

Upgrade your community to  
District Heating!  
Become a #DHCitizen

**Report on the image  
campaign for modern DH  
networks**

up  
grade  DH

Authors: Aksana Krasatsenka, Euroheat & Power, Belgium

Reviewers: Dominik Rutz, WIP, Germany  
Evaldas Čepulis, LDHA, Lithuania  
Sebastian Grimm, AGFW, Germany

Contact: Euroheat & Power  
Aksana Krasatsenka  
ak@euroheat.org  
Tel: +32 (0)2 740 21 10  
Cours Saint Michel 30a Box E  
B-1040 Brussels, Belgium  
www.euroheat.org

Dissemination Level: Public

Website: Upgrade DH project website: [www.upgrade-dh.eu](http://www.upgrade-dh.eu)

Cover: Screenshot of the campaign webpage [www.dhccitizen.eu](http://www.dhccitizen.eu)

Project relation: WP6, Task 6.5, Deliverable 6.5

Disclaimer: This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 785014. The sole responsibility for the content of this report lies with the authors. It does not necessarily reflect the opinion of the European Union nor of the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the CINEA nor the European Commission are responsible for any use that may be made of the information contained therein.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 785014.

**Project Consortium and National Contact Points:**

**WIP Renewable Energies**, project coordinator, Germany  
 Dominik Rutz [Dominik.Rutz@wip-munich.de]  
[www.wip-munich.de](http://www.wip-munich.de)



**Steinbeis Research Institute for Solar and Sustainable Thermal Energy Systems**, Germany  
 Michael Kübler [Kuebler@solites.de]  
[www.solites.de](http://www.solites.de)



**Lithuanian District Heating Association**  
 (Lietuvos Šilumos Tiekėjų Asociacija), Lithuania  
 Evaldas Čepulis [evaldas@lsta.lt]  
[www.lsta.lt](http://www.lsta.lt)



**Salcininku Šilumos Tinklai**, Lithuania  
 Elena Pumputienė [elena.pumputiene@sstinklai.lt]  
[www.sstinklai.lt](http://www.sstinklai.lt)



**JP Elektroprivreda BiH d.d.-Sarajevo**, Bosnia-Herzegovina  
 Anes Kazagic [a.kazagic@epbih.ba]  
[www.epbih.ba](http://www.epbih.ba)



**AGFW Projektgesellschaft für Rationalisierung, Information und Standardisierung mbH**, Germany  
 Sebastian Grimm [s.grimm@agfw.de]  
[www.agfw.de](http://www.agfw.de)



**University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture**, Croatia  
 Tomislav Pukšec [tomislav.puksec@fsb.hr]  
[www.fsb.unizg.hr](http://www.fsb.unizg.hr)



**COWI A/S**, Denmark  
 Reto Michael Hummelshøj [rmh@cowi.com]  
[www.cowi.com](http://www.cowi.com)



**OPTIT Srl**, Italy  
 Matteo Pozzi [matteo.pozzi@optit.net]  
[www.optit.net](http://www.optit.net)



**Gruppo Hera**, Italy  
 Simone Rossi [simone.rossi@gruppohera.it]  
[www.gruppohera.it](http://www.gruppohera.it)



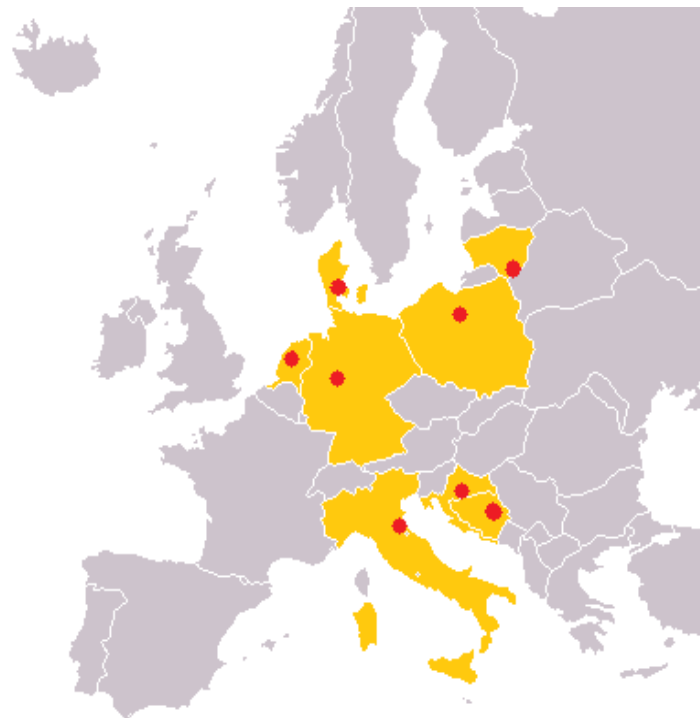
**Euroheat & Power – EHP**, Belgium  
 Aksana Krasatsenka [ak@euroheat.org]  
[www.euroheat.org](http://www.euroheat.org)

## **Content**

<b>1</b>	<b>Introduction .....</b>	<b>4</b>
<b>2</b>	<b>Strategy.....</b>	<b>5</b>
<b>3</b>	<b>Webpage .....</b>	<b>6</b>
<b>4</b>	<b>Brochure .....</b>	<b>9</b>
<b>5</b>	<b>Video .....</b>	<b>11</b>
<b>6</b>	<b>Social media campaign.....</b>	<b>12</b>
<b>7</b>	<b>Photo contest .....</b>	<b>13</b>
<b>8</b>	<b>Face masks.....</b>	<b>13</b>
<b>9</b>	<b>Local stories .....</b>	<b>15</b>
<b>10</b>	<b>Multiplier events.....</b>	<b>15</b>
<b>11</b>	<b>Conclusion.....</b>	<b>17</b>
	<b>Annex 1 .....</b>	<b>18</b>
	<b>Annex 2 .....</b>	<b>26</b>

# 1 Introduction

The overall objective of the Upgrade DH project, funded by the EU's Horizon2020 programme, was to improve the performance of inefficient district heating networks in Europe by supporting selected demonstration cases for upgrading, which can be replicated in Europe. The Upgrade DH project supported the upgrading and retrofitting process of DH systems in different climate regions of Europe, covering various countries. The target countries of the Upgrade DH project are: Bosnia-Herzegovina, Denmark, Croatia, Germany, Italy, Lithuania, Poland, and The Netherlands. In each of the target countries, the upgrading process is initiated at concrete DH systems of the so-called Upgrade DH demonstration cases (demo cases) (Figure 1). The gained knowledge and experiences were further replicated to other European countries and DH systems in order to leverage the impact.



**Figure 1: Upgrade DH target countries and demo cases**

The Upgrade DH project launched, implemented and tested the upgrading process up to the implementation phase (investment stage). As lighthouse projects, the demo cases were used to stimulate replication. The initiation of new projects in the target countries and accompanying activities at national level contributed to implement energy efficiency and renewable energy policies, regulations and legislations in the target countries.

The Upgrade DH project involved stakeholders in charge of city networks, heat suppliers, DH companies, managers of buildings blocks, housing associations and other building owners/managers and end consumers. Core activities of the Upgrade DH project included the collection of the best upgrading measures, the support of the upgrading process for selected DH networks, the organisation of capacity building measures about DH upgrading, financing and business models, as well as the development of national and regional action plans. In addition, an image raising campaign for modern DH networks was carried out in the Upgrade DH project.

The present report summarises all activities conducted in the framework of the image raising campaign, describes promotional materials (i.e., brochure, video, webpage) and impact achieved.

## 2 Strategy

DH systems account for a relatively minor share of the energy used nowadays for heating purposes in the EU. Over the years different technologies, such as individual heating systems (house boilers) or cheap coal-fired plants, have played a large role in the industry, challenging the capacity of DH operators to provide the flexibility and adaptability requested by market conditions. While some Nordic countries (e.g., Denmark or Sweden) are champions of the technology, other countries are surely not gaining the full benefits of modern DH as one of the key transition technologies in the path towards decarbonisation.

Public opinion towards heat networks can be considered as one of the greater challenges. Many do not know what a heat network is or even have a negative attitude. Consumers are worried about the monopoly character of district heating companies, a lack of consumer choice, the costs and sources of heat.

Therefore, the specific goals of the image raising campaign were to **improve the perception of district heating at local level, thus establishing district heating as a viable solution for the energy transition, in the minds of citizens.**

To achieve these goals a number of objectives have been defined:

- **Creating awareness** of the modern DH solutions in countries with bad experiences with district heating in the past; and raising interest in DH in countries/areas where this technology is unknown or “unnoticed”.
- **Fostering engagement** – to create a public acceptance; to show people the positive impact the DH solution has on the overall performances of the district / community, so the collective impact; and trigger pro-active actions by citizens (bottom-up approach).
- **Accelerating the upgrading processes** – to facilitate implementation of DH upgrading process in the target countries and beyond.

The image raising campaign took place during the second half of the UpgradeDH project with the following phases:

1. Phase 1: Development of the strategy
  - Identify enthusiastic community members who could function well if engaged as local “ambassadors”.
  - Identify industry partners and in what capacity they are able to assist.
  - Highlight channels through which effective communication can take place.
  - Determine appropriate messages adapted to audience types.
  - Specify materials required for effective communication.
  - Set programme of measures and timeline.
  - Implement monitoring and evaluation so that actions can be measured and improved over time.
2. Phase 2: Design and concept of promotional materials/tools
  - Brand identity – identify colours and design logo to relay the campaign objectives
  - Tagline – to engage and respond (e.g.: Become a DHCitizen!)
  - Success stories – ensure that content enforces positive perception of district heating
  - Assignment of activity dependant on countries, resources and expertise
3. Phase 3: Implementation of the campaign
4. Phase 4: Evaluation and reporting

The target group of this image raising campaign was the public (i.e., end users or heat consumers) in the demo-case areas and the replication areas.

### 3 Webpage

The webpage [www.dhcitizen.eu](http://www.dhcitizen.eu) was conceived as the reference platform where all promotional materials / tools and dynamic, shareable content would be published. Taking into account searchability, design and different way of presenting the information, it was decided to create a stand-alone campaign site, rather than an additional page within the Upgrade DH project website or EHP website.

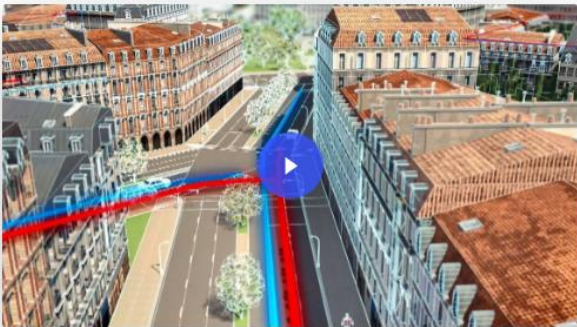
The campaign webpage has the following areas and objectives:

- provides information on DHC, as well as its role in decarbonising our cities;

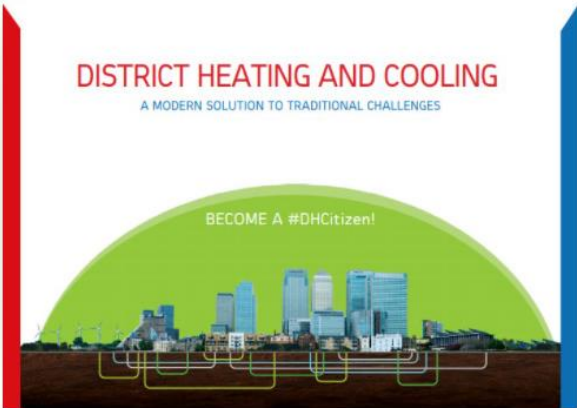
District energy is a modern solution to traditional challenges.

