

Practicalities of the webinar

- You are welcome to write questions to the <u>chat box</u> as you listen – we will answer at the end of the webinar
- All attendees are muted.
- The webinar will be recorded.

The material presented will be available in the websites:

COMSYN <u>https://www.comsynproject.eu/</u> FLEXCHX <u>http://www.flexchx.eu/index.htm</u>

Compact Gasification and Synthesis process for Transport Fuels

COMSYN www.comsynproject.eu



Decentralized primary conversion of biomass in 30 – 150 MW units.

Technology development for primary conversion, Fischer-Tropsch synthesis and oil refinery feeding systems.



FlexCHX project has received funding from the European Union's Horizon 2020 research and innovation Programme under Grant Agreement No 763919.



FLEXCHX

Flexible combined production of power, heat and transport fuels from renewable energy sources

- Duration: 38 M, March 2018 April 2021
- H2020 funding: 4 489 545 €
- Coordinator: VTT, Esa Kurkela
- Consortium, 10 partners:

VTT (Finland), Enerstena (Lithuania), INERATEC (Germany), DLR (Germany), HELEN (Finland), Kauno Energija (Lithuania), Lithuanian Energy Institute (Lithuania), NESTE Engineering Solutions (Finland), Johnson Matthey (UK) and Grönmark (Finland)



VISION

ENERSTENA

- To realise a process for optimal use of the seasonal solar energy supply and available biomass resources
- Satisfy the seasonal demand for heat and power, and to produce low-GHG fuels for the transport sector.

INERATEC





Johnson Matthey Inspiring science, enhancing life

Grönmark

NESTE

Speakers



Johanna Kihlman, VTT COMSYN Coordinator



Adrew Steele Johnson Matthey



Jan Jencik ORLEN UniCRE



Sanna Tuomi VTT



Christian Frilund VTT



Vincenzo Tota Wood



Esa Kurkela, VTT FLEXCHX Coordinator



Tim Boeltken



Ralph-Uwe Dietrich DLR



Harald Balzer GKN



Mikko Wuokko Neste Engineering Solutions

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These projects have received funding from the European Union's Horizon 2020 research and innovation Programme under Grant Agreement No 763919 FLEXCHX and No 727476 COMSYN.

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10:20 - 10:35	Gasification technologies for small-to-medium scale syngas plants Esa Kurkela, VTT
10:35 - 10:45	Hot filtration Harald Balzer, GKN Sinter Metals Filters
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10:55 – 11:05	Sorbent-based final gas clean-up Christian Frilund, VTT
11:05 - 11:20	Compact Fischer-Tropsch synthesis Tim Boeltken, INERATEC
11:20 - 11:40	Use of FT product at oil refineries Processing alternatives Mikko Wuokko, NESTE Engineering Solutions Vision of ORLEN UniCRE Jan Jencik, ORLEN UniCRE
11:40 - 11:55	Techno-economic studies for COMSYN process Vincenzo Tota, Wood
11:55 - 12:10	Techno-economic studies for FlexCHX process Ralph-Uwe Dietrich, DLR
12:10 - 12:15	Concluding remarks Esa Kurkela, VTT
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