



**Value-optimised use of biomass  
in a flexible energy infrastructure**

Dear Recipient,

You are welcome to hear on April 12<sup>th</sup> 12:00-15:00 CEST the final results from the VaBiSys project, funded under the ERA-Net Bioenergy network and BESTF3 ERA-Net co-fund mechanism.

The overall objective of the VaBiSys project was to develop new technologies and concepts that improve the value of bioenergy resources in an energy system that is dominated by variable renewable energy (VRE) such as wind and solar. The project consortium, coordinated by VTT, includes DBFZ, RISE, Valmet, Enertech, Falbygden Energi, SFTec, Helen and E.ON.

When an energy system becomes dominated by VRE generation, completely new types of flexible resources are needed to maintain a stable and reliable supply of energy. Our project aimed to understand the role that bioenergy can play in this transition as a source of sustainable flexibility. As bioenergy is a finite resource, it will be important to identify those applications and concepts that bring most value for the future energy system.

These issues were addressed by 1) Development of new bioenergy solutions to serve energy markets with a high need for flexibility; 2) Significantly extending the flexibility of known bioenergy technologies; 3) Identification of costs, benefits and development needs for potential bioenergy concepts in a VRE dominated energy system; 4) Improved understanding about the economic, social and environmental sustainability of biomass used in a flexible energy system; and 5) Accelerating the deployment of flexible bioenergy technologies via market assessments and development of potential business plans.

**[Reserve your seat in the on-line webinar via this link.](#)**

Participation is free of charge, and the webinar is public. Please see the details of the webinar's schedule in the table below.

Time (CEST)	Webinar schedule
12:00-12:10	Welcome and introduction to the VaBiSys-project <b>Lauri Kujanpää</b> , Coordinator, VTT
	<i>Role of Biomass in Future Energy System</i>
12:10-12:25	A keynote speech by Dr <b>Ilkka Hannula</b> , Senior Energy Analyst, IEA
12:25-12:45	Flexible biomass in 2030s district heating systems <b>Tomi Lindroos</b> , VTT
	<i>Technologies and Business Models</i>
12:45-13:05	Value-optimised use of biomass in small-scale gasifier <b>Daniel Büchner</b> , DBFZ
13:05-13:25	Low Carbon flexibility with industrial sized CFB boilers <b>Mikko Varonen</b> , Valmet
13:25-13:45	<i>Break</i>
13:45-14:05	Solar enhanced biomass drying for improved efficiency of biomass supply <b>Jyrki Raitila</b> , VTT
14:05-14:25	Assessment of potential revenues from electricity market for bio-based CHPs <b>Jonas Dahl &amp; Camille Hamon</b> , RISE
	<i>Sustainability and Acceptability</i>
14:25-14:45	Studying the social acceptance of emerging RES concepts - findings related to flexible use of bioenergy <b>Hanna Pihkola &amp; Lassi Similä</b> , VTT
14:45-15:00	Wrap-up and discussions

Kind regards,

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