In Europe, heating and cooling accounts for half of all energy consumption and around 40% of GHG emissions. Only 15% of this heat is generated from renewable energy.


District energy delivers sustainable heating and cooling, connecting local resources to local needs, reducing both energy demand and GHG emissions in the process. To become the chosen heating solution across Europe, district heating needs investment from national governments and support from local citizens.




What is District Heating?



---



How does it work for cities?






Figure 2: Screenshot of the header, video, brochure about DHC and city testimonials

- highlights examples of decarbonisation success stories through an integrated #DHCities map;



**Figure 3: Screenshot of the integrated #DHCities map**

- gathers DHC customer experiences and information about relevant initiatives in different countries;

What's happening in your country?



**Figure 4: Screenshot of the country-specific section**

- provides opportunity for feedback and participation, integrates Twitter feed.



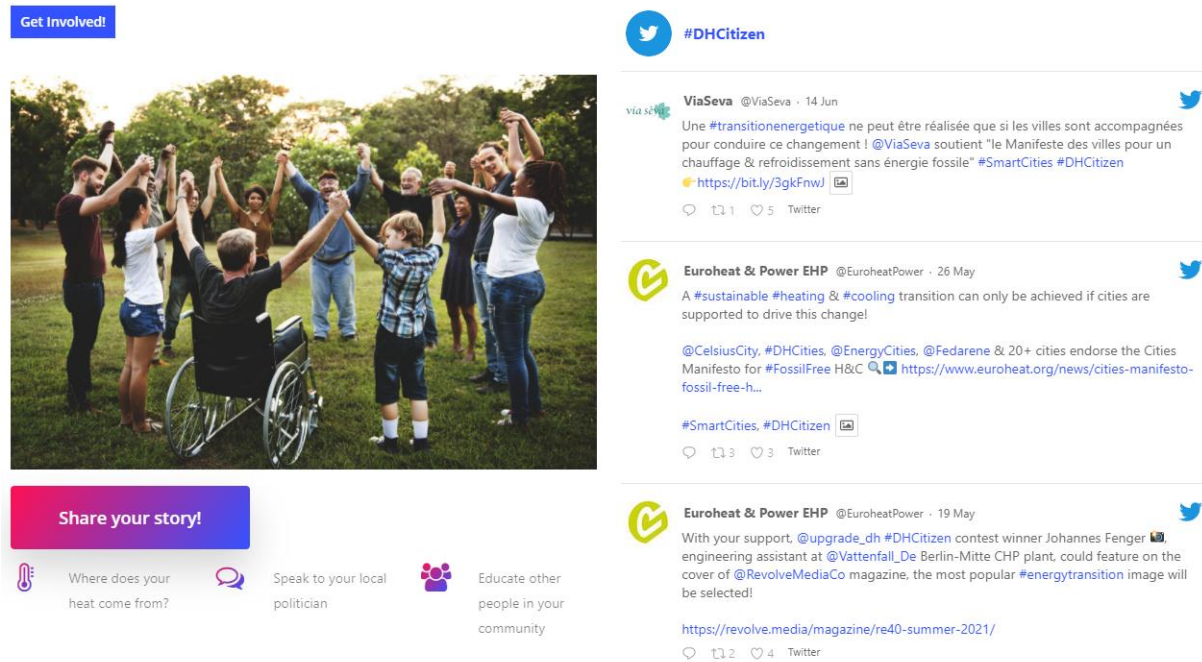


Figure 5: Screenshot of the feedback section and Twitter feed

The audience overview of the webpage was tracked on regular basis (Figure 6). In total, the campaign webpage triggered **1,675 engagements**.

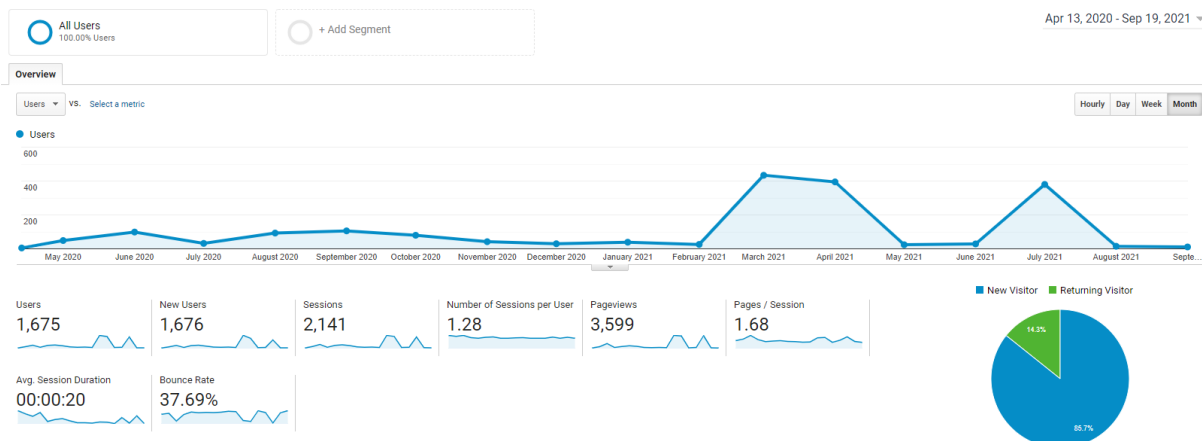


Figure 6: Audience overview of the campaign webpage (last update 20.09.2021)

Additionally, German partner AGFW launched an informative new website: <https://fernwaerme-info.com> where citizens can learn about DHC technology, benefits, costs and discover nice videos in German (Figure 7).

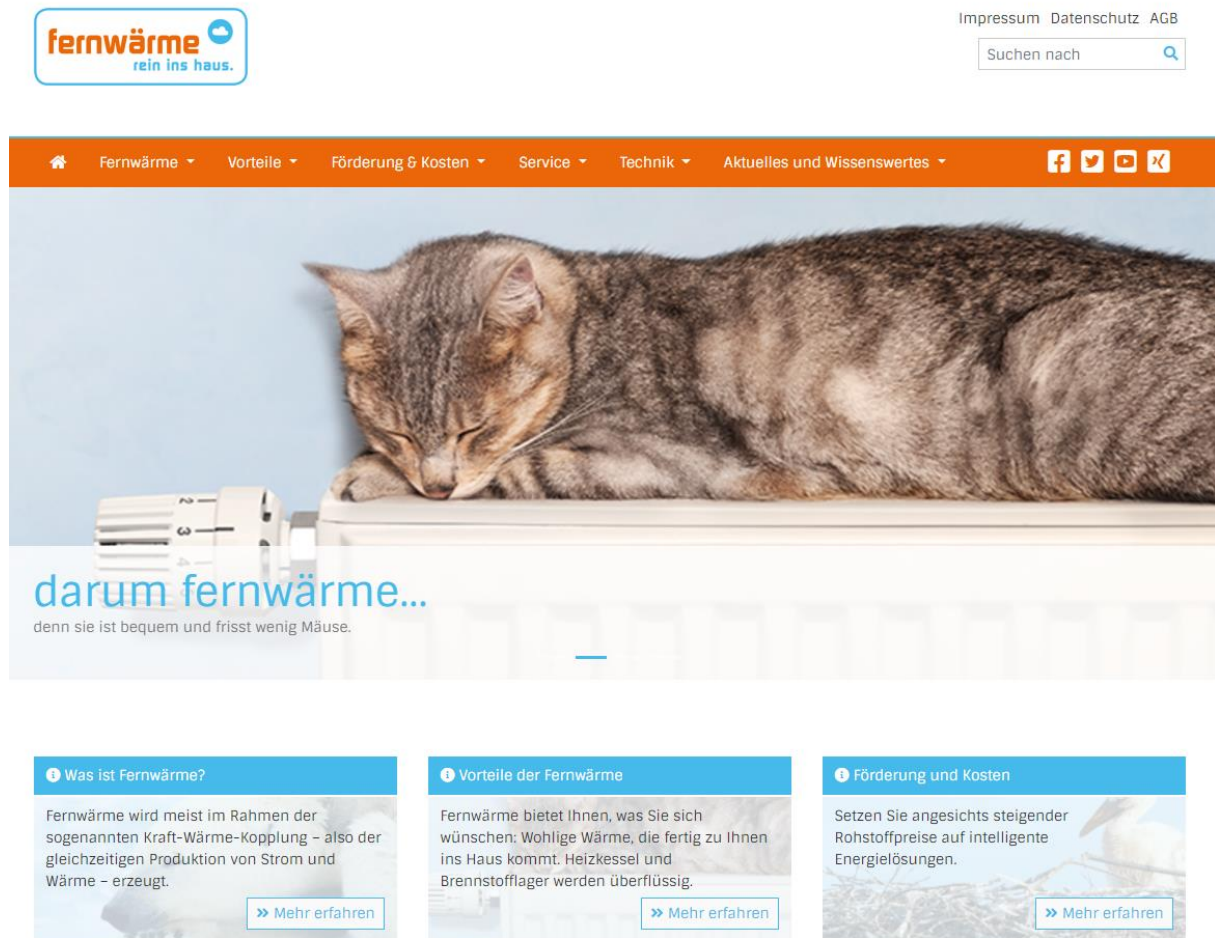


Figure 7: Screenshot of the German information website

Since its launch, the website has been visited by **2,183 users** (Figure 8) and made an important contribution to the EU-wide image raising campaign.

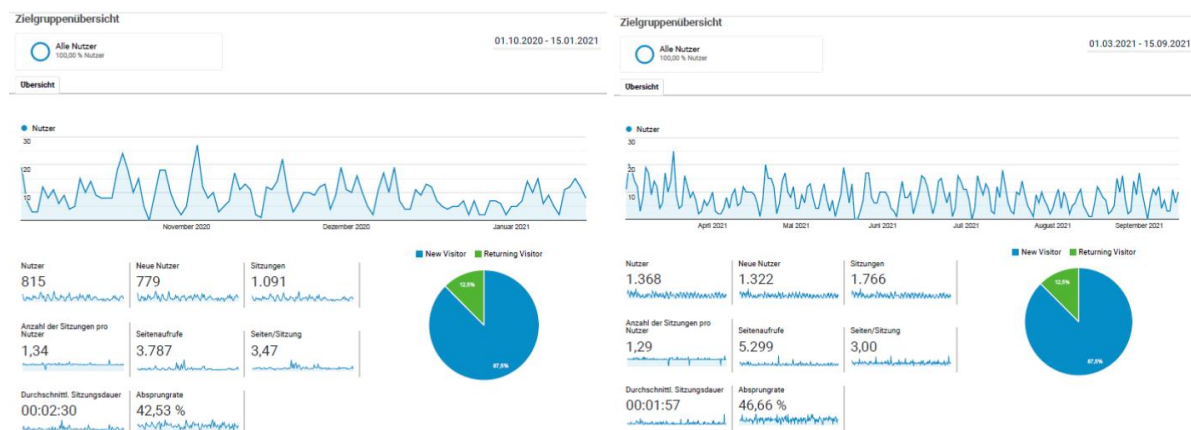


Figure 8: Audience overview of the German information website (last update 15.09.2021)

## 4 Brochure

A brochure was planned as a publication of max 8 pages explaining key aspects of modern district heating, including an iconic DH image (Figure 9) presented as an infographic that can also be distributed via social media.



