

Set up under the umbrella of Euroheat & Power, DHC+ Technology Platform is the European hub for research & innovation in district heating and cooling

## Shaping the future energy system

### This Issue

Interview:  
Dominik Franjo Dominković

A final look at the  
STRATEGO activities

DHC+ Student Awards  
celebrated in Frankfurt

DHC+ Summer School  
2016 in Warsaw

SDHp2m project

DHC+ joined EUFORES

New consortium  
building opportunities

### Contact Us

DHC+ Technology Platform  
(c/o Euroheat & Power)  
Cours St Michel 30a box E  
1040 Brussels, Belgium  
Tel: +32 (0) 2 7402110  
Fax: +32 (0) 2 7402119  
[dhcplus@euroheat.org](mailto:dhcplus@euroheat.org)  
[www.dhcplus.eu](http://www.dhcplus.eu)



### Interview with Dominik Franjo Dominković, winner of the 4<sup>th</sup> International DHC+ Student Awards

#### **Why did you decide to participate in the DHC+ Student Awards competition?**

As students often carry out their research, presentations and projects only for a specific course, I was wondering whether my report would be relevant for a wider audience, as well as connected to the industry needs of today. As it is hard to assess the relevance of work carried out only as a part of the education, applying for the competition together with other students from various universities seemed an interesting opportunity. Finally, a nice research contribution award for the winner was especially motivating for sending my application.

#### **Is your research topic relevant now? For what reason(s)?**

Yes, indeed, I believe it is. Heat pump technology in the field of district heating is still not completely mature and still not utilising its full potential, calculated in numerous scientific papers dealing with energy planning. Furthermore, making stakeholders aware of the role of large-scale heat pumps is very important. Recently, the idea of integrating more intermittent renewable energy sources in the power sector by integration of the heat and power sectors with technologies such as heat pumps and thermal storages started receiving more and more support. As this is a cheaper way of increasing the share of intermittent sources in the power sector, it

Picture:  
Dominik  
receiving the award  
in Frankfurt



still needs to be promoted in order to receive acceptance from a broader community, not solely from the scientific sector.

#### **Would you recommend young researchers to take part in the DHC+ Education & Training initiatives? If yes, why?**

Yes, I would definitely recommend participating in the DHC+ Education & Training initiatives. I think that it is a great opportunity to meet colleagues from both academia and industry, to improve the flow of ideas and to get valuable connections that may prove helpful later in your career. Personally, I had a great opportunity during the En+Eff 2016 to meet representatives from large industrial companies, research institutes and different universities. I managed to discuss different issues, got valuable knowledge and insights from different EU projects and exchanged numerous contacts that are helping me now in progressing with my ongoing research. ■



# Stratego

ENHANCED HEATING  
& COOLING PLANS

## *Tackling the local challenges – a final look at the activities of the STRATEGO project as it draws to a close*

A total investment of approximately €1.1 trillion in energy efficiency measures between 2010 and 2050, will save enough fuel to reduce the costs of the energy systems of the Czech Republic, Croatia, Italy, Romania, and the United Kingdom, while reducing their carbon emissions by 50%. These were the findings of research conducted in the first half of the STRATEGO project.

However, ensuring strategic delivery of these energy efficiency opportunities is not easy. It requires locally tailored solutions, with innovative business models, technical support and cooperation between multiple stakeholders.

That is why many of the STRATEGO project activities have focused on the local level. Project partners have helped 30 cities and regions use local heating and cooling maps to identify priority opportunities and begin delivery.



Activities included international coaching and one-to-one expert support. Within the project, learning partners were paired with expert partners to participate in an international coaching process. Participants undertook study visits

and workshops focusing on issues such as identification and inclusion of renewable heat sources, designing and developing business models for multi-heat source district heating systems, integration of recoverable heat from industry or data centres, and thermal storage.

STRATEGO activities have also focused on building the crucial cooperation between local, regional and national authorities. This enabled development of effective projects as well as supportive and joined-up policies that facilitate continued expansion of project opportunities into the future.

These local project activities demonstrated the value of international knowledge exchange. Participants could see projects in action and learn from examples of how to do things differently. The activities also established new forms of dialogue between local and national authorities, by providing an evidence base to policy-makers of local delivery challenges and possible solutions.

The project activities have resulted in the identification of 49 energy efficiency projects with specific business models for each one. Output reports from the project will be available this autumn on the project website, including best practice examples, and international coaching guidelines.

More information: [www.stratego-project.eu](http://www.stratego-project.eu)

Article by:  
Ruth Bush  
Stratego Project Officer  
[ruth.bush@ed.ac.uk](mailto:ruth.bush@ed.ac.uk)  
[www.heatandthecity.org.uk/stratego](http://www.heatandthecity.org.uk/stratego)



Co-funded by the Intelligent Energy Europe  
Programme of the European Union



# Investing in Education & Training

## *DHC+ Student Awards 2016 celebrated in Frankfurt*

The 4<sup>th</sup> International DHC+ Student Awards ceremony took place on 19 April 2016 during the 22<sup>nd</sup> International Trade Fair and Congress for Heating, Cooling and CHP (En+Eff 2016) in Frankfurt.

