



GASIFICATION 2023

Munich, Germany

22nd & 23rd of March, 2023



Promoting the Use of Gasification in Europe

Key Topics

- Gasification Market Overview
- Opportunities in Biomass Feedstocks
- Updates on current regulation and subsidies
- Promoting the Use of Gasification in SAF
- Scaling Up Gasification
- Overcoming Supply Chain Issues in Gasification Feedstocks
- Potential End-Markets for Gasification Production
- Waste Gasification- The Future of the Industry?
- New Technology in Gasification
- Plant-Owner's Perspective

Event Speakers

- Eva van Mastbergen, SkyNRG
- Tracy Loughran, ExxonMobil
- Amparo Arellano, Sure-System
- Christiaan van der Meijden, Biomass Energy Engineering
- Sebastien Gros, EDF
- Léon van Bossum, Nordsol
- Lizzie German, Dimeta
- Tobias Ginsberg, RWE
- Osama Alardani, Aramco
- Mohammad Saud Alshahrani, Aramco
- Henrik Thunman, Chalmers University

With thanks to our sponsors:

SCHMIDTSCHACK

ARVOS
GROUP

GIDARA
ENERGY

thyssenkrupp

ERG
Air Pollution
Control

Hitachi Zosen
INOVA

SunGas
RENEWABLES

Gasification 2023

ACI's 10th Annual Gasification Summit, taking place on the **22nd & 23rd of March, 2023**, will comprise two days of formal presentations, interactive roundtable discussions and excellent networking opportunities, providing an ideal setting to convene with your peers to discuss both current operational & future planned gasification plants, end product markets, potential barriers & support policies as well as project economics & finance.

Topics discussed will include:

- **Scaling Up Gasification**
- **Overcoming Supply Chain Issues in Gasification Feedstocks**



Who Will Attend?

- Gasification Plant Owners
- Energy Companies
- Oil & Gas Companies
- Fuel Traders
- Policy & Regulatory Professionals
- Consultants

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:

Tel: +44 (0) 203 141 0606

Email: mahsan@acieu.net

Conference Fees

Conference (Includes Documentation Packet)	£1,895 (Excl. VAT)
--	-----------------------

Documentation Packet Only	£495
---------------------------	------

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

Opportunities to Meet Your Target Au-

Showcase your technologies to the industry, with opportunities to demonstrate the capabilities of your latest products and services. Companies can gain direct access to our senior level audience and have an increased level of visibility and exposure through branding and networking at the conference. This will allow you to attract new business and forge lasting commercial relationships.

For information on available commercial opportunities, please contact:

Krisztina Maria Szabo

Media Partners:



ener|gate
messenger english edition

Petrol  **PLAZA**



watargas.it



bioenergy
Insight

ENERGY
Tech Review

World  **oils**

DAY 1

Wednesday, 22nd of March 2023

08:00 **REGISTRATION & COFFEE**

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

Matthias Kuba
Area Manager - Bioenergy and
Sustainable Technologies,
**BEST - Bioenergy and
Sustainable Technologies GmbH**

09:15 **KEYNOTE PRESENTATION**
Presentation Title to be Confirmed

Matthias Kuba
Area Manager - Bioenergy and
Sustainable Technologies,
**BEST - Bioenergy and
Sustainable Technologies GmbH**

09:30 **CONFERENCE PRESENTATION**
**The role for gasification for production of
plastics in a circular economy**

- Replacing fossil feedstock with waste for our primary production of plastics is that feasible?
- How can the gasification process be integrated into existing process industry to realize waste as primary feedstock?
- How can the gasification process be optimized to maximize the energy efficiency of the recycling of waste to new plastics?



Henrik Thunman
Head of Division and Professor,
**Chalmers University of
Technology**

10:15 **CONFERENCE PRESENTATION**
**Gasification as flexible technology to
valorise different waste streams**

Antonio Lucci
Carbon Reduction Excellence Senior
Business Manager,
RIINA

11:00 **MORNING REFRESHMENTS**

11:30

SESSION TWO

Promoting the Use of Gasification in SAF

- SAF production using gasification
- Fischer-Tropsch synthesis

Eva van Mastbergen
Senior Project Lead
SkyNRG

Methanol to Jet (or Gasoline)

- Methanol as an intermediate for eFuels and BioFuels
- Methanol to Gasoline
- Methanol to Jet

Tracy Loughran
Senior Principal Engineer – Heavy
Oil Conversion
ExxonMobil

**Improving carbon efficiency for an advanced
Biomass-to-SAF process**

Sebastian Fendt
Group Leader
Munich Technical University

13:20

LUNCH

14:20

CONFERENCE PRESENTATION
**SURE's sustainable biomass certification for
gasification plants: demonstrating
compliance with the EU Renewable Energies
Directive 2018/2001 (RED II) and Europe's
green energy targets**

- RED II and Europe's green energy targets
- SURE certification scheme
- Application of SURE certification to gasification plants