Figure 9: Iconic DH image developed in the framework of the campaign

The brochure “District Heating and Cooling. A modern solution to traditional challenges” (Figure 10) explains in simplified language, the benefits district energy delivers at all levels (i.e. local, national and global), its operating principles, and opportunities for modernisation of inefficient networks. It features selected Upgrade DH case studies that are undergoing retrofitting processes and invites citizens to engage with the heating solutions in their own homes. The brochure is available on [www.dhcitizen.eu](http://www.dhcitizen.eu) and [www.upgradedh.eu](http://www.upgradedh.eu) and has been downloaded **nearly 1,000 times** since its publication.

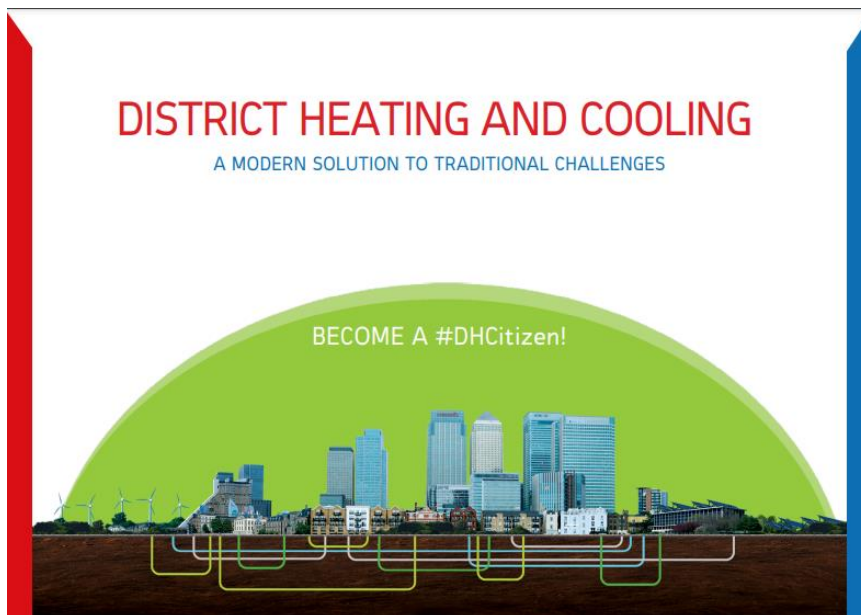


Figure 10: Cover page of the brochure

The brochure was made available in 6 other languages: Bosnian, Croatian, German, Italian, Lithuanian and Polish at <https://www.upgrade-dh.eu/en/news-events/09-07-2021-check-the-brochure-district-heating-and-cooling-a-modern-solution-to-traditional-challenges/>.

The Croatian version of the brochure was printed and distributed at national events (**100 copies**).

For the German brochure, AGFW involved the national project group “Marketing and sales” of the department “Politics & Energy Economics” of the German DH Association. Representatives of national utilities welcomed a German-language version of the brochure, which should be further disseminated to complement national examples. In this way, other utilities and end customers can better relate with the contents. To this end, the project group contributed with case studies that were included in the brochure as supplementary content (Figure 11).

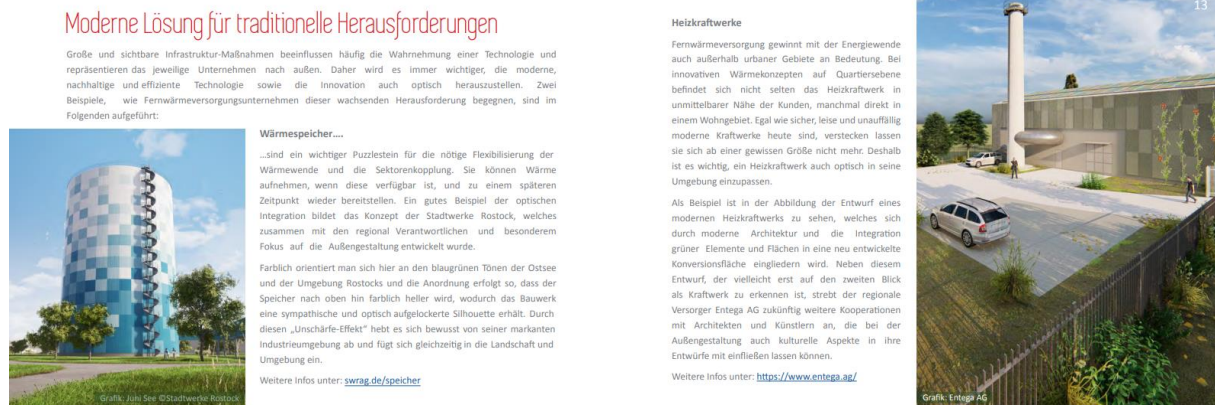


Figure 11: Additional pages of the German brochure

## 5 Video

To strengthen the role and visually present the importance of decarbonising activities within the DHC domain, animated videos on “Decarbonising DHC for our cities” have been translated into several demo case languages and promoted across Europe.

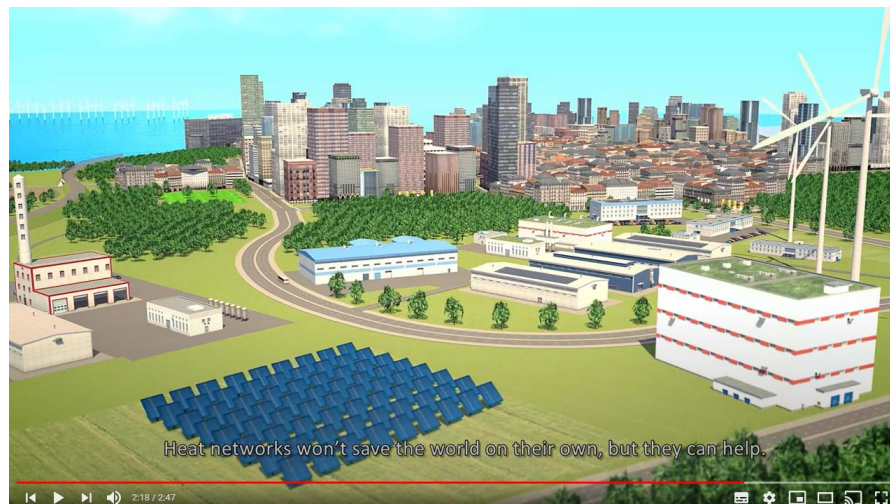


Figure 12: Screenshot of the video

The English version was embedded in the campaign webpage, local translations have been published on EHP, AGFW and LDHA YouTube channels and demonstrated during local knowledge sharing workshops, resulting in **more than 5,800 views**. Local translations can be viewed [here](#).

Additionally, 4 video testimonial from cities represented in Upgrade DH were produced and included in the interactive #DHCities map, gathering **over 700 views**.

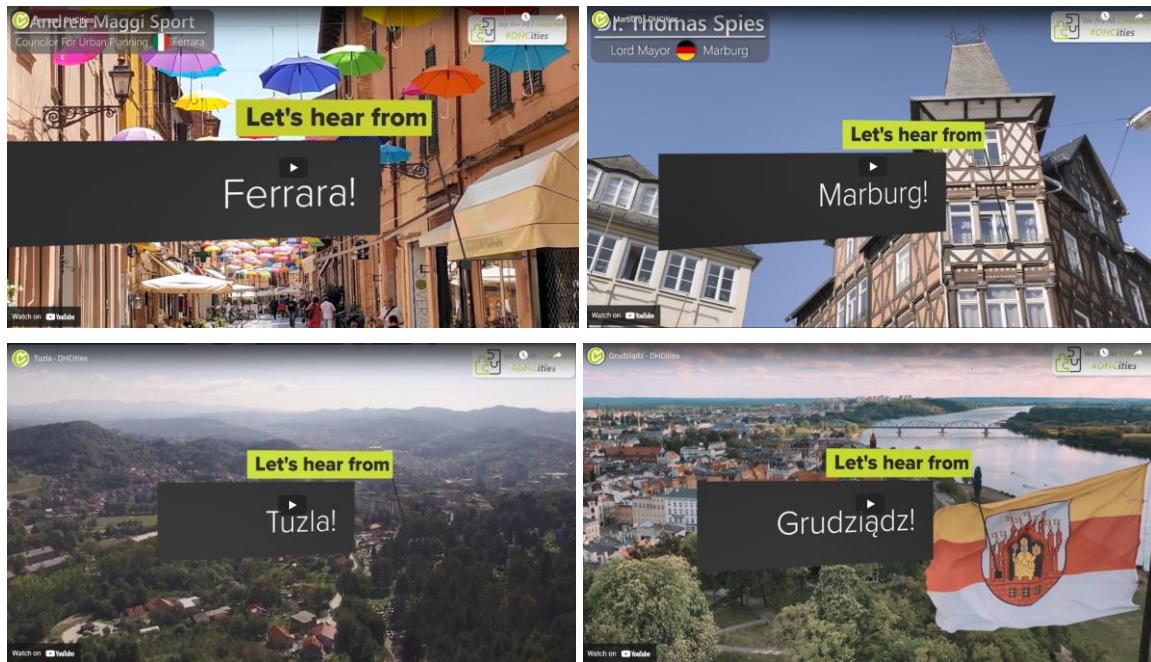


Figure 13: Screenshots of the city testimonials

## 6 Social media campaign

A social media campaign “Become a #DHCitizen!” was carried out in order to create awareness and raise interest in the topic of modern district heating networks among the general public, showcasing best practices of retrofitting and success stories of upgrading local communities to district energy. Every Wednesday, from June 2020 until May 2021, EHP published a post on Twitter and LinkedIn with a hashtag #DHCitizen, which then was shared by the Upgrade DH project on Twitter, LinkedIn and Facebook. The list of posts can be found in Annex 1. The list of most influential Twitter accounts that supported the campaign can be found in the table below:

Table 1: Relevant Twitter accounts and followers (15.09.2021)

Organisation / Project	Twitter handle	Followers
AGFW e. V.	@agfw_ev	1079
BayFOR Unit Environment, Energy & Bioeconomy	@BayFOR_UEB	1026
BuildUP	@EU_BUILDUP	<b>7508</b>
D2Grids project	@D2Grids	232
DHC+	@DHCPlus	2311
Euroheat & Power	@EuroheatPower	<b>5265</b>
HR_EnerTrans	@HRenertrans	305
Life Opere project	@LifeOpere	208
OPTIT	@optitsrl_en	246
ReUseHeat project	@ReUseHeat	741
Upgrade DH project	@upgrade_dh	152
Vattenfall Deutschland	@Vattenfall_De	<b>7950</b>
Vattenfall EU	@VattenfallBXL	2004
ViaSeva	@ViaSeva	616
WIP Renewable Energies	@WIPRenewables	836

The main contributors to the outreach on LinkedIn are listed below:

**Table 2: Relevant LinkedIn accounts and followers (15.09.2021)**

Organisation / Group	LinkedIn link	Connections
<b>Association of Hungarian District Heating Entreprises</b>	<a href="https://www.linkedin.com/company/mat%C3%A1szsz/">https://www.linkedin.com/company/mat%C3%A1szsz/</a>	45
<b>Energie &amp; Management Verlagsgesellschaft mbH</b>	<a href="https://www.linkedin.com/company/energie-management/">https://www.linkedin.com/company/energie-management/</a>	1,808
<b>Euroheat &amp; Power</b>	<a href="https://www.linkedin.com/company/euroheatpower">https://www.linkedin.com/company/euroheatpower</a>	<b>2,373</b>
<b>HET - Hrvatska energetska tranzicija</b>	<a href="https://www.linkedin.com/in/het-hrvatska-energetska-tranzicija-44a058186/">https://www.linkedin.com/in/het-hrvatska-energetska-tranzicija-44a058186/</a>	500+
<b>Lietuvos šilumos tiekėjų asociacija</b>	<a href="https://www.linkedin.com/company/lietuvos-silumos-tiekeju-asociacija/">https://www.linkedin.com/company/lietuvos-silumos-tiekeju-asociacija/</a>	209
<b>OPTIT S.r.l.</b>	<a href="https://www.linkedin.com/company/optit-s.r.l./">https://www.linkedin.com/company/optit-s.r.l./</a>	641
<b>Upgrading district heating in Europe</b>	<a href="https://www.linkedin.com/groups/8682986/">https://www.linkedin.com/groups/8682986/</a>	85

Finally, on Facebook, posts were published in the Upgrade DH group (**69 members**) and on the Croatian Energy Transition page HET - Hrvatska energetska tranzicija (**888 followers**), with other project partners sharing the posts in national languages.

