renewables, 0 sulfur, 0 olefins, 0 aromatics).

The set of processes developed by BioTfuel will transposable on an industrial scale at the end of the project.

There is no extra charge to join the site visit, although places are limited and allocated on a first come first served basis.

Please confirm your attendance when booking for the conference to avoid disappointment.

Schedule of Site Visit:

11:00 – Registration for site visit at conference hotel

12:00 – Depart conference hotel

14:15 – Welcome address & presentation at the BioTfuel facility

15:00 - Guided tour of the BioTfuel facility

16:00 – Closing remarks & refreshments

DAY 1

Wednesday 13th March 2019

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**



Paul Winstanley
Project Manager – CCS & Bioenergy
Energy Technologies Institute - ETI

SESSION ONE

Drivers for the Gasification Industry - EU Regulations, Directives & Energy Demand: Future Forecast for Gasification Technology

09:10 **Drivers for the Gasification Industry – EU Regulations, Directives & Energy Demand**

- Introduction into the European Biogas Association
- Production routes & advantages of Renewable Gas
- Overview of biomethane in Europe
- European biomethane market with ErGar
- Biomethane subsidy schemes
- Targets and perspectives of biomethane in EU countries



Harm Grobrügge
Acting President
European Biogas Association - EBA

09:35 **The Role of Gasification to Produce Biomethane in a Net Zero Emissions EU**

- Navigant new study Gas for Climate consortium analyses the role of gasification to produce biomethane
- Significant cost reductions are possible
- Renewable gas can achieve significant energy system cost savings compared to an energy system with a minimal role for gas



Daan Peters
Associate Director
Navigant

10:00 **Panel Q&A**

SESSION TWO

Opportunities for Growth - Regional Analysis & Key Developments

10:15 **Status of the Gasification Industry - World View 2019**

- Overview of the GSTC Global Syngas Database
- Analysis of total syngas market
- Breakdown of technology type, feedstock, end use applications and growth by region



Chris Higman
Higman Consulting GmbH

10:40 **Gasification Developments in the Netherlands**

- Fluid bed gasification
- Super critical gasification
- Waste gasification
- Gasification for fuels and chemicals



Berend J. Vreugdenhil
Innovation Manager - Gasification
ECN part of TNO

11:05 **Panel Q&A**

11:30 **MORNING REFRESHMENTS**

SESSION THREE

Status of Demonstration Projects – Latest Project Updates

12:00 **GAYA project: A Demonstration Plant Supporting BioSNG Industrialization**

- General overview of the project goals
- Achievements so far
- Next steps



Marion Maheut
Process Engineer
Engie

12:25

BioFuel Project: Developing Second Generation Biofuels

- 6 partners to develop, demonstrate & commercialize a fully optimized & integrated B-XtL chain
- 2 demo plants including torrefaction, gasification, syngas conditioning & FT synthesis
- From R&D/demo plant to industrial scale, what are our next steps?



Michael Hecquet
R&D Program coordinator
TOTAL RC on behalf of Bionext



Guillaume Cheviron
R&D Manager
Axens on behalf of Bionext

12:50

Delivery & Establishment of a First UK Commercial Scale Plant to Deliver Ultra Clean Syngas

- Detailing the process through which ETI & Kew Technology have been through to get to this critical project start up stage
- Lessons learned in delivering the project, from both a funders point of view (ETI) and the Project Team's point of view
- Outline of establishment, with a focus on operability
- Look forward to deployment at scale across the UK and elsewhere



Paul Winstanley
Project Manager – CCS & Bioenergy
Energy Technologies Institute - ETI

13:15

Presentation title to be confirmed



Martijn Theelen
Business Developer Renewable Gas
Gasunie New Energy

13:40

Panel Q&A

14:00

LUNCH

15:00

ROUND TABLE DISCUSSION

Key Products Derived from Gasification Process

Discussion will focus on where gasification is going, towards E-production, Chemicals production or a mix, what is desired, what is economically viable, market opportunities and business models in place - Each table will focus on one of the following points:

- Bio-Chemicals via gasification



Robert Schouwenaar
Team Lead E&D
Gasification & Hydrogen
Manufacturing
Shell

- Successful routes to funding



Paul Winstanley
Project Manager – CCS & Bioenergy
Energy Technologies Institute -

- Implications on assessment and testing of fuels for dRTFCs



Dr Jeremy Tomkinson
Chief Executive
**National Non-Food
Crops Centre, NNFCC**

16:15

AFTERNOON REFRESHMENTS

SESSION FOUR

Gasification Based Bio-Chemicals & Bio-Products

16:45

Thermal Gasification Based Hybrid Systems – PtG & PtL

- Biomass gasification as a carbon source for PtG
 - Efficiency
 - Economics of PtG systems
 - PtG – Projects
- Advantages of PtL to PtG systems
 - PtL – Projects
- Barriers of commercialization of gasification based PtG and PtL systems



