



# Port Transition Course

## Tailor made course for innovators that strive for an energy efficient and circular port of Rotterdam

The Deltalinqs Climate Program has set ambitious climate goals for the Port of Rotterdam, including the reduction of CO<sub>2</sub> emissions by 80-95% before 2050.

This goal is an enormous challenge for the companies located in the Port of Rotterdam. For example reaching energy efficiency and introducing clean energy sources requires a complex mix of technological measures. Another challenging demand is to valorize waste streams in the port and to create a local circular economy. An overall view has to be kept to prevent these measures obstructing each other. To meet the ambitious climate goals of the port and our government, also your company needs to adopt cleaner processes, technologies and behaviours in a fast pace.

Deltalinqs and partners have developed a course for energy intensive industries. Deltalinqs promotes common interests of over 95% of all logistic, ports and industrial enterprises in mainport Rotterdam. Other partners, including TU Delft and TNO, are experts on energy innovation and consists of dynamic (start-up) companies, the best academic institutions and representation of the public sector. The aim of the course is to train engineers, technologists & researchers to become clean-tech innovators. The course consists of four modules of one day, spread over the months March - April in 2020.

# Programme Port Transition Course

## Module I: Energy Transition 'Innovation & Technology'

23 March 2020, 13:00 - 21:30 @ TNO & TU Delft

- Welcome, Agenda  
*Martine van Veelen & Willemijn Brouwer, Course Managers*
- Sustainable Energy Innovation: what's new and what's the future?  
*Willem Frens, Director Business Development Renewable Energy, TNO*
- Tour TNO lab future technologies
- Break
- Case: Geothermal Energy Project Westland  
*Luc Brugman, Manager Strategy Triaswestland*
- Group work: Vision development and Creative Thinking (part I)  
*Willemijn Brouwer, Creativityn, Facilitator*



- Break & Dinner
- Group work: Vision development and Creative Thinking (part II)  
*Willemijn Brouwer, Creativityn, Facilitator*

## Module II: Energy Transition 'the Challenge'

30 March 2020, 9:00 - 17:30 @ Deltalinqs Rotterdam

- Course Agenda, Innovation Ecosystem Development  
*Martine van Veelen & Willemijn Brouwer, Course Managers*

- Introduction participants
- Climate Change and Energy Transition: the Challenge  
*Prof. André Faaij, Director of Science ECN (TNO)*
- Break
- Setting the Scene, highlights Transition Agenda's and Policy measures
- Inspiration Startups
- Group work: Energy Challenges  
*Willemijn Brouwer, Creativityn, Facilitator*

## Module III: CO<sub>2</sub> neutral vs Circular port

6 April 2020, 13:00 - 21:30 @ Milgro Rotterdam

- Welcome, Agenda  
*Course Managers*
- Industrial circularity & Energy transition  
*Dr. ir. Gijsbert Korevaar, Associate Professor, Engineering systems & services, TU Delft*
- Industrial Recycling @ Milgro
- Tour Milgro
- Inspiration Start-ups
- Group work: Business Development (part I)  
*Bram van der Grinten, Ideal & Co, Facilitator*
- Break & Dinner
- Group work: Business Development (part II)  
*Bram van der Grinten, Ideal & Co, Facilitator*

## Course format & methodology

Our Professional Courses are interdisciplinary, stimulating and practitioner-oriented. Our format involves a highly innovative atmosphere by means of knowledge & inspiration sessions, system approach, co-creative methods and participatory activities, provided by the best experts & trainers of Europe.

## Who should attend?

This advanced course is tailor-made for companies in the Port of Rotterdam that want to make serious business out of the climate goals. The course covers a wide range of topics and possibilities for new energy recovery, efficient energy usage, circular economy, new business models and stakeholder engagement and is aimed at Engineers, Technologists, Researchers and technical Project Leads with basic engineering knowledge and skills.





# Results

In this course you will learn how to develop clean-tech solutions that can replace and/or improve the current technologies and processes in your department.

You'll receive the knowledge and skills necessary for the transition to clean and efficient energy systems, valorisation of waste streams, and you'll learn how to develop a business model and a strategy to successfully implement your solutions.

The course is a combination of knowledge transfer and application of this knowledge in group work sessions. On the final day you will present and discuss your personal project to a panel of experts and stakeholders.

After following this course you will have:

- Knowledge of policy & regulations for CO<sub>2</sub> emissions and the impact of these measures on your company.
- Knowledge of renewable and efficient energy technologies.
- Knowledge of future energy scenario's.
- Knowledge of valorisation of waste materials and the creation of a circular port system.
- Skills in innovation & product development.
- Skills in business model creation.

## Module IV: Port Transition 'Let's do it!'

14 April 2020, 9:00 - 17:30 @ Deltalinqs  
Rotterdam

- Welcome, Agenda  
*Course Managers*
- Discussion 'what is needed to bring the Port of Rotterdam to the next level'
- Groupwork: preparation speeddate experts/ stakeholders.  
*Willemijn Brouwer, Creativityn, Facilitator*
- Inspiration Start-ups
- Break
- Follow-up opportunities Energy Forum  
*Alice Krekt, Programme Director Climate Program*
- The next steps for your challenge: speeddate session with local experts and stakeholders
- Closure & Drinks

## Why should you attend?

- Receive an update of the latest insights and technological opportunities on the subject of energy efficiency, renewable energy, and circular economy.
- Work on your own project and receive feedback from the best trainers and experts in the field.
- Work together with fellow engineers of different companies on the carbon neutral and circular future of the Port of Rotterdam.

## Registration and Fees

Course fee: EUR 1750 (ex. VAT) for the full program. Course fee covers participation in the course, learning materials, food, dinner and drinks during the course and site visits.

If you cancel the course up to 4 weeks before the start of the course, 50% of the participation fee will be charged. If you cancel less than 14 days before the start of the module, the full fee is due.

The deadline for applications is 1 March 2020.

Please register through the following link <https://forms.gle/kNUhmHpNV06UFRt8>

For further enquiries, please contact the Course Manager: [Martine.vanVeelen@capitalH.eu](mailto:Martine.vanVeelen@capitalH.eu)