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Smart networks integrating renewable and waste energy sources  
Newsletter #2  
September 2020

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REWARDHeat will demonstrate a new generation of low-temperature district heating and cooling networks, which will be able to recover renewable and waste heat available at low temperature

Focusing on the exploitation of the energy sources available within the urban context allows the decentralized solutions developed in the project to be replicated in cities across Europe

Read our second newsletter to find out about the latest project developments

## Demonstration Sites

With 7 demo sites, across 7 different countries, the REWARDHeat project will develop innovative solutions that can be replicated in urban environments across the EU.



- [Alberslund, Copenhagen, Denmark](#)
- [Topusko, Croatia](#)
- [La-Seyne-sur-Mer, Toulon, France](#)
- [Milan, Italy](#)
- [Helsingborg and Mölndal, Sweden](#)
- [Mijnwater, Heerlen, Netherlands](#)
- [Hamburg, Germany](#)

Demo Site	Low Temperature Network	Neutral Temperature Network	Waste Heat Exploitation	Heat Pumps	RES	Thermal Energy Storage
<a href="#"><u>Albertslund (DK)</u></a>	Present	Present	Present	Present	Present	Present
Topusko (CR)	Present	Present	Present	Present	Present	Present
Hamburg (DE)	Present	Present	Present	Present	Present	Present
La Seyne sur Mer (FR)	Present	Present	Present	Present	Present	Present
Milano (IT)	Present	Present	Present	Present	Present	Present
<a href="#"><u>Råå (SE)</u></a>	Present	Present	Present	Present	Present	Present
Heerlen (NL)	Present	Present	Present	Present	Present	Present

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## REWARDHeat Project Developments



## Website

The REWARDHeat website is now available online. The website will act as the main hub for project information. Check it out for yourself: [www.rewardheat.eu](http://www.rewardheat.eu)

## Check out our explainer video!

The latest REWARDHeat promotional video showcases its aims and expected impacts, drawing attention to the innovation of the technological cost-effective solutions to be developed by the project.

The video is now available, on the website and Youtube. Click the box on the right to watch it. ->>



## Shunt at the Albertslund demonstrator

A shunt has been installed in the Albertslund demonstrator network, allowing the operator to lower/optimize the temperature in the housing area "behind" the shunt.

[Find out more here!](#)

## Publications

Project coordinator, EURAC Research, published an article titled "Fifth-Generation District Heating and Cooling Substations: Demand Response with Artificial Neural Network-Based Model Predictive Control" in the open access Journal *Energies*. The article was published in a special issue on Modelling and Control of Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) Systems and is available [here](#).

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## REWARDHeat Webinars: Did you tune in?

### Webinar on 5th generation district heating and cooling

As part of the DHC+ webinar series, EHP organised a webinar on behalf of the REWARDHeat project. The webinar featured presentations from the coordinator as well as the Heerlen and La-Seyne-Sur-Mer demonstrators. There were over 100 attendees and the recording is available [here](#).



TAKE A BREAK WITH  
**DHC+**  
TECHNOLOGICAL PLATFORM

GRAB YOUR FAVOURITE MUG  
AND LET'S TALK ABOUT...

**5TH GENERATION  
DHC**

Brought to you by  REWARDHeat

THURSDAY, 28 MAY AT 14:00 CET



### Webinar on heat pumps

REWARDHeat participated in a webinar titled "HPs - Integral in District Heating", as part of EHPA's talk series. EURAC, the project coordinator, gave a presentation on the role of heat pumps in neutral temperature district heating. The event was attended by 193 individuals and the recording is available [here](#).

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### Where can you see us next?



### Sustainable Places 2020

We'll be at the SP 2020 conference taking place virtually on 28-30 October 2020. Join us and several other EU-funded projects for a workshop on integrating renewable energy into district heating and cooling networks. [More info here](#).

### Smart Energy Systems

We'll be at the Smart Energy Systems conference taking place in Aalborg on 6-7 October 2020. Make sure you catch the presentation from the University of Zagreb titled "Cost and Benefits of Shifting Towards Low Temperature District Heating Networks – Energy Planning Approach". [More info here](#).



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## General Assembly



The first REWARDHeat general assembly took place on 23-24 April 2020. The event took place online due to COVID-19 travel restrictions and was attended by 45 individuals representing 27 project partners. The next general assembly will take place on 21-23 October 2020. It was due to take place in Toulon, France but will likely be moved online, due to the ongoing restrictions.

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## Project Boost

### What is the potential for renewable district heating in your area?

Looking at the local or regional scale, what is the potential for supplying thermal energy through small district heating networks, fed by renewables and how can this potential be calculated?

In order to answer these questions, the ENTRAIN project has developed specific guidelines for developers of new networks that simplify the evaluation of renewable heat potential.

[More info here](#), under the Document section.



Connect on social media to stay up to date with REWARDHeat!

Follow the DHC+ Twitter for the latest updates

Check out our LinkedIn for more detailed info



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857811



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