

Innovative bio-based products: Investment, Environmental Impacts and Future Perspectives

Results of a tender study

06 June 2018 | Crowne Plaza Brussels - Le Palace | Rue Gineste 3, 1210, Brussels, Belgium

Programme

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Time	Programme	
09:00	REGISTRATION AND COFFEE	
09:30	Welcome, high-level statement	
	John Bell, Director of Bioeconomy, DG Research & Innovation, European Commission	
09:40	Opening Session	
	Moderator: Peter Woodward, Quest Associates	
09:50	The circular economy and the bioeconomy - Partners in sustainability	
	Mieke De Schoenmakere, Project manager, Green Economy, European Environment Agency	
10:05	Life Cycle Assessment (LCA) of seven innovative bio-based products	
	Li Shen, Assistant Professor, Energy & Resources, Utrecht University	
10:20	Some key methodological aspects related to the LCA case studies	
	Rana Pant, Team Leader, European Commission, Joint Research Centre, Directorate	
	Sustainable Resources - Bio-Economy Unit (D1)	
10:30	Mini-panel with:	
	Li Shen, Assistant Professor, Energy & Resources, Utrecht University	
	Rana Pant, Team Leader, European Commission, Joint Research Centre, Directorate	
	Sustainable Resources - Bio-Economy Unit (D1)	
	Rob van der Meij, Investment Manager, Capricorn Venture Partners	
	Udo Felten, Manager Product Related Global Environmental Sustainability and Affairs, SIG	
	Gerfried Jungmeier, Expert on Life Cycle (Sustainability) Assessment and Biorefineries,	
10:50	Joanneum Research Forschungsgesellschaft COFFEE BREAK	
11:20	Success stories of bio-based products in Europe, with insights on key enablers,	
	challenges and the investment potentials offered	
44.25	Malene Sand Jespersen, Market Director, COWI	
11:35	The Winding Road to Success for Bio-based Products: Journey of the ins and outs for CelluComp and its owners	
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11.15	Christian Kemp-Griffin, Executive Director and CEO, CelluComp	
11:45	Mini-panel with: Malene Sand Jespersen, Market Director, COWI	
	Christian Kemp-Griffin, Executive Director and CEO of CelluComp	
	Rob van der Meij, Investment Manager, Capricorn Venture Partners	
	Udo Felten , Manager Product Related Global Environmental Sustainability and Affairs, SIG	
	Gerfried Jungmeier, Expert on Life Cycle (Sustainability) Assessment and Biorefineries,	
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Joanneum Research Forschungsgesellschaft



Time	Programme				
12:05	Top emerging bio-based products, their properties and industrial applications				
	Paola Fabbri, Associate Professor, University of Bologna				
12:15					
	Ed de Jong, VP Development at Avantium				
12:30					
	Paola Fabbri, Associate Professor, University of Bologna				
	Ed de Jong, VP Development at Avantium				
	Rob van der Meij, Investment Manager, Capricorn Venture Partners				
	Udo Felten, Manager Product Related Global Environmental Sustainability and Affairs, SIG				
	Gerfried Jungmeier, Expert on Life Cycle (Sustainability) Assessment and Biorefineries,				
	Joanneum Research Forschungsgesellschaft				
12:50	BUFFET LUNCH				
14:00	Session I: Environmental	Session II: Successes in	Session III: Prospecting		
	impact of innovative bio-based	mobilising finance for the	the Bioeconomy: What		
	products	development and	products are most		
	Moderator: Alex Williamson,	commercialisation of bio-	promising?		
	Bio-Based World News	based products	Moderator: Paola Fabbri,		
		Moderator: Luke Upton, Bio-	University of Bologna		
	In this session, the focus will be	Based World News			
	on the environmental		This session will present		
	performance of bio-based	In this session we will look at	and discuss the top 20		
	products through environmental	some of the different ways	innovative bio-based		
	Life Cycle Assessments (LCA).	in which markets can be	products that have been		
	The novelty aspects of the LCA	reached, private finance can	identified as having the		
	methodology applied in the	be mobilized or profitability	greatest potential for deployment in the next 5-		
	project, e.g. land-use change impacts, end of life modelling	can be achieved and hear	10 years, with focus on		
	and comparison with fossil	from companies and organisations with direct	the most relevant value		
	reference products will be	experience in these crucial	chains from key biomass		
	discussed.	dimensions of success.	intermediates.		
15:30	COFFEE BREAK				
16:00	Closing Session				
	Report from Parallel Sessions and Panel Discussion with:				
	Rob van der Meij, Investment Manager, Capricorn Venture Partners				
	Udo Felten, Manager Product Related Global Environmental Sustainability and Affairs, SIG				
	Gerfried Jungmeier, Expert on Life Cycle (Sustainability) Assessment and Biorefineries,				
	Joanneum Research Forschungsgesellschaft				
	Malene Sand Jespersen, Market Director, COWI				
16:50	Closing remarks	,			
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Gaia Fantechi, Head of Unit, DG Research & Innovation, F2 Bio-based Products and Processing



