

## Biomass and solar thermal for district heating in Ireland

21 people from 5 different EU countries (Denmark, Germany, Italy, Ireland and Spain) have met on April 12th in the Kerry County in Ireland for the second meeting of the SmartReFlex project to exchange experiences and best practices about district heating and cooling solutions using renewable energy and waste heat.

The meeting was held in the town of Tralee, which also can showcase a very interesting small district heating network with a combination of two renewables for producing heat: wood chip and solar thermal.



Photo: Solar thermal collectors on the rooftop

The Tobar Naofa system was officially opened by the Irish Minister for the Environment in May 2009. In a first phase, 42 apartments were built according to the B3 standard, which implies a quite low energy consumption for houses. A 1 MW wood chip fired district heating system provides heat to this development. The district heating grid has subsequently been extended to other nearby buildings including a primary school, 17 low carbon houses, a library, a school, a Southern Health Board building, an Integrated Services Building and 42

retrofitted houses constructed in the 1930s. The boilers generated 1,000 MWh of heat in 2014 and system utilization is expected to increase in 2014.

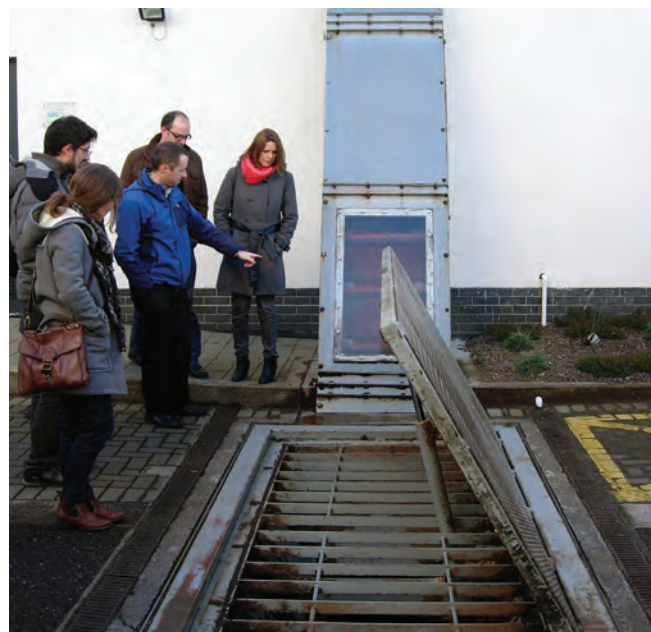


Photo: External filling funnel for wood chips.

The solar thermal plant is much smaller in size and also its contribution in terms of delivered heat is lower. Solar collectors have been installed on the roof of the building where the wood chip boiler, at ground floor, is located.

## SmartReflex Website online

The SmartReFlex project aims at increasing the diffusion of smart and flexible district heating and cooling systems (DHC), basing on high shares of renewable energy sources (RES), in different European cities. The project will provide new and innovative insights about local and regional approaches for a better promotion of DHC in combination with RES. A regional cooperation with high level stakeholders, which are actively involved makes sure, that the results of the SmartReFlex reach beyond the project boundaries.

In case we inspired your curiosity and you would like to gain more information about aims, developments and project partners? Then please visit our SmartReFlex website [www.smartreflex.eu](http://www.smartreflex.eu).

[smartreflex.eu](http://smartreflex.eu)

Smart and flexible 100% renewable district heating and cooling systems for European cities

On our website you get news and informations about the project and the background of our activities.

The website was created for being a platform for people who are interested in renewable energy sources in the district heating sector. Therefore it's also in function for interchanging knowledge between all stakeholders. Besides general information about the project and the structure, news and different articles are available. Moreover all future editions of the SmartReFlex E-Newsletter will be provided for downloading.

Following a short overview of the website:

#### 'Language menu'

Generally it's possible to choose between the different languages of the project regions. Each language relates to a special area, where translated contents are placed.

#### 'The Project'

General information about aims and approaches of the SmartReFlex Project. Technical and organizational aspects are displayed to explain what district heating is about.