## 7 Photo contest

To promote the people involved in DHC and the faces behind, the Upgrade DH project launched a photo contest "Meet the ones who keep you warm!". Multiplier organisations in our project partners networks were invited to send a photo of an employee on-site, who is proud of doing his/her job. EHP shared this on social media (Twitter, LinkedIn, Facebook) with the hashtag #DHCitizen. The person, who received the most likes – Johannes Fenger, an engineering assistant at the Vattenfall Berlin-Mitte CHP plant – was invited to the virtual Euroheat & Power Congress "Forward Together" which took place in May 2021 and was featured on various communication channels.



Figure 14: Images received for the photo contest

## 8 Face masks

As a result of the Covid-19 pandemic, some activities, such as “Meet the customer” events (open days at local utilities, a stand at a local fair, info session at school), initially planned in the strategy, were cancelled. Instead, face masks #DHCitizen were produced and used on different occasions to promote district heating and cooling:

- **30 masks** printed for the participants (students and young professionals) of the 8<sup>th</sup> International DHC+ Summer School, which took place from 23 to 29 August 2020 online



Figure 15: Participants of the DHC+ Summer School 2020

- **220 masks** printed in Croatia. The masks were disseminated at multiple events, including university courses held by UNIZAG FSB professors (disseminated to students and professors), national dissemination events of Upgrade DH (including the meetings with the management of Osijek DH, Vukovar DH, Karlovac DH, expert workshop in Croatia and the dissemination event in Vukovar - Toplinarstvo 2021). All the masks have been given out and disseminated to the relevant stakeholders and general public.



Figure 16: #DHCitizen masks at various dissemination events in Croatia

- **50 masks** printed for the participants and lecturers of the 9<sup>th</sup> International DHC+ Summer School which took place from 22 to 28 August 2021 in Karlshamn (Sweden)



Figure 17: Use of #DHCitizen masks at the DHC+ Summer School 2021

## 9 Local stories

Professional journalists were involved in order to write compelling stories about energy transition in Upgrade DH countries and/or demo cases which could be sent out through the PR tools to European media.

This collaboration proved to be successful for the Lithuanian District Heating Association. An article “Energy transition: Lithuania sets records in speed and scope” has been picked up and published by Solarserver (in German), Holz-Zentralblatt (in German), Trade Arabia, [www.sustmeme.com](http://www.sustmeme.com), [www.aina.lt](http://www.aina.lt) and English version of the EuroHeat&Power Magazine. Proofs can be found in Annex 2.

An article “Tuzla stands for Transition” written in collaboration with Elektroprivreda (Bosnia and Herzegovina) has been finalised and will be disseminated through European media in the coming months.

## 10 Multiplier events

It is worth mentioning some important events that were organised with the support of Upgrade DH or contributed to the image raising campaign at local level.

- The Event “The Future of District Heating in Italy”, 2 October 2020, organised digitally by AIRU, Utilitalia and the Upgrade DH project consortium. The Digital Event was an opportunity to present to a wide audience the Study made by the Polytechnic of Milan and Turin regarding the potential of District Heating in Italy and the Upgrade DH project, with a walkthrough of best practices for upgrading District Heating networks around Europe. The Digital Event final purpose showed to national governmental institutions representatives, to industrial sector and to common citizens the importance of District Heating in Italy for the central role it can play in the transition towards a more sustainable Italian energy system. **More than 400 people** attended the Digital Event. The recording of the Digital Event had **more than 245 views**.



## L'immagine pubblica del TLR



---

- Creare un'immagine iconica del Teleriscaldamento moderno
- Video in Inglese, Italiano, Lituano, Croato, Tedesco, ....
- Brochure divulgativa
- Social media campaign #DHCitizen
- City testimonials
- Webpage [www.dhccitizen.eu](http://www.dhccitizen.eu)
- ...






**Figure 18: Image raising campaign presented at the Digital Event "The Future of District Heating in Italy"**

- The 40<sup>th</sup> Euroheat & Power Congress "Forward Together!", 3-5 May 2021, online from Vilnius (Lithuania). The EHP congress is the most important event in the DHC calendar and is attended by **over 350 individuals**. The focus on Lithuania as the host of 2021 made a significant impact on the promotion of DHC in the country. These were numerous sessions focusing on Lithuania, with stakeholders from across the country in attendance including the DHC, energy, buildings and defence sectors. A special session 'Enthusiastic Fans - Engaged Citizens as Key to Success' featured best ways to engage district heating consumers: direct marketing, DH promoting mobile app and heat cooperatives.



Figure 19: Remigijus ŠIMAŠIUS | Mayor of Vilnius at the Euroheat & Power Congress

## 11 Conclusion

The campaign was very successful as **more than 50,000 citizens** were reached.

This significant impact was achieved due to:

- A clear definition of roles and responsibilities: EHP defined the strategy, collected relevant input, developed promotional materials (i.e., brochure, webpage, videos, online map, social media campaign), coordinated the campaign and monitored the impact. Other partners defined key messages suitable for their market, created video testimonials with local authorities, co-wrote local stories featuring best practice examples, translated promotional materials and supported social media campaign.
- Involvement of multiplier organisations (i.e., national DH associations, NGOs, local media)
- Active social media campaign, which helped create awareness and raise interest in the topic of modern district heating networks among general public, showcase best practices of retrofitting and local stories, as well as promote relevant events.

The Upgrade DH consortium hopes that this image raising campaign will have a snowball effect on the community, trigger pro-active actions by citizens and facilitate implementation of DH upgrading process in the target countries and beyond. The promotional materials (brochure, video) can be further translated and used in other countries in Europe. The interactive #DHCities map will be further maintained and enriched with other district heating success stories.





















# Annex 1

Date	Message	Tags
03/06/2020	<p>Do you know where your heat comes from? It's important!</p> <p>#Heating and #cooling accounts for 50% of all energy consumption and around 40% of GHG emissions!</p> <p>Follow our #DHCitizen campaign to discover how you can be a part of the #EnergyTransition 🌍🌱!</p>	<p>@UpgradeDH @H2020EE @WIPRenewables @optitsrl_en @agfw_ev @FSB_online @COWI @GruppoHera @EU_EASME @EU_H2020</p>
10/06/2020	<p>Discover the #DHCitizen campaign page!</p> <ul style="list-style-type: none"> <li>- Learn about district heating</li> <li>- Hear from different #DHCities around Europe</li> <li>- See what's happening with heating &amp; cooling in your country</li> <li>- Share your story!</li> </ul> <p>📄 - dhcitizen.eu</p>	<p>@H2020EE @EU_EASME @EU_H2020 @WIPRenewables @D2Grids @solarthermal @agfw_ev @energycities @HREnertrans</p>
17/06/2020	<p>Thanks to the efforts of @upgrade_dh partners and the #DHCitizens campaign, the "Decarbonising #DHC For Our Cities" animation video 🎥 is now available in six different languages!</p> <p>Check it out in GBLTITHRBADE!</p> <p>📺 <a href="https://www.youtube.com/playlist?list=PLjnDz22Jqhp3WkGRhZHQRzytNHTlvovAK">https://www.youtube.com/playlist?list=PLjnDz22Jqhp3WkGRhZHQRzytNHTlvovAK</a></p>	<p>@H2020EE @LithuaniaInEU @ItalyInEU @HREnertrans @eubih @GermanyInTheEU @agfw_ev @WIPRenewables @heatnet_nwe @energycities @EU_H2020</p>
24/06/2020	<p>#DistrictHeating is a modern solution to traditional challenges ❤️!</p> <p>But what does that mean? 😊 Read the brochure to learn about #districtenergy and discover how a #DHCitizen can be part of the #EnergyTransition!</p> <p>📄 <a href="https://dhcitizen.eu/wp-content/uploads/2020/05/brochure_EuroHeat_2020_1.5.pdf">https://dhcitizen.eu/wp-content/uploads/2020/05/brochure_EuroHeat_2020_1.5.pdf</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_EASME @EU_H2020 @KeepWarm_EU @optitsrl_en @heatnet_nwe @energycities @D2Grids</p>
01/07/2020	<p>HR It's time to become a #DHCitizen!</p> <p>The Zagreb earthquake in March destroyed most chimneys in the city centre. Instead of #investment aimed at returning to individual gas boilers, #districtheating should be introduced as a #sustainable solution!</p> <p>📄 - <a href="https://balkangreenenergynews.com/priorities-in-zagreb-city-centers-energy-transition-development-vision-after-2020-earthquake/">https://balkangreenenergynews.com/priorities-in-zagreb-city-centers-energy-transition-development-vision-after-2020-earthquake/</a></p>	<p>@upgrade_dh @WIPRenewables @FSB_online @RegeaAgency @BalkanGreEnNews @HREnertrans @sdewes_centre @H2020EE @KeepWarm_EU @energycities</p>
08/07/2020	<p>In Germany DE, results of a recent study show that private households would be willing to pay for #DHC from #renewables as their preferred option for #heating ❤️🍌</p> <p>📄 <a href="https://www.mdpi.com/2071-1050/12/10/4129">https://www.mdpi.com/2071-1050/12/10/4129</a></p>	<p>@upgrade_dh @WIPRenewables @agfw_ev @H2020EE @Energy4Europe @EU2020DE @en_germany @GermanyInTheEU @EU_EASME @EU_H2020</p>

