

## Scientific publications

Projects carried out within the f3 centre and the collaborative research program *Renewable transportation fuels and systems* (f3 and the Swedish Energy Agency) usually present their results in project reports. Several projects, both from phase 1 (2011-2014) and the current phase 2 (2014-2017) have though delivered results in the form of scientific publications. The below list includes published articles and linked projects up until November 2017, sorted by project title. NB! The list only includes publications reported to f3 and might not be complete.

Project title	Article title	Authors
<a href="#">A global overview of bio-economy strategies and visions</a>	<a href="#">The bio-economy in Europe: An overview</a>	McCormick, K. & Kautto, N.
	<a href="#">Strategies and Policies for the Bioeconomy and Bio-Based Economy: An Analysis of Official National Approaches</a>	Staffas, L., Gustavsson, M. & McCormick, K.
<a href="#">Accumulated Impacts from Increased Biofuel Consumption in Sweden</a>	<a href="#">Reviewing the environmental implications of increased consumption and trade of biofuels for transportation in Sweden</a>	Martin, M. et al.
<a href="#">Biogas from agricultural wastes and residues - Where and how much?</a>	<a href="#">Analyzing key constraints to biogas production from crop residues and manure in the EU—A spatially explicit model</a>	Einarsson, R. & Persson, M.U.
<a href="#">Biogas in the transport sector – An actor and policy analysis</a>	<a href="#">Biogas in the transport sector—actor and policy analysis focusing on the demand side in the Stockholm region</a>	Ammenberg, J. et al
<a href="#">Carbon Vision? Reviewing Environmental Systems Analyses of Biofuel Production in Sweden</a>	<a href="#">Life cycle assessments, carbon footprints and carbon visions: Analysing environmental systems analyses of transportation biofuels in Sweden.</a>	Martin, M. & Lazarevic, D.
<a href="#">Comparative system analysis of carbon preserving fermentation for biofuel production</a>	<a href="#">Techno-economics of carbon preserving butanol production using a combined fermentative and catalytic approach</a>	Nilsson, R. et al.
<a href="#">Enabling the transition to a bio-economy: innovation system dynamics and policy</a>	<a href="#">Towards a Bioeconomy in Europe: National, Regional and Industrial Strategies</a>	de Besi, M. & McCormick, K.
	<a href="#">Biorefineries in Sweden: Perspectives on the opportunities, challenges and future</a>	Voytenko Palgan, Y. & McCormick, K.
	<a href="#">Innovation system strengths and weaknesses in progressing sustainable technology: the case of Swedish biorefinery development</a>	Hellsmark, H. et al.
	<a href="#">The role of pilot and demonstration plants in technology development and innovation policy</a>	Hellsmark, H. et al.
	<a href="#">Unpacking resource mobilisation by incumbents for biorefineries: the role of micro-level factors for technological innovation system weaknesses</a>	Hansen, T. & Coenen, L.
	<a href="#">Path creation in Nordic energy and road transport systems – The role of technological characteristics</a>	Hansen, T. et al.

