

EUROPEAN CONFERENCE

BIOMASS POWER UN

Stockholm, Sweden, 4-5 March 2020

Biomass In EU Circular Economy

Latest data of European biomass market * Biomass power & thermal energy
Success stories from the Nordics * New built CHP plants in Europe
Pellet market development worldwide * New solutions for Combined Heat & Power
Supply chain and provision of raw materials * Role of biomass in climate preservation
Speakers include:

Johan Mertens, Global Energy Management, Engie
Carlos Retortillo, Operations Director, Ence Energía y Celulosa
Esa Tepponen, Project Manager, Lahti Energia
Lauma Kazuša, Head of Market Analysis, SUEZ
Antonio Abizzo, Plant Director, E.ON
And many more

Exclusive Site Visit

On the 3 March 2020

A limited number of conference participants will receive a unique opportunity to visit state of the art site **E.ON Högbytorp CHP plant**

There is no extra charge to attend the site visit, but spaces are allocated on first register, first served basis. Book you space sooner to avoid disappointment.



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About Event: Growing biomass demand, new legislation economics and many more Utilization of biomass as a source of power is a critical challenge facing the world. However, the decisions facing stakeholders such as producers, growers, regulators and investors are complex. That is why we will tackle this raising question and make new ideas with market participants.

Who should attend:

The Biomass PowerON Conference will bring together top level experts from Power Companies, Biomass Traders & Distribution Companies, Producers of Biomass, Renewable Energy Consultancies, EPC Contractors and OEMs, Regulatory & Research experts, Government organizations and others.

Why attend the Biomass PowerON Conference:

Gain a comprehensive overview of the global biomass market on this 2 day event filled with presentations from industry end-users and running projects case studies. Hear experts focus on new regulatory framework, changing demand, biomass economics and more Network and exchange ideas with colleagues from the bioenergy industry

Conference Venue

HILTON STOCKHOLM SLUSSEN GULDGRÄND 8, STOCKHOLM, SWEDEN stockholm-slussen@hilton.com TEL: +46-8-51735300



A spectacular location in the heart of Stockholm

Find Hilton Stockholm Slussen in the hip Södermalm area, with fantastic views overlooking the water and historic Old Town. Stay just a walk away from top attractions and the city center. Take in the airy decor and natural light that make up our spacious accommodations and meeting spaces. Indulge at our restaurants and bar, offering panoramic views of the city. Whether you're here for work, family vacation, to explore or relax, our hotel serves as the perfect base.

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Site Visit Agenda

The day before the main event, on the 3 March, a limited number of conference participants will receive a unique opportunity to visit state of the art site **E.ON Högbytorp CHP plant**

8:45 Meet up Hilton Slussen Hotel Lobby

9:15 Departure to E.ON Hogbytorp

10.00 Arrival E.ON Hogbytorp

10:00-12:00 Touring E.ON Hogbytorp

12.00 Departure for Bro Hof Slott Restaurant (lunch)

13:00 Departure for the Hilton Slussen Hotel

13.45 Arrival at Hilton Slussen Hotel

Transport will be provided by the organizers.

Spaces are allocated on first come first served basis. It is recommended to book your place early to avoid disappointment.



Högbytorp will be integrating material and energy recovery in a unique, efficient and sustainable way, generating electricity, heat, biogas and biofertiliser from waste products. At the Högbytorp, recycling plant the annual production of energy is 650 GWh, of which:

• heating: 425 GWh

• electricity: 165 GWh

• biogas: 60 GWh



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4 March 2020 Conference - Programme

REGISTRATION & COFFEE

ORGANISER'S WELCOME MESSAGE

09:05 CHAIRMAN'S OPENING SPEECH

ChairmanDAY1 Petteri Pihlajamäki, Director, AFRY Management Consulting

09:15 European markets outlook

General market overview in European and global context Uncertainties and opportunities in biomass market

Role of biomass in renewable energy

Regional policy review, analysis on regulatory framework

Speaker: Lauma Kazuša, Head of Market Analysis, SUEZ Trading Europe

09:45 **Conference Presentation**

Nordic biomass market – countries current overview The policy landscape - drivers and barriers

Vision & roadmap

Speaker: Gustav Melin, CEO, Svebio

Global development of bioenergy sector 10:15

Latest data on bioenergy and renewable development International energy and climate policy landscape

Challenges and opportunities for bioenergy deploymen

Speaker: Bharadwaj Kummamuru, Executive Director, World Bioenergy Association

MORNING REFRESHMENTS & NETWORKING BREAK 10:45

11:15 Baltic states market and energy exchange, like the transparent channel for trade biomass with