15/07/2020	<p>Watch this great video about #DistrictHeating in Lithuania LT and young professional thermal engineers, who are always needed for our sector!</p> <p> - <a href="https://youtu.be/fCxlv8-TtNs">https://youtu.be/fCxlv8-TtNs</a></p> <p>Become a #DHCitizen and help to shape your country's green future  !</p>	<p>@upgrade_dh @WIPRenewables @VGTU_university @ktuspace @LithuaniaInEU @H2020EE @EU_EASME @EU_H2020 @FFFVilnius @SimasGR</p>
22/07/2020	<p>#DYK that a #DHCitizen can co-finance a #districtheating network?</p> <p>In France, the first #geothermal project open to participatory #investment is available!</p> <p>Read in FR here: <a href="https://www.lumo-france.com/projets/geothermie-de-la-marne#projet">https://www.lumo-france.com/projets/geothermie-de-la-marne#projet</a></p>	<p>@upgrade_dh @WIPRenewables @EU_H2020 @H2020EE @EU_EASME @construction21 @D2Grids @reseaux_chaleur @heatnet_nwe @EGEC_geothermal</p>
29/07/2020	<p>In Bosnia and Herzegovina BA, #districtheating systems are well known. Many municipalities have plans to build new systems &amp; upgrade existing ones to eliminate pollution &amp; improve cost-effectiveness.</p> <p> Explore some good practice examples at - <a href="https://www.coolheating.eu/en/2016-02-22-13-33-53.html">https://www.coolheating.eu/en/2016-02-22-13-33-53.html</a></p>	<p>@upgrade_DH @WIPRenewables @EU_H2020 @H2020EE @EU_EASME @2016CoolHeating @KeepWarm_eu @EBRDgreen @IEE_Banjaluca @energycities</p>
05/08/2020	<p>Children always speak the truth </p> <p>Where is the CO2 coming from? That coal power plant could be turned into an amusement park! - says Hugo Parry, a #DHCitizen of Helsinki, FI</p> <p>Watch this video: <a href="https://youtu.be/j9-mtBMRMWE">https://youtu.be/j9-mtBMRMWE</a></p>	<p>@upgrade_dh @WIPRenewables @EU_H2020 @H2020EE @EU_EASME @helsinki @HelsinkiSmart @myhelsinki @iDistrictEnergy @SET_Project_FI</p>
12/08/2020	<p>Are you a local authority project manager or #districtheating sponsor?</p> <p>Take the time to read this Stakeholder Engagement Guide produced in the UK:</p> <p> <a href="https://www.gov.uk/government/publications/stakeholder-engagement-in-heat-networks-a-guide-for-project-managers">https://www.gov.uk/government/publications/stakeholder-engagement-in-heat-networks-a-guide-for-project-managers</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @heatnet_nwe @thecarbontrust @beisgovuk @CAGConsultants @theADEuk @HeatTrustUK @BloombergNEF</p>
19/08/2020	<p>While enjoying our summer , let's not forget about the #districtenergy technicians who were working non-stop during the COVID-19 pandemic, ensuring essential service  .</p> <p> 'We are all #DistrictHeating Heroes!' - A video by MaTáSzSz HU: <a href="https://youtu.be/OwxUnO-t2Mw">https://youtu.be/OwxUnO-t2Mw</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @KeepWarm_EU @MaTaSzSz1</p>

26/08/2020	<p>Our community is growing 🌱!</p> <p>+25 participants of the #DHCSummerSchool20 received special face masks to promote #DistrictEnergy around the world 🌍❤️.</p> <p>Become a #DHCitizen 🗣️👤! Share your thoughts about this technology on social media 🐦👍📸.</p> <p>#EnergyTransition #Decarbonisation</p>	<p>@DHCPlus          @NetPortKhamn          @NodaAB          @HogskolanHst          @Danfoss          @upgrade_dh          @WIPRenewables          @H2020EE          @EU_H2020          @EU_EASME</p>
02/09/2020	<p>Check out this creative concept to engage people in #Göteborg se!</p> <p>The @goteborgenergi campaign #SustainableTogether features 70 sustainable actions incl. #renewables and #districtheating 🌱👉.</p> <p>📄🔗 <a href="https://www.goteborgenergi.se/hallbarahop">https://www.goteborgenergi.se/hallbarahop</a></p> <p>Become a #DHCitizen 🗣️👤, show your support!</p>	<p>@DHCPlus          @upgrade_dh          @WIPRenewables          @H2020EE          @EU_H2020          @EU_EASME          @energiforetagen          @celsiuscity          @HeatNetworksSE          @SmartCitySweden</p>
09/09/2020	<p>The #DHCitizen community is growing around the world, including Australia au👉!</p> <p>Andrea Vecchi, a PhD student at @unibirmingham &amp; participant in #DHCSummerSchool20, is currently researching in Melbourne. He's wearing his special face mask with pride &amp; promotes #districtheating 🌱❤️</p>	<p>@DHCPlus          @upgrade_dh          @WIPRenewables          @H2020EE          @EU_H2020          @EU_EASME          @unimelb          @BCES_UoB          @c40cities          @iDistrictEnergy</p>
16/09/2020	<p>London gb counts on #districtheating networks &amp; #wasteheat 🗣️ for decarbonisation 🌱👉!</p> <p>Watch this video about an inspiring example at the Bunhill Heat and Power Network: <a href="https://youtu.be/bOrEGpY2QHI">https://youtu.be/bOrEGpY2QHI</a></p> <p>Even the youngest #DHCitizen knows how it works!</p>	<p>@futureofldn          @MayorofLondon          @IslingtonBC          @CullinanStudio          @LSBU - can't tag in photo          @DHCPlus          @ReUseHeat          @upgrade_dh          @WIPRenewables          @H2020EE</p>
23/09/2020	<p>Curious about the future of #DistrictHeating in Italy?</p> <p>Join this digital event on 2 Oct to hear about the study by @polimi &amp; @PoliTOnews on the potential of #DHC in it and best practices for upgrading 📄 DH networks by @upgrade_dh!</p> <p>📄🔗 <a href="https://www.airu.it/il-futuro-del-teleriscaldamento-in-italia/">https://www.airu.it/il-futuro-del-teleriscaldamento-in-italia/</a></p> <p>#DHCitizen #green</p>	<p>@DHCPlus          @sole24ore          @UTILITALIA          @optitrl_en          @CD_ambiente          @CD_attProd          @amicidellaterra          @Altroconsumo          @H2020EE          @ItalyinEU</p>
30/09/2020	<p>If you are a #DHCitizen from HR LV SI RS or other CEE country, you might be interested to find out about the great potential of #renewables 🌱👉 for the existing #districtheating systems!</p> <p>Join this @KeepWarm_EU webinar on 8 October: <a href="https://keepwarmeurope.eu/events/?c=search&amp;uid=bmjlvuGY">https://keepwarmeurope.eu/events/?c=search&amp;uid=bmjlvuGY</a></p> <p>#upgrade #DHC</p>	<p>@DHCPlus          @WIPRenewables          @H2020EE          @upgrade_dh          @sdewes_centre          @FSB_online          @RegeaAgency          @HREnertrans          @KSSENA_VELENJE          @ZREA_Energy</p>

07/10/2020	<p>If you ask a #DHCitizen in DK or SE what they like about #DistrictHeating, the most common responses would likely be:</p> <ul style="list-style-type: none"> <li>-Democratic ownership</li> <li>-Transparency</li> <li>-Price</li> </ul> <p> This has been highlighted by recent research:  <a href="https://www.slideshare.net/AAUSustainableEnergy/how-to-enhance-trust-in-district-heating-solutions">https://www.slideshare.net/AAUSustainableEnergy/how-to-enhance-trust-in-district-heating-solutions</a></p>	<p>@aauenergyplan  @ENSYSTR  @upgrade_dh  @WIPRenewables  @H2020EE  @4DHresearch  @beuc  @RightToEnergy  @ieecp_org  @Energy4Europe</p>
14/10/2020	<p>Would you like to know more about #districtheating in #Germany 🤔🗨️? We've got the perfect resource 😊!</p> <p> @Agfw_ev have launched an informative new website: <a href="https://www.fernwaerme-info.com/">https://www.fernwaerme-info.com/</a></p> <p> Learn about technology, benefits, costs and discover nice videos in DE!</p>	<p>@rein_ins_haus  @upgrade_dh  @WIPRenewables  @H2020EE  @Energy4Europe  @EU2020DE  @en_germany  @GermanyInTheEU  @EU_EASME  @beuc</p>
21/10/2020	<p>Meet the ones who keep you warm! 😊</p> <p>We have launched a photo competition 📷 highlighting the people &amp; jobs involved in #districtheating and the faces behind.</p> <p>We will share photos with the hashtag #DHCitizen and reward the winner with the most likes ❤️</p> <p> <a href="https://www.cvent.com/d/g7qfgd">https://www.cvent.com/d/g7qfgd</a></p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @Energy4Europe  @EU_H2020  @EU_BUILDUP  @Fedarene  @EU_ManagEnergy  @EUClimateAction  @beuc</p>
28/11/2020	<p>Nearly everything we do, from transport to heating to food production, releases GHGs &amp; contributes to aggravating #ClimateChange 🌍</p> <p>But each of us can do something about it!</p> <p>Take the Citizens #ClimatePledge &amp; address your climate footprint   <a href="https://unfccc.int/climate-action/climate-neutral-now/i-am-a-citizen">https://unfccc.int/climate-action/climate-neutral-now/i-am-a-citizen</a></p>	<p>@UNFCCC  @UNEP  @Greenpeace  @upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EUClimateAction  @Energy4Europe  @FoEint</p>
04/11/2020	<p>Meet Johannes Fenger 👤</p> <p>He's an engineering assistant at @Vattenfall_De &amp; doesn't leave Berlin cold during a crisis!</p> <p>His place of work, the CHP plant at Berlin-Mitte is one of the most modern in Europe 🙌</p> <p>Support this #DHCitizen with a ❤️ and take part:  <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p>	<p>@VattenfallGroup  @VattenfallBXL  @Vattenfall_De  @upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EU_EASME  @Agfw_ev  @EnergiewendeGER</p>
11/11/2020	<p>Meet Michal Nerheš 🙌.</p> <p>He's a boiler room operator for the #districtheating system in Medzilaborce, on the eastern border of Slovakia SK, where 97% of the heat is produced from #biomass.</p> <p>Are you also a proud #DHCitizen 🙌? Share your photo at   <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p>	<p>@bioenergyEU  @upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EU_EASME  @Energy4Europe  @SlovakiaBuildUp  @SLOVAKIAinEU  @KeepWarm_EU</p>

18/11/2020	<p>Meet Carlos Sánchez! es</p> <p>Together with his colleagues at @Univcordoba, he works on an innovative Renewable Air #Cooling Unit which can produce  air using diverse sources of #renewable heat  .</p> <p>Are you also a #DHCitizen? Share your story  here: <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p>	<p>@WedistrictH2020 @upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @ESEFICIENCIA @ACCIONA @ERenovables @DEcoenergias</p>
25/11/2020	<p>Meet Marián Malček, a #DHCitizen from Slovakia sk who works for Hriňovská energetická and keeps the town of Hriňová warm .</p> <p> Share a photo of yourself or a colleague &amp; help us to raise awareness of the important work happening in #districtheating!</p> <p>  <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Energy4Europe @SlovakiaBuildUp @SLOVAKIAinEU @KeepWarm_EU @SvkEnviroAgency</p>
02/12/2020	<p>Meet Lothar John  - A Construction Manager responsible for building the #districtheating pipe system in Berlin de!</p> <p> He's our latest entry in the #DHCitizen photo competition, show your support with a .</p> <p> Submit a photo of your own  <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p> <p>#Upgrade_DH</p>	<p>@VattenfallGroup @VattenfallBXL @Vattenfall_De @upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Agfw_ev @EnergiewendeGER</p>
09/12/2020	<p>Meet another #DHCitizen photo contest participant .</p> <p>Vasil Lučkanič is a #districtheating system operator in the town of Medzilaborce on the eastern border of Slovakia sk.</p> <p>Are you also proud of your job? Share your story   <a href="https://www.euroheat.org/news/meet-ones-keep-warm/">https://www.euroheat.org/news/meet-ones-keep-warm/</a></p> <p>#HeatTransition #LoveMyJob</p>	<p>@bioenergyEU @upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Energy4Europe @SlovakiaBuildUp @SLOVAKIAinEU @KeepWarm_EU</p>
16/12/2020	<p>We are delighted to welcome our first female #DHCitizen participant  .</p> <p>Meet Nika Chovančeková. She works for a heating plant in Banská Bystrica sk and manages the operation, maintenance &amp; staff with a smile.</p> <p>Who keeps you warm? Share their story  <a href="https://www.cvent.com/d/g7qfgd">https://www.cvent.com/d/g7qfgd</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Energy4Europe @SlovakiaBuildUp @SLOVAKIAinEU @KeepWarm_EU @Elektrarne</p>
06/01/2021	<p>The #DHCitizen photo contest continues in 2021 .</p> <p>Meet Max Peters from the Energy Agency of the State of Baden-Württemberg de.</p> <p>He used the #renovation of his brother-in-law's house to replace an old boiler with a #districtheating network .</p> <p>Take part!  <a href="https://www.cvent.com/d/g7qfgd">https://www.cvent.com/d/g7qfgd</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Agfw_ev @EnergiewendeGER @HeatRoadmapEU @Energy4Europe @RenovationWave @EU_BUILDUP</p>

