

## Workshop on Upscaling energy renovation to the district level

**TU Delft, 25 September 2019**

### *Welcome to Delft!*

*Come participate in a half-day event on how to upscale home energy renovations to the district level. During a workshop, we will use insights from urban planners, local policy makers and businesses, to identify a number of drivers and barriers for policy and market development. To do that, we gather international experts from various countries. We hope to count you among them! In collaboration with international projects ([IEA EBC Annex 75](#), [Interreg 2 Seas Triple-A](#)) and national institutes ([Rijksdienst voor Ondernemend Nederland](#), [Climate-KIC](#), [TU Delft Urban Energy Platform](#)), we are proud to present an exciting line of speakers and open discussions.*

### *When?*

September 25, 2019, 12:00-17:30

### *Where?*

*Berlagezalen, Faculty of Architecture and the Built Environment, Delft University of Technology,  
Julianalaan 134, 2628 BL Delft, The Netherlands.*

### *What will you gain from this workshop?*

- *Insight into local drivers and barriers that might be relevant for your own policy and business development.*
- *Exemplary experiences from the development of sustainable urban development strategies, particularly in Dutch major cities (Amsterdam, Rotterdam).*
- *Knowledge about new possibilities for making district renovation more viable.*
- *Discussions about future policy instruments and emerging business models.*
- *A chance to share district renovation experiences with frontrunners and local authorities.*

### *For whom?*

*Amongst other we expect:*

- *National and local authorities,*
- *Business developers and renovation frontrunners,*
- *Concept suppliers and neighbourhood ambassadors,*
- *Policy, urban and business researchers,*
- *...*

## PROGRAMME

12:00 **Registration of participants/ lunch**

12:45 **Workshop goals**

*Moderator: Zeno Winkels, Climate-KIC/ TU Delft, The Netherlands*

**The IEA EBC Programme: supporting policy and business development**

*Daniel Van Rijn, The Netherlands Enterprise Agency (RVO), The Netherlands*

13:00 **The Annex 75 project: objectives on policy and business development**

*Manuela Almeida, University of Minho, Portugal*

**Experiences regarding building renovation at district scale**

*Moderator: Zeno Winkels, Climate-KIC/ TU Delft, The Netherlands*

13:15 **Local policy action for neighbourhood renovation**

*How to operate Amsterdam on clean energy?, Siebe Broersma, TU Delft, The Netherlands*

*Experiences from the development of sustainable neighbourhoods in Rotterdam*

*André De Groot, City of Rotterdam, The Netherlands*

*Group renovation of owner-occupant's houses in Mechelen, Ighor Van de Vyver, City of Mechelen, Belgium*

14:00 **Frontrunner market approaches for neighbourhood renovation**

*The role of ESCO's in large scale renovation, Johan Coolen, Factor 4, Belgium*

*Climate Mission initiative, Rene Pie, Klimaatmissie, The Netherlands*

*Interregional business model, Arno Groenendijk, TRANSFORM, The Netherlands*

14:45 **Q&A**

15:00 **Coffee break**

15:30 **Break-out Sessions: Policy instruments & Business Models**

17:00 **Conclusions**

*Findings Policy Instruments, Frits Meijer, TU Delft, The Netherlands*

*Findings Business Models, Thaleia Konstantinou, TU Delft, The Netherlands*

*Lessons for the IEA EBC Annex 75, Zeno Winkels, Climate-KIC/ TU Delft, The Netherlands*

*Lessons for the Netherlands Enterprise Agency, Daniel Van Rijn, RVO, The Netherlands*

17:30 **Closure**

### **Break-out Session 1: Best-practice policy instruments**

*Moderators: Hauke Meyer & Jens Freudenberg, German Association for Housing, Urban and Spatial Development, Germany; Erwin Mlecnik & Frits Meijer, TU Delft, The Netherlands; Juan Maria Hidalgo, University of the Basque Country, Spain*

*Round 1: review of policy instruments supporting neighbourhood renovation in various countries (Netherlands, Belgium, Germany, France, Spain,...)*

*Round 2: interactive session: participants reflect on what policy instruments are best suited to upscale home energy renovations to the district level.*

### **Break-out Session 2: Business models district renovation**

*Moderators: Uta Schneider – Gräfin zu Lynar, B.&S.U. Beratungs- und Service-Gesellschaft Umwelt mbH, Germany; Zeno Winkels, Climate-KIC & TU Delft, The Netherlands; Thaleia Konstantinou, TU Delft, The Netherlands*

*Round 1: stakeholder motivations and barriers to engage in district renovation business models*

*Round 2: interactive session: participants reflect on how to solve main barriers for business model development (financial mechanisms, supporting policy,...)*