This event brought together key decision makers as well as industry experts and a range of other leading voices from around the district energy sector and beyond. Leading experts discussed how district energy can help deliver the sustainable energy we need for a better tomorrow.



The DHC+ Student Awards winners Dominik Franjo Dominković (Technical University of Denmark), Loïc Giraud (Université Grenoble Alpes) and Andrei David (Aalborg University) contributed to this discussion. Their presentations are available on the Student Awards webpage, while the full articles are published in the International EuroHeat&Power Magazine.

Applications for the Student Awards 2017 are open! More information on [studentawards.dhcplus.eu](http://studentawards.dhcplus.eu)



## *DHC+ Summer School 2016: a successful event!*



Participants of the 4<sup>th</sup> DHC+ Summer School at Warsaw University of Technology

For over four years the DHC+ Summer School has brought together outstanding students and professionals from around the world to spend an intensive academic and networking week in a beautiful European city. This year's edition in Warsaw gathered 24 participants from 12 European countries in a thrilling week where they

could combine theoretical knowledge on district heating and cooling with guided visits to a CHP plant, district heating dispatch centre, pumping station, district heating chamber and Heat-Tech Center.

The 2016 Summer School was a great success and the initial feedback has been excellent! This is in large part due to the hospitality and active involvement of the hosting entities (Veolia Energia Warszawa, PGNiG TERMIKA and Warsaw University of Technology), to the support of this year's sponsor - Rockwool Technical Insulation, and to a very high degree of motivation of this year's participants.

The DHC+ Technology Platform and its Education & Training Working Group members are looking forward to the next edition of the Summer School and would appreciate all support and participation!

More information on the Warsaw experience is published on [summerschool.dhcplus.eu](http://summerschool.dhcplus.eu)

# Driving Research in Innovation



## Interview with Thomas Pauschinger, SDHp2m Project Coordinator



Picture: Thomas Pauschinger  
Interview: Inés Arias Iglesias

SDHp2m is a H2020 European Project that addresses the market uptake challenges for a wider use of district heating and cooling (DHC) systems with shares of renewable energy sources (RES). It focuses on the use of large-scale solar thermal plants combined with other RES in DHC systems. The project started in January 2016 and has a duration of 36 months.

The project involves 15 partners from 9 different European countries and engages 9 EU regions. In 3 focus regions, Styria (Austria), Thuringia (Germany) and Rhone-Alpes (France) the regulatory regional authorities are participating as project partners to ensure a strong implementation capacity of advanced policies and support solar district heating (SDH) measures within the project. In the remaining 6 regions, Varna (Bulgaria), Veneto and Valle d'Aosta (Italy), Västra Götaland (Sweden), Mazowsze (Poland) and Hamburg (Germany), the regulatory authorities are engaged through letters of commitment.

During the development of the project, all policies and support instruments will be available as blueprint for developing SDH in other European regions. Especially, Denmark and Sweden will be used as role models for this project as they have already reached a high share of RES in DHC.

**Mr. Pauschinger, the SDHp2m project has an important regional focus. Could you tell us why these specific regions have been chosen and if there is a plan to involve other regions in the future?**

In SDHp2m the p2m stands for 'policy to market' and we are really glad that we could win the regional energy authorities of Thuringia (DE), Styria (AT) and Auvergne Rhone-Alpes (FR) as active project partners. In these regions, the development of DHC based on renewables was already a key topic of energy policy before our project, which will be beneficial for supporting the practical market introduction of solar district heating. But we are also counting on our 'follower regions' in Bulgaria, Italy, Sweden, Poland, Germany and further European replicator regions which we will address during the project.

**Europe is really diverse in its climatic conditions. Can SDH be an option to all regions in Europe or are there regions more favourable to the solution?**

SDH can be an option in all regions where district energy systems are common for supplying heat and cold. Large-scale solar thermal plants are nowadays realised up to a capacity of 100 MW and simply became a mature and cost competitive heat generation technology. High solar radiation levels as in southern countries are for sure an

advantage, but the cases of Denmark and Sweden show that low district heating network temperatures and good financing schemes can easily compensate for less favourable climatic conditions.

**Despite being a local matter, SDH seems to share the same market challenges across Europe. What are the priority challenges to be addressed and how does SDHp2m intend to overcome them?**

First of all, there is a strong need to strengthen the role of RES heat technologies in the DHC sector which, nowadays, is still driven by business cases linked to the electricity market and fossil CHP. Also, on regional and local level we still face obstacles, such as land availability for large solar collector fields, permission procedures or access to financing. In addition, we see the need to address, inform and support market actors. The SDHp2m project gives us a good opportunity to share know-how and lessons learned among the partner regions and to make this know-how also available to further replicators.