13/01/2021	<p>Meet our #DHCitizen photo participants 📷👉, the ones who keep you warm  <a href="https://twitter.com/search?q=%23DHCitizen&amp;src=typed_query&amp;f=live">https://twitter.com/search?q=%23DHCitizen&amp;src=typed_query&amp;f=live</a></p> <p>Support your favourite with a ❤️ before the end of Feb! The prize for our most popular photo will include a ticket to #21EHPcong, our hybrid EHP Congress (<a href="https://www.ehpcongress.org/">https://www.ehpcongress.org/</a>)</p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EU_EASME  @HeatRoadmapEU  @Energy4Europe  @RenovationWave  @EU_BUILDUP  @EUclimateAction</p>
20/01/2021	<p>Meanwhile in Belgium BE.. @StadEeklo, citizen cooperative #Ecopower and @Veolia are developing a #districtheating network based on #wasteheat recovery 🌱.</p> <p>With this initiative, they are working together on a climate-neutral city ❤️👉  <a href="https://www.warmteneteeklo.be/">https://www.warmteneteeklo.be/</a></p> <p>#DHCitizen #DHCities</p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @Energy4Europe  @rescoopv  @interregeuropa  @NorthSeaRegion  @KhattabiZakia  @TinneVdS  @groen</p>
27/01/2021	<p>Reducing CO2 emissions is a significant challenge 📊🌱. Six cities from NW Europe IEGBBEFRNL have shared their efforts to address this issue with low carbon #districtheating 📺👉 <a href="https://youtu.be/DaFMx2yoklY">https://youtu.be/DaFMx2yoklY</a>.</p> <p>Be inspired by their stories &amp; find the support you need!</p> <p>#DHCitizen</p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @heatnet_nwe  @INTERREG_NWE  @CodemaDublin  @energycities  @MijnwaterBV  @D2Grids  @celsiuscity</p>
03/02/2021	<p>Meanwhile in the Netherlands NL: @Rotterdam is implementing #districtheating solutions through collaboration and stakeholder engagement 🗣️.</p> <p>🔍 For more information, watch this @CelsiusCity Talk (topic begins at 33:43) 📺👉 <a href="https://celsiuscity.eu/local-leaders-on-the-front-lines-of-the-heating-and-cooling-revolution/">https://celsiuscity.eu/local-leaders-on-the-front-lines-of-the-heating-and-cooling-revolution/</a></p> <p>#DHCitizen #SocialMarketing</p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EU_EASME  @Energy4Europe  @energycities  @sustain_cities  @EUROCITIES  @c40cities</p>
10/02/2021	<p>Meet Vojtech Lipták 👤👉 - A mechanical technician of thermal energy equipment in Plešivec SK, where Veolia Energia Slovensko provides #districtheating.</p> <p>He oversees the operation of a modern biomass boiler which keeps local households #warm 🏠❤️.</p> <p>#DHCitizen</p>	<p>@upgrade_dh  @WIPRenewables  @H2020EE  @EU_H2020  @EU_EASME  @Energy4Europe  @Veolia  @SlovakiaBuildUp  @SLOVAKIAinEU  @KeepWarm_EU</p>
17/02/2021	<p>A #DHCitizen 🗣️ recognises #wasteheat as an opportunity to obtain #greenenergy or increase #energyefficiency by reusing resources 🌱!</p> <p>🔍 Discover 5 energy sources for #districtheating you've never thought of 😊👉 <a href="https://www.emb3rs.eu/5-energy-sources-for-your-dhc-you-have-never-thought-of/">https://www.emb3rs.eu/5-energy-sources-for-your-dhc-you-have-never-thought-of/</a> via @Emb3rs_project, @upgrade_dh, @H2020EE</p>	<p>none</p>



24/02/2021	<p>Meet Tibor Mészáros 🧑‍🔧, operations &amp; dispatch shift leader for the #districtheating system in Bratislava sk! Together with his team, he's responsible for producing heat and hot water for more than 40,000 households 🏠.</p> <p>Support your favourite #DHCitizen 📷❤️ until the end of Feb!</p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Energy4Europe @Veolia @SlovakiaBuildUp @SLOVAKIAinEU @KeepWarm_EU</p>
03/03/2021	<p>Meet the #DHCitizen photo contest winner - Johannes Fenger, an engineering assistant at the @Vattenfall_De Berlin-Mitte CHP plant 🧑‍🔧🏆📷</p> <p>His photo attracted 78 ❤️/👍 across different social media platforms &amp; earns a ticket to the #districtenergy event of the year - #21EHPcong 🎟️</p>	<p>@VattenfallGroup @VattenfallBXL @Vattenfall_De @upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Agfw_ev @EnergiewendeGER</p>
10/03/2021	<p>How to make #districtheating consumers as engaged &amp; enthusiastic 🏆😄 as when they cheer for their national teams 😊?</p> <p>To find out, join our #21EHPcong session 'Enthusiastic Fans - Engaged #Citizens as Key to Success' on 5 May!</p> <p>📄🔗 <a href="https://www.ehpcongress.org/">https://www.ehpcongress.org/</a></p>	<p>#DHCitizen @upgrade_dh</p>
17/03/2021	<p>Helsinki 🇫🇮 launched the year-long global #HelsinkiEnergyChallenge 📄🧑‍🔧 in search of future-proof #heating solutions that are the best possible result for the climate 🌍❤️ &amp; local citizens 🧑‍🏠</p> <p>Discover the winners 🏆🔗 <a href="https://www.hel.fi/uutiset/en/kaupunginkanslia/helsinki-energy-challenge-results-announced-city-equipped-for-future-energy-decisions?pd=">https://www.hel.fi/uutiset/en/kaupunginkanslia/helsinki-energy-challenge-results-announced-city-equipped-for-future-energy-decisions?pd=</a></p>	<p>@helsinki @myhelsinki @HelsinkiEU @EnergiHelen @Energiateol @AEE_Intec @ENGIELabCRIGEN @ENGIegroup @Savosolar @Danfoss</p>
24/03/2021	<p>The city of Niš 🇷🇸 involves #citizens &amp; associations in their local #EnergyTransition 🧑‍🔧🧑‍🏠. They plan to enable the establishment of energy #cooperatives to build solar power plants ☀️</p> <p>#DHCitizen #SolarThermal #Geothermal @Upgrade_DH @BalkanGreEnNews</p> <p>📄🔗 <a href="https://balkangreenenergynews.com/nis-is-empowering-citizens-within-its-energy-transition">https://balkangreenenergynews.com/nis-is-empowering-citizens-within-its-energy-transition</a></p>	<p>@BalkanGreEnNews</p>
31/03/2021	<p>Did you know that #Upgrade_DH is supporting follower cities 📄🧑‍🔧? Næstved 🇩🇰 is one of them!</p> <p>Watch this video to discover why many local customers are choosing #districtheating and more than 90% are satisfied with their service 🧑‍🏠.</p> <p>📄🔗 <a href="https://youtu.be/jwdyd4RJuY0">https://youtu.be/jwdyd4RJuY0</a></p>	<p>@upgrade_dh @WIPRenewables @H2020EE @EU_H2020 @EU_EASME @Energy4Europe @DkFjernvarme @COWIdk @ECDtwit @R_ACES_EU</p>

07/04/2021	<p>Thanks to the efforts of @upgrade_dh partners, Tuzla Flag of Bosnia &amp; Herzegovina joins #DHCities in the campaign "We are all connected"!</p> <p>Hear about their plans to use #districtheating to realise #decarbonisation objectives Rightwards arrow<a href="https://dhcities.eu/?location=Tuzla">https://dhcities.eu/?location=Tuzla</a></p> <p>#DHCitizen @cleanenergy_eu @WIPRenewables @EBRDgreen</p>	
14/04/2021	<p>Understanding customers' perspective when developing low temperature #DHC networks is crucial!</p> <p>📄 Read more in the #REWARDHeat study 😊🔗 <a href="https://celsiuscity.eu/putting-end-users-first/">https://celsiuscity.eu/putting-end-users-first/</a></p> <p>➕ Join the #CelsiusTalk on Stakeholder Engagement tomorrow 🔗 <a href="https://celsiuscity.eu/events/stakeholder-engagement">https://celsiuscity.eu/events/stakeholder-engagement</a></p> <p>#DHCitizen #DistrictHeating</p>	<p>@upgrade_dh @WIPRenewables @celsiuscity @ReUseHeat @IVLSvenskaMiljo @EDF_Europe @cinea_eu @beuc @energycities @sustain_cities</p>
21/04/2021	<p>We're delighted to welcome #Grudziadz PL to the #DHCities network. They aim to improve air quality by 2025🔄 &amp; produce 100% of #heating from #renewableenergies by 2028.</p> <p>Learn more 📄🔗 <a href="https://www.dhccitizen.eu/?location=Grudziadz">https://www.dhccitizen.eu/?location=Grudziadz</a></p> <p>➕ Share your story &amp; become a #DHCitizen 🗣️🔗 <a href="https://www.dhccitizen.eu/">https://www.dhccitizen.eu/</a></p>	<p>@upgrade_dh @WIPRenewables @veolia @cinea_eu @PLPemRepEU @cleanenergy_eu @energycities @DhcRes @celsiuscity</p>
28/04/2021	<p>Does your government have a Plan? 🌍🗣️</p> <p>Check out these #Upgrade_DH recommendations (BADKHRDEITLPLNL) for the development and retrofitting of #DistrictHeating networks!</p> <p>📄🔗 <a href="https://www.upgrade-dh.eu/en/news-events/27-04-2021-press-release-upgradedh-recommendations-to-support-national-district-heating-cooling-action-plans/">https://www.upgrade-dh.eu/en/news-events/27-04-2021-press-release-upgradedh-recommendations-to-support-national-district-heating-cooling-action-plans/</a></p>	<p>@upgrade_dh @WIPRenewables @cinea_eu @cleanenergy_eu @Energy4Europe @EUClimateAction @EU_ManagEnergy @energycities @DhcRes @celsiuscity</p>
06/05/2021	<p>As a nice follow up from our #21EHPcong partners, here is an article on the #heat transition in Lithuania LT:</p> <p>🌲-<a href="https://www.euroheat.org/wp-content/uploads/2021/05/210426_Lithuanian-DH_fin.pdf">https://www.euroheat.org/wp-content/uploads/2021/05/210426_Lithuanian-DH_fin.pdf</a> (English)</p> <p>☀️-<a href="https://www.solarserver.de/2021/05/05/litauens-waermewende-weltrekord-bei-der-umstellung-von-gas-zu-erneuerbaren-energiequellen/">https://www.solarserver.de/2021/05/05/litauens-waermewende-weltrekord-bei-der-umstellung-von-gas-zu-erneuerbaren-energiequellen/</a> (German)</p> <p>#DHCitizen #EnergyTransition #Renewables @Solarserver @upgrade_dh @WIPRenewables @Comms_Works</p>	
12/05/2021	<p>How did the city of Šabac RS reduce the environmental impact &amp; the price of #heating for citizens 📄😊?</p> <p>This inspiring project by @UNDPSerbia &amp; @theGEF has the answer 🔍🔗 <a href="https://www.rs.undp.org/content/serbia/en/home/presscenter/articles/2021/grejanje-u-sapcu.html">https://www.rs.undp.org/content/serbia/en/home/presscenter/articles/2021/grejanje-u-sapcu.html</a></p> <p>#DistrictHeating #DHCitizen #Digitalisation #RESinDHC @Upgrade_DH @WIPRenewables</p>	
19/05/2021	<p>With your support, @upgrade_dh #DHCitizen contest winner Johannes Fenger 📷, engineering assistant at @Vattenfall_De Berlin-Mitte CHP plant, could feature on the cover of @RevolveMediaCo magazine, the most popular #energytransition image will be selected!</p> <p><a href="https://revolve.media/magazine/re40-summer-2021/">https://revolve.media/magazine/re40-summer-2021/</a></p>	