*This workshop is developed by TU Delft in the framework of the Interreg 2 Seas Mers Zeeën Project “Triple-A: stimulating the Adoption of low-carbon technologies by homeowners through Awareness and easy Access” - with support of the European Regional Development Fund and the Provinces of South Holland and West Flanders – and supporting the IEA EBC Annex 75 project “Cost-effective Building Renovation at District Level Combining Energy Efficiency & Renewables”.*

*All collected data will respect your privacy according to the Global Data Protection Regulation.*

## About Annex 75

The transformation of existing buildings into low-emission and low-energy buildings is particularly challenging in cities, where many buildings continue to rely too much on heat supply by fossil fuels. However, at the same time, there are specific opportunities to develop and take advantage of district-level solutions at urban scale. In this context, the project aims to clarify the cost-effectiveness of various approaches combining both energy efficiency measures and renewable energy measures at the district level.

### Objectives

The project aims to investigate cost-effective strategies for reducing greenhouse gas emissions and energy use in buildings in cities at district level, combining both energy efficiency measures and renewable energy measures. The objective is to provide guidance to policy makers, companies working in the field of the energy transition, as well as building owners for transforming cost-effectively the city's energy use in the existing building stock towards low emission and low energy solutions. The planned project focuses on the following objectives:

- To give an overview on various technology options, taking into account existing and emerging efficient technologies with potential to be successfully applied within that context, and how challenges specifically occurring in an urban context can be overcome;
- To develop a methodology which can be applied to urban districts in order to identify such cost-effective strategies, supporting decision makers in the evaluation of the efficiency, impacts, cost-effectiveness and acceptance of various strategies for renovating urban districts;
- To illustrate the development of such strategies in selected case studies and gather related best-practice examples;
- To give recommendations to policy makers and energy related companies on how they can influence the uptake of cost-effective combinations of energy efficiency measures and renewable energy measures in building renovation at district level, and to give guidance to building owners/investors on related cost-effective renovation strategies.

Accurate understandable information, guidelines, tools and recommendations will be provided to support decision-makers from public and private sectors in making better decisions and choose the best options that apply to their specific needs.

**Annex 75 is part of the IEA-EBC Programme, an international energy research and innovation programme in the buildings and communities field.**

**For more information:** <http://annex75.iea-ebc.org>  
[www.iea-ebc.org](http://www.iea-ebc.org)

## About Triple-A

“Triple-A: stimulating the Adoption of low-carbon technologies by homeowners through Awareness and easy Access” promotes local and regional authority cross-border cooperation between The Netherlands, France, Belgium and the United Kingdom in the field of home renovation. In this region, the building sector accounts for approximately 35% of CO<sub>2</sub> emissions. About 50% of the dwellings consist of single-family housing in the owner-occupied sector. Although there is an enormous potential to reduce CO<sub>2</sub> emissions by stimulating homeowners to adopt low-carbon technologies, the current average renovation rate is just around 1%. These concerns force local and regional authorities to develop specific strategies to increase home renovations by creating homeowner awareness and easy access of low-carbon technologies.

### Objectives

Triple-A aims to accelerate the adoption of low-carbon technologies by homeowners and as such contributes to achieving the EU 2020 targets (20% cut in greenhouse gas emissions, 20% of energy from renewables, 20% increase in energy efficiency). Actions and strategies are developed by local authorities in cooperation with their stakeholders, which are tested for housing retrofit projects in multiple cities and regions. The “Triple-A” strategy focuses on:

- Increasing ‘**A**wareness’: by making homeowners more conscious about the different low-carbon technologies available on the market and the related benefits.
- Securing easy ‘**A**ccess: by bringing low-carbon technologies closer to citizens in an attractive way, with the possibility to opt for the technologies that fit their own needs and financial means.
- The awareness and easy access should result in increased ‘**A**doption’ with more use of low-carbon technologies in existing houses.

The project – coordinated by TU Delft - benefits from a close collaboration between 7 local and regional authorities (Cities of Rotterdam, Breda, Mechelen, Antwerp and EOS Ostend, Kent County Council, SPEE Picardie), 2 universities (TU Delft, University of Ghent) and a distribution net manager (Fluvius). The project directly engages local and regional authorities, homeowners of single-family houses, SMEs (suppliers and installers), energy service companies, financial institutions, building federations, network clusters and knowledge institutes.

**Triple-A is part of the Interreg 2 Seas Mers Zeeën Programme (project number project number 2502-029), and is supported by the European Regional Development Fund (ERDF) and the Provinces of South Holland and West Flanders.**

**For more information:** <http://www.triple-a-interreg.eu>