Parallel Session I Environmental impact of innovative bio-based products

Moderator: Alex Williamson, Bio-Based World News (BBWN)

Time	Programme
14:00 - 14:15	Introduction to the main modelling approach, impact categories and initial
	cradle-to-gate results illustrated for the case study of single-use drinking cups
	for cold drinks
	Christian Moretti, Utrecht University
14:15 - 14:30	Determination of the fossil reference product and comparison of impacts
	Li Shen, Utrecht University
14:30 - 14:45	Modelling of direct and indirect land-use impacts and other non-PEF impact
	categories
	Lorie Hamelin, Hamelinlab Consulting / COWI
14:45 - 15:00	End-of-Life scenarios for bio-based and fossil products - advanced modelling
	and effect on impact categories
	Linda Høibye, COWI
15:00 - 15:25	Panel discussion with speakers
15:25 - 15:30	Wrap up and closing

Parallel Session II Successes in mobilising finance for the development and commercialisation of bio-based products

Moderator: Luke Upton, Bio-Based World News (BBWN)

Time	Programme		
14:00 - 14:15	Presentation of study: key observations regarding risks and drivers on a) financing,		
	b) commercialisation		
	Lucas Bossard, COWI		
14:15 - 14:25	Financing bio-based industries through partnerships		
	Suzy Renckens, Bio-Based Industries Consortium		
14:25 - 14:40	Deciding on investments - the process		
	Rob van der Meij, Investment Manager, Capricorn Venture Partners		
14:40 - 15:15	Panel discussion with:		
	 Tuomas Mustonen, Paptic® bags 		
	Pieter Imhof, BioBTX B.V.		
	 Giulia Gregori, Novamont S.p.A. 		
	 Tuomas Hänninen, Lumir Oy 		
	 Jeremiah Dutton, Trifilon AB 		
	 Lucas Bossard, COWI 		
	 Suzy Renckens, Bio-Based Industries Consortium 		



Parallel Session III Prospecting the Bioeconomy: What products are most promising?

Moderator: Paola Fabbri, University of Bologna

Time	Programme
14:00 - 14:20	Is Lignin the new oil?
	Panel discussion with:
	 Paola Fabbri, University of Bologna
	 Piret Kukk Fischer, Fraunhofer Institute for Systems and Innovation Research
	ISI • Ludo Diels, VITO
14.20 14.20	·
14:20 - 14:30	Q&A
14:30 - 14:50	Urban wastes: mainly a need of reduction or a great value?
	panel discussion with:
	 Paola Fabbri, University of Bologna
	 Martijn Vis, BTG Biomass Technology Group
	 Martin Junginger, Utrecht University
14:50 - 15:00	Emerging innovative bio-based products from BBI JU projects
	Paloma Mallorquin, Bio-Based Industries Joint Undertaking
15:00 - 15:20	Let's look into the future of bio-based products: what's up?
	Open discussion with:
	 Davide Viaggi, University of Bologna
	 Fabio Fava, University of Bologna
	 Paloma Mallorquin, Bio-Based Industries Joint Undertaking
15:20-15:30	Q&A