## Annex 2



Das Internetportal für erneuerbare Energien

STROM WÄRME MOBILITÄT THEMEN ▾

Branchenverzeichnis ▾ Service ▾ Solarthemen ▾ Kontakt ▾

### Litauens Wärmewende: Weltrekord bei der Umstellung von Gas zu erneuerbaren Energiequellen

05.05.2021 / [Solarserver](#) / [Bioenergie](#) / [Energiekommune](#) / [Fernwärme](#) / [International](#) / [Solarthermie](#) / [Wärmepumpe](#) / [Wirtschaft](#)



Foto: struivictory - stock.adobe.com

Der Anteil der erneuerbaren Energien in der litauischen Fernwärme ist in nur drei Jahre auf fast 70 % angewachsen.

**Das Beispiel Litauen zeigt, wie Wärmewende geht: Die Fernwärme wird schon heute zu 70 Prozent aus erneuerbaren Energiequellen gespeist. Bisher vor allem mit überschüssigem Holz aus der Holzindustrie. In Zukunft sollen Sonnenenergie und Wärmepumpen hinzukommen.**

Solarthemen-Login

Suchen...

Anzeige

**Hochleistungs-Solarthermie im Großformat.**  
Für kommunale Wärmenetze.

Wir beraten Sie gerne:  
[Info@ritter-xl-solar.de](mailto:Info@ritter-xl-solar.de)  
Weitere Infos unter:  
[www.ritter-xl-solar.de](http://www.ritter-xl-solar.de)

**Solarserver Stellenmarkt**

- AQWISO GmbH  
**Projektleiter\*in Solarenergie**  
Deutschland (m/w/d) in München
- SOLARWATT GmbH  
**Strategischer Einkäufer (m/w/d)** in Dresden
- solargrün GmbH  
**Senior Projektentwickler\*in**

# Wärmenetze als Basis für erfolgreiche Wärmewende

## Litauen feiert »Weltrekord bei der Umstellung von Gas zu erneuerbaren Energiequellen«

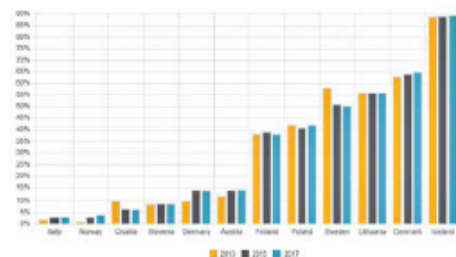
Durch einen massiven Umbau bei der Versorgung vorhandener Wärmenetze wurde in Litauen allein zwischen 2011 und 2017 der Anteil regenerativer Quellen bei der Fern- und Nahwärmeversorgung von 23% auf 66% gesteigert. Aufgrund einer mehr als 80-jährigen Tradition werden 55% der litauischen Haushalte über Nah- bzw. Fernwärmenetze mit Wärme versorgt. Nachdem die Umstellung auf Holz große Fortschritte gemacht hat, geht man nun den nächsten Schritt bei den Netzen, u.a. mit der Kombination verschiedener Quellen. Litauen war Gastgeber des „21. Internationalen Fernwärme Kongresses“ vom 3. bis 5. Mai.

Knapp 350 Teilnehmer aus 35 Ländern registrierten die Veranstalter des ersten digital abgehaltenen Internationalen Fernwärme Kongresses. Paul Voss, Geschäftsführer Euroheat and Power, freute sich nach dem Kongress: „Natürlich waren wir unser erstes inoffizielles Kongress zielführend gepasst. Aber wir haben uns auf den enormen Zusammenhalt der Fernwärme-Community verlassen. Natürlich hätten wir uns gerne physisch getroffen, aber der Appetit auf Austausch und Verbindung ist stark genug, um jeder Pandemie zu trotzen. Als zusätzlicher Bonus hat uns das vir-

tuell schrittweise, als Litauen 1990 seine Unabhängigkeit von der Sowjetunion wiederlangte und 2004 der Europäischen Union beitrat, musste sich das Land auch von seiner Energieabhängigkeit lösen. Die Sowjetunion hatte Litauen nicht nur das monumentale Atomkraftwerk Ignalina vom gleichen Typ wie der havarierte Reaktor in Tschernobyl (RBMK 1000) hinterlassen – wie die meisten osteuropäischen Länder wurde auch Litauen hochentwickeltes Fernwärmenetz fast ausschließlich mit russischem Erdgas oder schwerem Heizöl beheizt. „Im Jahr 2013 produzierten wir noch den größten Teil unserer Fernwärme mit aus Russland importiertem Erdgas“, erklärt der Direktor des litauischen Energieinstituts, Dr. Sigitas Rimkevičius. „Seitdem haben wir in unserem Tempo und in großer Umfang von Gas zu erneuerbaren Energiequellen umgestellt.“ Tatsächlich war der Anteil der erneuerbaren Energien nur drei Jahre später auf fast 70% angewachsen, was ihn zu einem der höchsten Anteile erneuerbarer Energien in Europa macht. Wir nennen das »Weltrekord«, ergänzt Rimkevičius.

Während das Konzept der Fernwärme in einigen westeuropäischen Ländern wie Großbritannien mit einem bescheidenen Anteil von 2% kaum bekannt ist, haben buchstäblich alle litauischen Städte ein Wärmenetz. „Mehr als die Hälfte der litauischen Haushalte sind an Fernwärme angeschlossen“, erklärt Rimkevičius. „Und die Zahlen steigen sogar noch an.“ Litauen hat die Unterstützung aus den EU-Strukturfonds genutzt, um den Gehalt an Holz zu erhöhen und auf heimische Energieressourcen umzustellen. „Die litauischen Wälder sind nicht nur groß“, sagt Dr. Valdas Lukoševičius, Präsident des litauischen Fernwärmeverbands. „Sie gehören auch zu den am besten für die Holzproduktion geeigneten der Welt. Überschüssige Biomasse aus der Holzindustrie nutzen zu können, ist also nicht nur günstiger und klimafreundlich, sondern auch ein Akt der nationalen Befreiung!“

Energie bezahlbar zu halten, ist eine der wichtigsten Herausforderungen für die Energiewende weltweit. Litauen hat sich als Vorbild erwiesen, da die Preise seit 2011 sogar gesunken sind – vor allem dank der lokalen Biomasse und des technischen Fortschritts. Tatsächlich entspricht der durchschnittliche Preis für lokale Biomasse, die für Fernwärme genutzt wird, etwa einem Drittel des Erdgaspreises. Doch trotz dieser großen Erfolge ist die schnelle Transformation des li-



Anteil der Fernwärme an der Wärmeversorgung der Bevölkerung: Der hohe Fernwärmeanteil in Litauen wird dabei zu einem großen Teil aus Biomasse gedeckt.

taischen Fernwärmenetzes noch lange nicht abgeschlossen. „Wir sehen neue Herausforderungen auf uns zukommen, da Biomasse zunehmend auf ihre tatsächlichen Klimawirkungen hin untersucht wird. Und obwohl die in unseren Netzen verwendete Biomasse ein nachhaltig gewonnenes Nebenprodukt der Holzindustrie ist, entsteht durch den globalen Wettbewerb ein immer größerer Druck, so dass sie zu einem knapperen Rohstoff wird“, sagt Lukoševičius. Deshalb beschäftigt sich das Land bereits mit der nächsten Phase der Umstellung. In den kommenden Monaten werden effizientere KWK-Anlagen, die Wärme- und Stromerzeugung kombinieren, an Netz gehen und einfache Biomassekessel ersetzen. Lukoševičius fügt hinzu: „Und, was noch wichtiger ist, wir erforschen bereits Lösungen jenseits von Biomasse.“

Litauische Winter sind kalt. Daher wird die Deckung des hohen Wärmebedarfs mit anderen erneuerbaren Energiequellen als Holz nicht ausreichen. Lukoševičius: „Aber die Nutzung von Solarenergie anstelle von Biomasse für die Warmwassererzeugung in den Sommermonaten ist eine erste Möglichkeit, die wir jetzt prüfen. Bisher allerdings keine eindeutige Umstellung. Eine wichtige Voraussetzung für den schrittweisen Einsatz von Sonnenenergie ist die Senkung der Betriebstemperatur im Netz auf 60 °C. Das wiederum erfordert eine Reduzierung der Wärmeverluste sowohl im Gebäudebestand als auch im Netz.“

### Beispiel Šalčininkai

Mit seinen fast 7000 Einwohnern ist Šalčininkai eine kleine Stadt in einem kleinen Land. Sie ist auch eine der jüngsten Städte Litauens, die 1972 als Zentrum des umliegenden Bezirks gegründet wurde. Nicht nur der großflächige Grundriss von Šalčininkai mit dem weitläufigen und genau berechneten Raster zeigt sein sowjetisches Erbe. Schulen und Wohnhäuser, eine neue Gärtnerei, ein Kino und ein Gebäude der Stadtverwaltung zeigen die Details und kleinen Linien, die für die Architektur und den Städtebau der späten Sowjetunion exemplarisch sind. Doch das

mehr als 30 Jahre alte Fernwärmenetz in Šalčininkai bekommt auch alle Nachteile dieses Erbes zu spüren: nämlich erhebliche Wärmeverluste durch den schlecht isolierten Gebäudebestand und überdimensionierte Wärmenetze und -übertragungsanlagen. Lukoševičius: „In litauischen Gebäuden ist der Wärmeverbrauch doppelt so hoch wie in westeuropäischen Ländern.“

Šalčininkai wurde deshalb als Pilotvorhaben im Rahmen des Projekts „Upgrade DH“ ausgewählt, das vom Forschungs- und Innovationsprogramm „Horizon 2020“ der Europäischen Union gefördert wird. Sowohl das Fernwärmenetz als auch der litauische Fernwärmeverband sind Partner. Die Erkenntnisse und Lehren aus der Kleinstadt im Südosten Litauens sollen ganz Europa zugute kommen. In Šalčininkai ersetzen wir die alten sowjetischen Stahlrohre durch vorgedämmte Rohre mit deutlich besserer Isolierung. Teilweise werden wir sogar flexible vorgedämmte Kunststoffrohre verwenden, die trotz begrenzter Betriebstemperaturen aufgrund ihrer verbesserten Flexibilität im Inneren flexibler werden. Sies sind einfach zu installieren und reduzieren die Wärmeverluste auf ein Minimum“, sagt Artur Dausiulis, CEO des Fernwärmeunternehmens Šalčininkai. Ein Netzoptimierungsplan wird die Wärmeverluste weiter verringern – und Litauen näher an eine Zukunft bringen, in der Wärme durch noch intelligenteren erneuerbare Technologien erzeugt wird, einschließlich Solarthermie und Wärmepumpen.