Amparo Arellano
Senior Expert Sustainability
Certification
Sure-System

15:05

CONFERENCE PRESENTATION
**ENERGY TRANSITION – A variety of
opportunities for gasification processes**

- Proven process equipment solutions for decades
- Customized first time equipment for upcoming new processes



Nikolaus Garrels
Product & Sales Manager Gasification
Business
ARVOS SCHMIDTSCH SCHACK

15:25

CONFERENCE PRESENTATION

Scaling Up Gasification

- Moving on from large-scale projects
- Downstream conversion of syngas
- Increasing commercial interest in gasification projects

Christiaan van der Meijden
Consultant Gasification
Biomass Energy Engineering

16:10

AFTERNOON REFRESHMENTS

16:40

CONFERENCE PRESENTATION

HTW® Gasification: A proven path towards Advanced Biofuels



Dr. Elyas Moghaddam
Head of R&D
GIDARA Energy

- Waste to Chemical Innovation Centre
- Pilot-scale HTW® gasification tests
- Flagship facilities for conversion of waste to bio-methanol

17:00

CONFERENCE PRESENTATION

Valorisation of H₂- and CO₂-rich gases by methanation



Robert Böhm
Product and Marketing Manager
Power-to-Gas
Hitachi

- Fundamentals of methanation
- Biological / Catalytic methanation
- Use cases for the technology
- Current methanation projects and outlook

17:20

CONFERENCE PRESENTATION

BioTfuel : A example of technology derisking for SAF take off

Michael Hecquet
Biomass engineer
TotalEnergies

18:05

CLOSE OF DAY ONE

DAY 2

Thursday, 23rd of March 2023

08:30

REGISTRATION & COFFEE

09:00

CHAIRPERSON'S OPENING REMARKS

Matthias Kuba
Area Manager - Bioenergy and
Sustainable Technologies,
**BEST - Bioenergy and
Sustainable Technologies GmbH**

09:05

CONFERENCE PRESENTATION

Presentation Title to be Confirmed

Lizzie German
Investment and Technology
Manager
Dimeta

09:40

SESSION FOUR

Waste Gasification- The Future of the Industry?

- Plastic recycling opportunities
- Filling a niche in the circular economy

Christian Wolfersdorf
Research And Development
RWE

10:55

MORNING REFRESHMENTS

11:25

CONFERENCE PRESENTATION

Presentation Title to be Confirmed

Iulius Markovits
Technical Engineer Business
Development Renewables
BAYERNOIL

12:10

CONFERENCE PRESENTATION

Overcoming the Technical Challenges for Syngas Cleaning Systems



James Scott-Bowden
Group Managing Director
ERG (Air Pollution Control) Ltd

- ERG (Air Pollution Control) Ltd, working closely with (CSS) Compact Syngas Solution Ltd and Refgas Ltd, has over the last 15 years developed an in depth understanding of the challenges of treating syngas from wood chip, RDF and plastic waste to a cleanliness suitable for engines

- The principal challenge for the majority of syngas cleaning systems is the combination of particulate char residue together with condensable tars and hydrocarbons
- ERG has developed a unique and robust method for meeting this challenge using high temperature filtration using metal filters as opposed to ceramic filters and then V-tex® scrubbing technology as opposed to packed tower technology to capture condensing tars and hydrocarbon as well as alkaline and acidic contamination

12:30

CONFERENCE PRESENTATION

Building the Low Carbon Future TODAY



Clifton G. Keeler
Vice President Business Development
SunGas Renewables

- Biomass Gasification, the Next Big Wedge of Low Carbon Fuel Supply
- Are biomass supplies enough to make a meaningful difference?
- Challenges and How the Investment Reduction Act in the US is catalyzing development
- What SunGas is Doing to make a difference
- What will the renewable syngas industry look

12:50

LUNCH

13:50

SESSION FIVE

New Technology in Gasification

- New technologies improving efficiency

PRENFLO Gasification as Main Proven Building Block for Biomass to X

- Biomass Gasification as Main Building Block to Produce Green Chemicals
- PRENFLO (PRessurized ENtrained FLOW) Gasification
- Biomass Feedstock Pretreatment
- Water Electrolysis as Sustainable Hydrogen Provider
- Power & Biomass to Fischer-Tropsch Liquids
- Power & Biomass to Methanol



Mehnoush Rahimzadeh
Process Engineer
thyssenkrupp

15:05

CONFERENCE PRESENTATION

Plant-Owner's Perspective

- Present difficulties and experiences
- How the industry is changing

Osama Saeed Alardani
Process Engineer
Saudi Aramco

Mohammad Saud Alshahrani
Process Engineer
Saudi Aramco

15:50

CHAIRPERSON'S CLOSING REMARKS

Matthias Kuba
Area Manager - Bioenergy and Sustainable Technologies,
BEST - Bioenergy and Sustainable Technologies GmbH

16:00

END OF CONFERENCE & AFTERNOON REFRESHMENTS