More information:  
[solar-district-heating.eu/SDHrelatedprojects/AboutSDHp2m](http://solar-district-heating.eu/SDHrelatedprojects/AboutSDHp2m)

Project Coordinator:  
Thomas Pauschinger  
Steinbeis Research Institute Solites  
[pauschinger@solites.de](mailto:pauschinger@solites.de)  
[www.solites.de](http://www.solites.de)

The SDHp2m project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691624



# Communication & Exchange

## DHC+ joined EUFORES

Since May 2016, DHC+ is a member of EUFORES. EUFORES is the European cross-party network of Members of the European Parliament as well as from the EU28 national and regional Parliaments promoting the use of renewable energy and supporting energy efficiency.

Besides the parliamentary membership, EUFORES is supported by a variety of non-parliamentary members from the renewable energy sector, scientific institutes, energy agencies and NGOs. While shaping discussions on renewables, they highlight the need for and capabilities of innovative heating and cooling. By being member of EUFORES, DHC+ places itself in the core of this innovative development. Being part of this network also allows DHC+ to communicate on integrated research needs and provide input on a number of relevant policy developments.

DHC+ is looking forward to working with the numerous actors in this network and being part of the broad discussion on the future of our energy system.

More information on [www.eufores.org](http://www.eufores.org)

## New DHC+ consortium building opportunities

Along with the second edition of the **DHC+ Brokerage Event** organised on 12 October 2016 in Brussels, DHC+ has extended its offer of consortium building tools.

**DHC+ Portal** is one of them and it is available to the wider heating and cooling community, allowing a more important cross-sectorial collaboration on a project proposal. The Portal is conceived as an **incubator for project ideas**: you can shortly describe your idea, concept or draft proposal, indicate the kind of partners or expertise you are looking for – and be contacted by the organisations interested in joining your consortium. You can browse through the existing project ideas and consider joining them. You can also use the DHC+ Portal as a **highly interactive professional platform**: describe the added value you can bring to a successful project proposal and search for the experts in a particular field.

DHC+ / Euroheat & Power members benefit from a privileged-level access: they can login with their website login details, see all entries in the database and be regularly updated on the newly published project ideas and expert profiles.

Discover the DHC+ Portal at [www.euroheat.org/dhc/dhc-portal](http://www.euroheat.org/dhc/dhc-portal)



### PROPOSE A PROJECT

Describe your project idea, concept or draft proposal, indicate the kind of partners or expertise you are looking for – and be contacted by the organisations interested in joining your consortium

> Propose a Project



### SEARCH FOR PROJECTS

Look through the existing project ideas published on the DHC+ Portal and contact the author for further information and cooperation opportunities. Please respect ownership of the ideas!

> Search for Projects



### OFFER YOUR EXPERTISE

Describe your expertise, your experience in EU funded projects or the added value you can bring to a successful project proposal. Get invited by other partners to join project consortia.

> Offer your Expertise



### SEARCH FOR PARTNERS

Search for the experts in a particular field, country or type of organisation – and contact them to establish further collaboration. Find the right partner for a successful project proposal!

> Search for Partners



## Become a DHC+ member!

Set up under the umbrella of Euroheat & Power, the DHC+ Technology Platform is today a strong group of stakeholders from academia, research, business and industry. Join the network and be part of the transition to an efficient, smart and sustainable energy future!

Contact [dhcplus@euroheat.org](mailto:dhcplus@euroheat.org) for more information.

## Stay connected on social media!

Follow DHC+ on Twitter [@DHCPlus](https://twitter.com/DHCPlus)

Visit DHC+ Facebook page [www.facebook.com/DHCPlus](https://www.facebook.com/DHCPlus)

Discover DHC+ photo stories on Flickr

[www.flickr.com/photos/dhcplus](https://www.flickr.com/photos/dhcplus)

## UPCOMING EVENTS

### DHC+ Steering Committee Meeting

Would your organisation like to host one of the DHC+ Steering Committee meetings and introduce DHC+ members to the district heating system of your country?

Please contact the Secretariat at [dhcplus@euroheat.org](mailto:dhcplus@euroheat.org) for further details.

### The 2017 competition has been launched!



The ceremony to be held in Glasgow during the Euroheat & Power Congress!

Register now for the 38<sup>th</sup> Euroheat & Power Congress! 15-16 May 2017, Glasgow, UK



Exclusive opportunity for DHC+ members!  
DHC+ Research & Technology Pavilion:  
[www.ehpcongress.org/exhibition](http://www.ehpcongress.org/exhibition)

Applications are open!



Join us end of October  
2017 in Qatar!