### Solar und Wärmepumpen ergänzen Biomasse

In naher Zukunft wird die gesamte staatliche Unterstützung Litauens für Biomasse gestrichen. Neue Subventionen für intelligente Lösungen in Kombination mit Solar und Wärmepumpen sind in Vorbereitung. „Wir brauchen jede Unterstützung, die wir für die Transformation bekommen können“, sagt Dr. Valdas Lukoševičius. „Unsere Regierung in Vilnius ist bereit, aber die EU muss grünes Licht geben. Dann kann die Rekordjagd der litauischen Energiewende weitergehen.“

# Holzheizkraftwerk für Chemnitz wäre zu teuer

Der mehrheitlich in kommunaler Hand befindliche Chemnitzr Energieversorger E.ON Energie in Sachsen GmbH & Co. KG hat seine Pläne aufgegeben, ein neues Holzheizkraftwerk zu errichten. Gegen das Projekt gab es Widerstände aus der Bevölkerung, als gewichtiger Grund wurde nun jedoch genannt, dass Bau und Betrieb unter den aktuellen Bedingungen nicht wirtschaftlich seien.

Ein wichtiger Baustein für eine nachhaltige und zukunftssichere Wärmeversorgung in Chemnitz (047237) Howobenz sollte neben der Umfassung der Heizkraftwerke Chemnitz Nord und Alchemnitz auf Motorenheizkraftwerke für Erdgas, Biogas oder synthetisches Gas, der Neubau eines Holzheizkraftwerkes (HHKW) im Gewerbegebiet an der Mauerberger Straße in Siegershausen werden. Damit hätte sich der Anteil regenerativer Energie an der Chemnitzr Fernwärme auf über 10% erhöht. Das Werk sollte so zum Erreichen der Klimaziele der Stadt beitragen. Insbesondere dieser Umweltaspekt und der Standort der Anlage (Netzoptimierung, Auslastung in einem Gewerbegebiet, Nähe zu Fernwärmenetzen und Umspannwerk, optimale Logistik durch unmittelbaren Autobahnanschluss, Abstand zu Wohnbebauung und Schutzgebieten) waren in der Konzeptphase überzeugende Punkte für eine positive Umsetzungsentscheidung.

Leider habe sich jedoch gezeigt, so teilte der Versorger am 30. April mit, dass die eingegangenen Angebote für die Errichtungslösungen der Anlagen- und Bautechnik auch nach intensiven Verhandlungen noch weit über den geplanten Kosten und dem wirtschaftlichen Maximumbudget liegen. Aus diesem Grund habe E.ON die Entscheidung getroffen, das Heizkraftwerk bis auf Weiteres nicht zu bauen. Die Anlage war auf 15 MW<sub>th</sub> und 5 MW<sub>el</sub> ausgelegt (entsprechend 44 RMSchV) und sollte 115.000 MWh Wärme sowie 33.000 MWh Strom pro Jahr bereitstellen. Als Brennstoff waren naturbelassene Holzabfälle und Schreddermaterial aus Walded Holz sowie Holz aus Kurzumtriebsplantagen, Baum- und Strauchschutt sowie holzartige Pflanzenbestandteile, die im Rahmen der Landschaftspflege anfallen, vorgesehen. Als Beschaffungsstandort waren maximal 100 km geplant, höchstens 10% des Brennstoffes sollten aus Entfernungen bis 250 km bezogen werden.

„Wir sind nach wie vor davon überzeugt, dass es sich um eine gute und sinnvolle Technologie handelt“, erklärt Roland Wametz, Vorsitzender der E.ON-Geschäftsführung. Die hohen Kosten seien aber wirtschaftlich auch den Kunden gegenüber nicht darstellbar. Am Ziel, grüne Energie für Chemnitz bereit zu stellen und damit die Klimaziele der Stadt zu unterstützen, ändere sich jedoch nichts. „Eins hält in jedem Fall am Aufbau einer regenerativen Energieerzeugung am Standort Siegershausen fest und prüft im Rahmen des Gesamtprojektes alternative Möglichkeiten“, betont Wametz. Welche das sind, sei noch nicht abschließend geklärt.



Litauen verfügt über ausgedehnte Wälder. Bekannt ist die Eiche von Stelmze. Sie ist 23 m hoch und soll mehr als 1500 Jahre alt sein. Damit ist sie eine der ältesten Eichen in Europa. Foto und Grafik: Litauischer Fernwärmeverband



Minimize complexity.  
Optimize business.  
[www.hilalcomputers.com](http://www.hilalcomputers.com)




**ME 2021**  
**RO TIC**  
Conference & Showcase

**NEW PRODUCTS IMPROVING MACHINERY RELIABILITY & PERFORMANCE**

12<sup>th</sup> - 14<sup>th</sup>  
OCTOBER  
2021

**REGISTER NOW**

**Lithuania sets records in speed and scope of energy transition**

VILNIUS, June 8, 2021

While EU governments are still debating whether they need new pipelines or can get off the natural gas tap, Lithuania has been transforming its heat supply at record speed to be able to use domestic biomass. Leaving the era of its energy dependence on Russia behind, the country is upgrading its networks and eyeing new possibilities with solar and heat pumps.



Dr Sigitas Rimkevičius

Stelmuze is all about wood. This little village in the forests of northeastern Lithuania is known for its wooden chapel built without saws or iron nails. And for the famous Stelmuze oak - the oldest oak tree in Europe, 23 meters high, and more than 1,500 years old. Embracing its trunk requires no less than 9 people holding hands.

The old and vast Lithuanian forests are also the scene for one of Europe's fastest and most extensive energy transitions from fossil fuels to renewables. The story of this transition is a dramatic condensation of international politics, climate action, and technological progress.

When Lithuania regained its independency from Russia in 1990 and joined the European Union in 2004, it had to break free from its energy dependency. Being part of the Soviet Union, Lithuania not only hosted the Tjernobyl type nuclear power plant Ignalina. Like most Eastern European countries, Lithuania's highly developed district heating grid was fueled almost entirely with Russian natural gas or heavy oil. "In 2013, we still produced most of our district heat with natural gas imported from Russia," says Dr Sigitas Rimkevičius, Director of Lithuanian Energy Institute. "Since then, our energy transition from gas to renewable energy sources has set a world record both in speed and dimension." As a matter of fact, only three years later, the share of renewable energy had grown to almost 70%, which makes it one of the highest shares of renewable energy in Europe. "We call it a European record," adds Dr Rimkevičius.



**Calendar of Events**

[View all events](#)



# sustmeme<sup>α</sup>

THE WORD ON SUSTAINABILITY: ECONOMICS, ENVIRONMENT + SOCIAL EQUITY

Home About Channels Top 500s Magazine Events Diary Subscribe Contact Guest Blogs

## Lithuania to move beyond biomass in record energy transition

June 8, 2021

Lithuania is a country undergoing an energy transition at record speed, with ambitions now to move beyond biomass. So, while some EU governments are still debating whether they need new pipelines, or can turn off the natural gas tap, Lithuania has been transforming its heat supply: Firstly using domestic biomass to exit the era of energy dependence on Russia; now upgrading its networks and eyeing new possibilities in the form of solar and heat pumps.

For Lithuania, the transition story starts in places like Stelmuze – Stelmuze is all about wood. This little village in the forests of northeastern Lithuania is known for its wooden chapel built without saws or iron nails; and for the famous Stelmuze Oak. At 23m tall and over 1,500 years of age, the Stelmuze Oak is claimed to be the oldest such tree in Europe, with a trunk requiring no fewer than nine people holding hands to wrap it in a human embrace.

The old and vast Lithuanian forests are also the scene for one of Europe's fastest and most extensive energy transitions from fossil fuels to renewables.

The tale of this transition is made up of a dramatic mix of international politics, climate action, and technological progress.

### Fastest and vastest energy transition in Europe

When Lithuania declared its independence from Russia in 1990 and joined the European Union in 2004, it also had to break free from its energy dependency. Being part of the Soviet Union, Lithuania not only hosted the Tjernobył type nuclear power plant Ignalina, but also, like most Eastern European countries, Lithuania's highly developed district heating grid was fuelled almost entirely with Russian natural gas or heavy oil.

The transition has been remarkable, says Director of the [Lithuanian Energy Institute](#), Dr Sigitas Rimkevičius:



Stelmuze Oak, an English (*Pedunculata*) oak tree in Stelmuze village, Lithuania. It is the oldest oak in Lithuania and one of the oldest in Europe.

### SustMeme on Social Media



### Subscribe to free email Bulletin:


[Subscribe to SustMeme](#)

### All Posts by Category

- A. News (103)
- B. The Times & Sunday Times (70)
- C. Guest Blogs (21)
- D. SustMeme (Miscellaneous) (23)
- Topics: Biodiversity & Conservation (11)
- Topics: Built Environment (48)
- Topics: Circular Economy (46)
- Topics: Climate & Energy (80)
- Topics: CSR & Business (55)
- Topics: Fashion & Apparel (7)
- Topics: Food & Agriculture (10)
- Topics: Human Rights (12)
- Topics: Tech & Innovation (26)

### Latest News

PANEVĖŽYS ▾ AUKŠTAITIJA ▾ JAUNIMAS ▾ LIETUVA ▾ EUROPA ▾ KULTŪRA ▾ LAISVALAIKIS ▾ AINA TV ▾ FOTOGALERIJA ▾ Q




Aktualijos - NAUJAUSIOS ŽINIOS - Panevėžio naujienos - 2021-05-18

## Perėjimas prie tvarios energijos gamybos: Lietuva fiksuoja greičio ir masto rekordus

🕒 2021-05-18 🗨️ 0 📌 9 🕒 15 min read

16 Shares
f Share
🐦 Tweet
📌 Pin
✉ Email
↩ Share

Kol ES valdantieji vis dar diskutuoja, ar jiems reikia naujų vamzdynų, ar jie gali atitrūkti nuo gamtinių dujų čiaupo, Lietuva rekordiniu greičiu pertvarkė savo šilumos ūkį, kad galėtų naudoti vidaus biomasės išteklius ir palikti savo energetinės priklausomybės nuo Rusijos erą. Dabar šalyje modernizuojami CŠT tinklai ir atveriamos naujos galimybės saulės ir šilumos siurblių technologijų panaudojimui.



### Storyboarding for Filmmakers

Turn storyboards into animatics in a single click. Bring your film to life faster.

Boords

Open >