Jitka Hrbek
Senior Scientist
**Vienna University of Technology,
IEA Bioenergy Task 33**

11:55 CONFERENCE PRESENTATION

NOTAR® Gasifier: Biomass to Clean Gas

- Company Profile
 - Movie teaser
 - History
 - Competitive advantages
- NOTAR® TECHNOLOGY
 - Cutting-edge technology (producing clean syngas)
 - Ecosystem
 - Feedstocks
- MONT-GODINNE SITE
 - Process flow
 - High-end performances of the project
 - Facts and figures
- CONCLUSION
 - XYLOWATT's proposal



Jürgen Bohn
CEO
Xylowatt SA

12:25 LUNCH

SESSION SIX

Waste Gasification: Status Updates & Recent Developments

13:25 Bio & Waste Gasification: Technology Outlook

- Shell's world-wide gasification activities
- The role of biomass and waste gasification in Shell's scenarios
- Cost reduction through simplification
- Gasification Technology maturation



Robert Schouwenaar
Team Lead E&D
Gasification & Hydrogen
Manufacturing
Shell

13:55 Gasification of Sewage sludge for In-Situ Recovery of Phosphorus - Lab Scale Results & Pilot Scale Perspective

- Legal obligations for P-recovery from sewage sludge in Germany
- Thermal P-recovery during gasification
- Experimental results
- Gasification pilot plant at RWE's Niederaußem site



Tobias Ginsberg
R&D Engineer
RWE Power AG

14:25 Panel Q&A

14:45 CONFERENCE PRESENTATION

Recent European Research Activities in UCG Technology - The Best Use of Resource Approach in MEGAPlus Project

- Overview of RFCS funded MEGAPlus project and project main assumptions
- Problem statement - coupled coal bed methane (CBM) & underground coal gasification (UCG) processes
- Commencement of geological & hydrogeological research & assessment of the coal fields in Silesia, Poland, German Ruhr district & UK
- Large-scale experimental verification of the production of natural substitute gas (SNG) through combined CBM-UCG technologies



Krzysztof Kapusta
Head of Laboratory for
Experimental Installations
Clean Coal Technology Centre

15:15 CHAIRMAN'S CLOSING REMARKS



Paul Winstanley
Project Manager – CCS & Bioenergy
Energy Technologies Institute -
ETI

15:25 END OF CONFERENCE - DEPARTURE TO XYLOWATT SITE TOUR

INVITATION TO VISIT XYLOWATT

📍 Mont-Godinne

📅 March 14th 2019



DISCOVER THE NOTAR®

XYLOWATT's NOTAR® gasifier is the sole industrial reactor that produces clean syngas without any tar residue. Our **Biomass to Energy** plants produce **renewable energy** from natural and recycled woodchips. Combined with a trigeneration engine, our NOTAR® sites can supply you with electricity, heat and cold 24/7.

If renewable energy and biomass gasification are of any interest to you, come have a tour of the **FIRST BELGIAN BIOMASS GASIFICATION TRIGENERATION UNIT**, and discover our turnkey project implemented in Mont-Godinne.

Visit timetable:

16:05 – depart from conference site

17:15 – arrival onsite

18:30 – end of visit

19:30 – back at conference site

Visit of the plant will go as follow:


- Brief presentation of the project
- Guided tour of the infrastructure
- Extended explanation of the process
- Questions and answers

DID YOU KNOW? Our gasification units follow a **circular economy** model, they are sustained with local biomass, and the process is **zero waste** – all by-products are valorised onsite to produce additional heat. Our cutting-edge technology, allows to drastically **reduce CO₂ emissions** and contributes to meet the COP21 objectives.

Registration Is Simple

If you would like to register for this event or wish to find out more information, you can contact **Mohammad Ahsan** using any of the following methods:

 +44 (0)203 141 0606

 mahsan@acieu.net

 <http://www.acius.net>

 **Postal Address:**
ACI Europe, 10 Gough Square, London, EC4A 3DE

Registration Is Simple

Conference (Includes Access to Documentation Pack)
13th & 14th March 2019

£1,695.00

Documentation Pack Only

£470.00

Please Note.

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call +44 (0) 203 141 0606

Documentation Packet Available

We are selling the Gasification 2019 papers at just £440 (+£30 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago, ACI opened its European head office in London at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, chemicals, cosmetics & pharma and opening offices in Poznan (Poland) & Pune (India).

Media Partners



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Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.