

# LDE CENTRE FOR SUSTAINABILITY - STUDENT COMMUNITY

## Master's Thesis Market Event

24 February 2017



### PRESENTED TOPICS

*Ordered chronologically by presentation*

The following is an extensive list of the proposed topics, the speakers and the research institutes/departments:

#### Transitions and transition management

Speakers: Charlie Spok & Sem Oxenaar

Contact: [sprok@drift.eur.nl](mailto:sprok@drift.eur.nl)

Partner: Erasmus University of Rotterdam - [Dutch Research Institute for Transitions \(DRIFT\)](#): the institute lies at the intersections between education, consultancy, research and practice and boast a very close relationship with researches, agencies, companies and other parties.

Thesis topics:

1. Multi-actor perspective on shifting relationships in community energy/circular economy
2. In-depth study of ecovillages ecovillages
3. The development of clean urban mobility in Rotterdam

#### Agent Based Modelling for innovative transitions

Speaker: Amineh Ghorbani

Contact: – [a.ghorbani@tudelft.nl](mailto:a.ghorbani@tudelft.nl)

Partner: TU Delft – TPM section Energy & Industry

Thesis topics (research features primary data collection, ABM modelling, statistical analysis, R, Java):

1. Analysis of urban commons, in particular food production (urban farming, collective gardening)
2. How will demographic, economic and lifestyle scenarios affect the environmental footprints of future residents of the Delft area? – Collaboration with James Hutton Institute
3. How can we explain and manage the load distribution of electricity domestic electricity demand (consumption patterns occurring at home)? – Collaboration with UNESCO-IHE (contact: Pieter van der Zag)

#### Modelling the Circular Economy

Speaker: Franco Donati

Contact: for TU Delft [k.blok@tudelft.nl](mailto:k.blok@tudelft.nl) - for Leiden University. For Franco Donati: [francodonatid@gmail.com](mailto:francodonatid@gmail.com)

Partner: TU Delft – TPM section Energy and Industry

Thesis topic:

1. CE policy for specific products
2. Decarbonisation of energy intensive industries
3. Disaggregation of product categories
4. Modelling CE according to Best Available Techniques
5. Socio-economic consequences of CE initiatives

## The Organic Rankling Cycle (ORC)

Speaker: Sebastian Bahamonde

Contact: [S.Bahamonde@TUDelft.nl](mailto:S.Bahamonde@TUDelft.nl)

Partner: TU Delft – Department of Aerospace Engineering

Thesis topics:

1. Application of mini ORCs to renewable energies
2. Integration of fluid selection, component design and thermodynamic cycle analysis
3. Experimentation of supersonic working fluids

## RESPossible innovation

Link: [RESPossible innovation: linking formal and informal assessment in decision making on Energy project](#)

Speakers: Shannon Spruit & Elisabeth van de Grift

Contact: [S.L.Spruit@tudelft.nl](mailto:S.L.Spruit@tudelft.nl) - [e.m.h.r.vandegrift@tudelft.nl](mailto:e.m.h.r.vandegrift@tudelft.nl)

Partner: TU Delft – Department of Values, Technology and innovation

Thesis topics (knowledge of Dutch might be a must):

1. Case study: Historical/Empirical analysis of a large windfarm (desk research, interviews with actors,..)
2. Methodology: Literature review and development of a methodology for collaborative governance and participatory methods (co-design meetings)