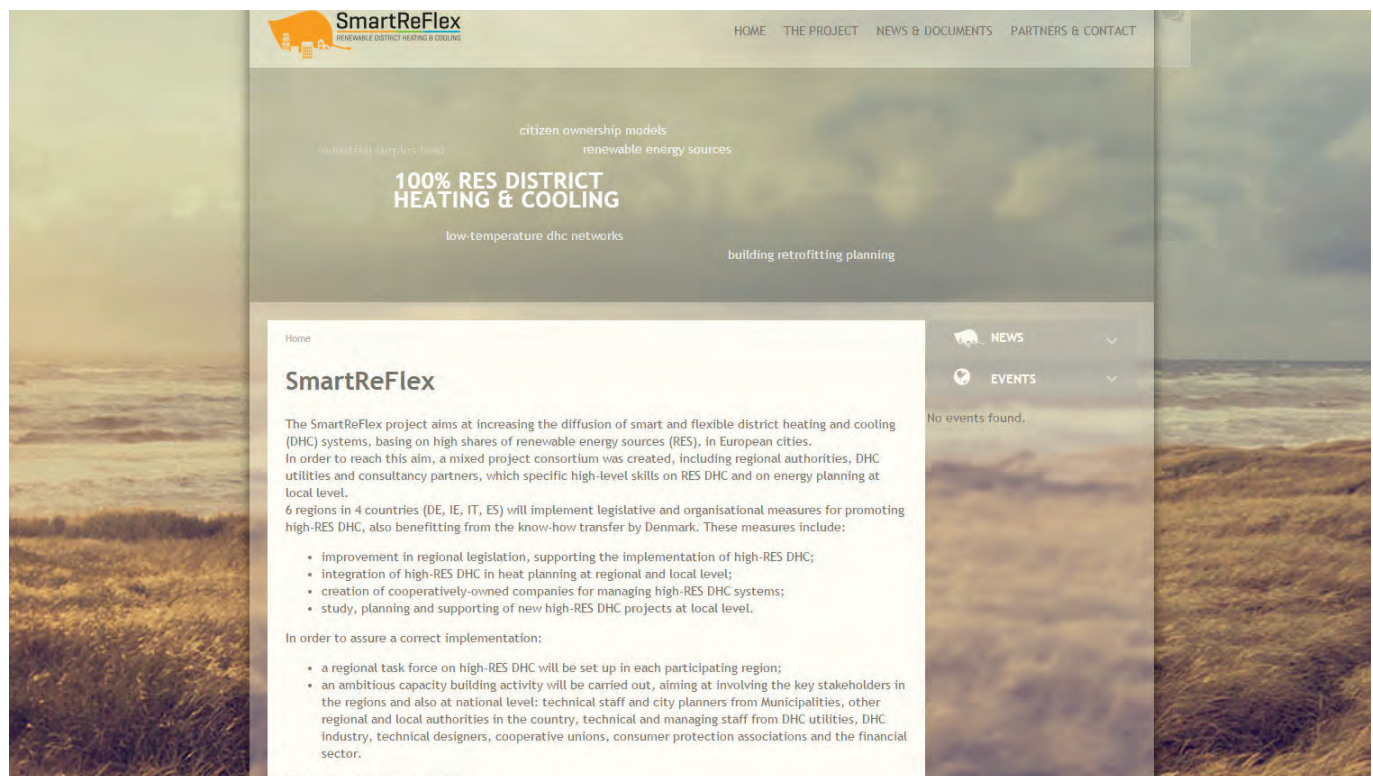
#### 'News & Documents'

In this category an overview of the latest news is represented. News will be organized chronologically starting with the most recent and are listed on the left hand side. On the right hand side is the drop down menu „Documents“, here all documents are available for downloading. Furthermore you can find documents like the Leaflet of SmartReFlex for downloading in each language area.

#### 'Partners & Contact'

Here are the logos of the project coordinator as well as the project partners. For more information please click the provided link to be directed to the website of each partner.

We look forward to your visit on our website and hope you will find many useful information for your work. If there are some suggestions for enhancing the content or structure, we would be pleased about your input by sending an E-Mail to [forschung@agfw.de](mailto:forschung@agfw.de).



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