

[See online version](#)



EDITORIAL

On 16 May 2019, we published **the very first D2Grids press release** to present the launch of the European 5th generation district heating and cooling grid project!

5GDHC concept was first developed in Heerlen, the Netherlands, by Mijnwater Energy Ltd. D2Grids project, promoting this concept, has run for over 5 years (2018-2023), and demonstrated its faisability on five pilot sites located in Paris-Saclay (France), Bochum (Germany), Brunssum (Netherlands), Glasgow and Plymouth (UK). D2Grids project succeeded in demonstrating the technical and economic feasibility of 5GDHC networks in a variety of urban contexts. The project partners have worked closely with local stakeholders **to ensure the smooth implementation and successful adoption of this innovative technology.**

The D2Grids project proposed to define clearly of 5GDHC concept, based on 5 principles. To assess heating and cooling networks, D2Grids project has developed a set of **key performance indicators, known as KPIs**, which are useful for grids stakeholders to understand better their grids and various ways to improve these ones. This valuable data didn't only contribute to the **continuous improvement of existing grids**, but has also served as a model for other similar initiatives across Europe.

These 5 years have been a lab for innovations, exchanges, innovative ideas and fruitful collaborations. Thanks to a **demand-driven approach**, the D2Grids project has succeeded in redefining the standards for 5th generation district heating and cooling grids (5GDHC). This ambitious initiative has created the foundations for a sustainable energy transition for the partner cities.

Beyond the concrete achievements, D2Grids project has also played a key role in bringing together experts, decision-makers, industrials, academics, from the energy sector to exchange knowledge, share best practices and inspire new ideas. This synergy of ideas helped to **broaden the scope of the project.**

As D2Grids project enters its final phase, the successes achieved and the lessons learned will continue to guide the evolution of district heating and cooling grids, and **catalyse a more sustainable and efficient energy transition** for future generations.

Check out this bonus newsletter about the latest progress on the project! On the agenda:

- Feedback from the D2Grids closing day
- Developing solar energy in 5GDHC grids
- A serious game on 5GDHC to make learning fun!
- Two pilot sites rewarded at the Green Solutions Awards
- A webinar on the integration of solar electricity into 5GDHC grids
- All about the deployment of the 5GDHC grid in Brunssum!

Enjoy your reading!

The D2Grids team





A look back at the day dedicated to D2Grids project

On 19 April 2023, **the day was dedicated to 5th generation heating and cooling grids**, and more specifically to the lessons learned from the **six years of research and development carried out by D2Grids project** under the European Interreg NWE programme to develop low-temperature heating and cooling grids in urban districts.

[Read the article](#)



Two pilot sites rewarded at the Green Solutions Awards

Of the 219 candidates this year, 29 projects were in the running **on Construction21 international platform**.

Located in different parts of the world, these projects provide a good overview of the sustainable solutions being put in place in these countries. To top it all off, **two D2Grids pilot sites won a mention!**

Know more!

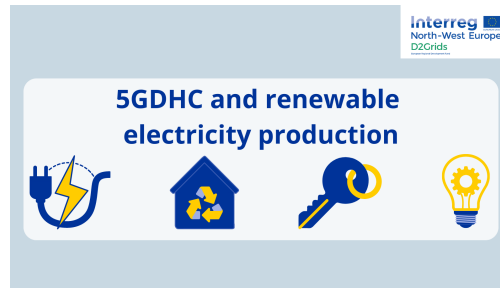


A new tool: the 5GDHC serious game!

You've been waiting for it: the material needed to play the **serious game on 5GDHC** is now available!

Discover this interactive role-playing game with a hypothetical scenario in which a district heating grid company organises a meeting with a view to **deploying a 5GDHC grid** in the city of Glasgow.

Let's play!



Introducing solar energy into 5GDHC

This guide teaches **how local and renewable electricity can be integrated into 5GDHC grids.**

Divided into four key points, it helps to understand the main energy challenges that the 5GDHC concept seeks to address, the solutions for **generating local and renewable electricity**, concrete examples of pilot projects, and the key role of renewable energy in 5GDHC projects.

[Find out about the guide](#)



Workshop in Glasgow: 5GDHC, solar integration, and grid engagement!

The event was **a great success**, with manufacturers, policy makers or supply chain companies, all learning about **the challenges of setting up a 5GDHC grid**, particularly in Glasgow.

[Read feedbacks and testimonials from hosts and attendees!](#)

[Know more](#)

Our upcoming event!



The graphic features a blue and yellow gradient background. In the top right corner, the logos for Interreg North-West Europe and D2Grids are displayed. A white speech bubble on the left contains the text 'On September 20th at 11am CET, online!'. Below this, a white rounded rectangle with a blue border contains an icon of a battery with a sun and a downward arrow, followed by the text 'Workshop: How solar electricity can be incorporated into 5GDHC grids?'.

Workshop: combining solar energy and DHC grids

On **20 September**, from **11am to 12.30pm (UTC+2)**, the 5GDHC Industrial Alliance is organising a webinar to **highlights the issues and benefits of solar energy integration into 5GDHC grids.**

See the agenda and register!

The expert's voice

THE INNOVATIVE AND ORIGINAL HEATING AND COOLING NETWORK IN BRUNSSUM, THE NETHERLANDS



INTERVIEW



Jibbe Bertholet
Thematic expert & Data analyst



Experience the deployment of the 5GDHC grid in Brunssum!

As part of D2Grids project, which has been promoting 5GDHC since 2018, we interviewed **Jibbe Bertholet, data analyst for Mijnwater Energy Ltd.**, about the deployment of 5th generation heating and cooling grids at the **Brunssum pilot site** in the Netherlands.

[Read the interview](#)

For questions or further information, please contact paul.capgras@construction21.fr

Twitter  LinkedIn

Cet email a été envoyé à immy.willekens@ou.nl, cliquez ici pour vous désabonner.