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<a href="#">Environmental and Socio-Economic Benefits from Swedish Biofuel Production</a>	<a href="#">Assessing the aggregated environmental benefits from by-products and utility synergies in the Swedish biofuel industry</a>	Martin, M. et al.
<a href="#">Ethanol production in biorefineries using lignocellulosic feedstock - GHG performance and energy balances</a>	<a href="#">Ethanol production in biorefineries using lignocellulosic feedstock – GHG performance, energy balance and implications of life cycle calculation methodology</a>	Karlsson, H. et al.
<a href="#">Glycerol-based isobutanol</a>	<a href="#">Pore Condensation in Glycerol Dehydration: Modification of a Mixed Oxide Catalyst</a>	Hulteberg, C., Laveau, A. & Brandin, JGM.
	<a href="#">Is there a future in glycerol as a feedstock in the production of biofuels and biochemicals?</a>	Bauer, F. & Hulteberg, C.
<a href="#">How can forest-derived methane complement biogas from anaerobic digestion in Swedish transport sector?</a>	<a href="#">Forest-derived methane in the Swedish transport sector: A closing window?</a>	Lönnqvist, T., Grönkvist, S. & Sandberg, T.
<a href="#">Impact of biogas energy crops on GHG emissions, soil organic matter and food crop production - A case study on farm level</a>	<a href="#">Greenhouse gas and energy assessment of the biogas from co-digestion injected into the natural gas grid: A Swedish case-study including effects on soil properties</a>	Lantz, M. & Börjesson, P.
<a href="#">Integrated assessment of vehicle fuels with sustainability LCA - social and environmental impacts in a life cycle perspective</a>	<a href="#">Addressing positive impacts in social LCA— discussing current and new approaches exemplified by the case of vehicle fuels</a>	Ekener, E., Hansson, J. & Gustavsson, M.
<a href="#">LCA and techno-economic analysis of on-site enzyme production in 2nd generation bioethanol production</a>	<a href="#">Integrating enzyme fermentation in lignocellulosic ethanol production: life-cycle assessment and techno-economic analysis</a>	Olofsson, J. et al.
<a href="#">LCA of biorefineries. Identification of key issues and methodological recommendations</a>	<a href="#">Review of methodological choices in LCA of biorefinery systems - key issues and recommendations</a>	Ahlgren, S. et al.
<a href="#">Optimization of biofuel supply chains based on liquefaction technologies</a>	<a href="#">Cost optimization of biofuel production – The impact of scale, integration, transport and supply chain configurations</a>	de Jong, S. et al.
<a href="#">Public procurement as a policy instrument to support the diffusion and use of renewable transport fuels</a>	<a href="#">What Characterizes a System Builder? The Role of Local Energy Companies in Energy System Transformation.</a>	Palm, J. & Fallde, M.
	<a href="#">Strategic use of green public procurement in the bus sector: challenges and opportunities</a>	Aldenius, M. & Khan, J.
	<a href="#">Public procurement of electric vehicles as a way to support a market: Examples from Sweden</a>	Palm, J. & Backman, F.

Project title	Article title	Authors
<a href="#">Scenarios for large-scale integration of renewable fuels in the Swedish road transport sector</a>	<a href="#">Biofuel futures in road transport - A modeling analysis for Sweden</a>	Börjesson, M. et al.
	<a href="#">Bioenergy futures in Sweden – system effects of CO2 reduction and fossil fuel phase-out policies</a>	Börjesson, M. et al.
<a href="#">Sustainability performance of lignocellulose-based ethanol and biogas co-produced in innovative biorefinery systems</a>	<a href="#">Possibilities for sustainable biorefineries based on agricultural residues – A case study of potential straw-based ethanol production in Sweden</a>	Ekman, A. et al.
<a href="#">Sustainable biofuels - critical review of current views and case studies using extended systems analysis providing new perspectives and positive examples</a>	<a href="#">Bioenergy production and sustainable development: science base for policymaking remains limited</a>	Robledo-Abad, C. et al.
	<a href="#">How to analyse ecosystem services in landscapes—A systematic review</a>	Englund, O., Berndes, G. & Cederberg, C.
	<a href="#">Future demand for forest-based biomass for energy purposes in Sweden</a>	Börjesson, P., Hansson, J. & Berndes, G.
	<a href="#">The potential role of forest management in Swedish scenarios towards climate neutrality by mid century</a>	Cintas, O. et al.
<a href="#">Techno-economic analysis of biomethane production with novel upgrading technology</a>	<a href="#">Techno-economic evaluation of biogas upgrading using ionic liquids in comparison with industrially used technology in Scandinavian anaerobic digestion plants</a>	Xie, Y. et al.
	<a href="#">Evaluation of imidazolium-based ionic liquids for biogas upgrading</a>	Xie, Y., Ma, C., Lu, X. & Ji, X.
<a href="#">Transport Biofuel Futures in Energy-Economic Modeling – A Review</a>	<a href="#">Transport biofuels in global energy–economy modelling – a review of comprehensive energy systems assessment approaches</a>	Ahlgren, E.O., Börjesson Hagberg, M. & Grahn, M.
<a href="#">The role of electrofuels: a cost-effective solution for future transport?</a>	<a href="#">Electrofuels for the transport sector: A review of production costs</a>	Brynnolf, S. et al.
	<a href="#">The Potential for Electrofuels Production in Sweden Utilizing Fossil and Biogenic CO2 Point Sources</a>	Hansson, J. et al.