Speaker: Svetlana Kavina, Head of Business Development Baltpool

Biomass price. Core biomass price components and what affects it

Speaker: Vaidotas Jonutis, Head of Trade Division, Baltpool

Small scale biomass CHP's 1 - 12 MWe case studies 11.45

1 – 12 MWe / 1 – 50 MWth capacity highly efficient HoSt biomass-fired heat and power plants. Speaker :Wouter Kok, HoSt

Financing Biomass CHP Projects

Financial framework for the implementation of biomass plants

Current approach of funding infrastructures of biomass in Europe

Overview of public and private financing sources & other financing tools

Speaker: Pierre-Emmanuel Noel, European Investment Bank

NETWORKING LUNCH

13:45 LAHTI ENERGY, Energy shift from fossil fuels towards renewable energy

By investing in modern technologies, Lahti Energy is able to reduce 600 000 t/a annual carbon dioxide emissions, which corresponds 80% reduction of the level they were in 1990

2012: Start-up of Kymijärvi II SRF gasification power plant

2019: End of coal firing and start-up of Kymijärvi III biomass fired power plant

Speaker: Esa Tepponen, Project Manager, Lahti Energia

Small to Medium size Cogeneration with Biomass fired water Tube Boilers

Technical and economic Design

Effiency and availability

Examples and market requirements Speaker: <u>Carl W. Seitz Kohlbach Energieanlagen</u>

AFTERNOON REFRESHMENTS - NETWORKING BREAK

15:15 Why do complex feats of engineering fail? (And what to do about it)

It's, typically not the engineering side that falls over

A lack of project risk management

Limited on-the-ground experience

Speaker : <u>Samuel Smith, Epeus</u>

PANEL DISCUSSION + Q & A 15:45

Key challenges and opportunities for biomass industry

16:35 Chairman closing remarks day one AND DRINK RECEPTION !!!





















5 March 2020 Conference - Programme

CHAIRMAN'S WELCOME MESSAGE & OPENING DAY TWO ChairmanDAY2: Johan Mertens, Global Energy Management, Engie

Corresponding to the market trends and optimizing technology

Experience and latest developments of Turboden CHP proven technology

Speaker: Riccardo Vescovo, Biomass Application Manage, Turboden

09:45 Macchiareddu Project: a case study of a 38% efficiency biomass power plant

Role of the EPC Contractor: partner, not only supplier

EPC key skills: technical know how and project control

Example of high electrical efficiency biomass power plant.

Speaker: Stefano Stella, Sales Manager, STC Power

10:15 **Plant Presentation E.ON Hogbytorp**

Actual case study

Högbytorp in numbers

Technical summary

Speaker: Antonio Abizzo, Plant Director, E.ON

MORNING REFRESHMENTS & NETWORKING BREAK 10:40

11:15 Giammarco-Vetrocoke technology for CO2 capture from flue gas for CCS and CCU

Technical Efficiency

Speaker: <u>Luigi Tomasi, CEO, Giammarco-Vetrocoke</u>

Biomass-fired boiler plants, power plants and heat and power plants (CHP) 25 to 170 MWth 11:45

Multi-fuel fired biomass cogeneration plant

Speaker: Frank S. Lund , Head of Strategy and Marketing , AET

12:15 Moving material and storage solutions

Material handling is imperative for process economy

Substantial energy saving hand in hand with improved performance and optimizing process Speaker: Göran Forsberg, Jeffrey Rader

NETWORKING LUNCH 12:45

Biomass Power Plants/Projects in Southern Europe/Croatia 13:45

General info on organizational structure of RE industry with main stakeholders

General information on the renewable energy projects

Presentation of the new market premium system

Major issues in the development of the biomass power plant projects

Speaker: Vanesa Vujanic Energy & Environment Law

14:15 Flue gas cleaning for Biomass/RDF/Waste to Energy

Recent RDF plant projects in the UK Compliance with the new LCP and/or WI BREF Waste water free (limited) flue gas condensation

Dioxin abatement and memory effect prevention
Speaker: Sven Andersson, Babcock & Wilcox Vølund AB

14:45 CONFERENCE PRESENTATION

Wear challenges when fuel converting into demolition wood and RDF Wear theory within biomass plants Possible solutions

Proven applications from the biomass plants

Speaker: Hans Bengtsson, Sales Manager, Castolin

AFTERNOON REFRESHMENTS - NETWORKING BREAK

16:30 Chairman closing remarks end of conference.





















Registration

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Industry pass (2 days)

€1195 (inc.VAT)

Academic pass * (2 days)

€795 (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

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