# **Newsletter #8**

October 2021



## Only one month left before the COP26 in Glasgow, where states, but also city representatives,

by 2050. Cities will of course be on the front-line, and the way we heat and cool our buildings is an important leverage to consider in order to decarbonize our urban environment. The D2Grids project team will be present for this international gathering to spread the word on 5th generation district heating and cooling, with a dedicated conference, followed by a serious

NGOs and engaged citizens will gather to discuss our commitments to reach carbon neutrality

game for decision makers. We invite you to join those events in Glasgow or online! The objective of these gatherings? Inspiring other cities, in Europe and above, to implement lowtemperature, circular thermal loops to heat and cool their buildings.

In this newsletter you will find news from Bochum, where drillings have started for our German pilot, key outcomes of our partners' sprint session to find the accurate KPIs on 5GDHC, and a

Enjoy your reading, D2Grids project team

new report on investment opportunities in the DHC sector!

#### on the road to 5th Generation! **D2GRIDS Project mid term event**

**D2GRIDS NEWS** 



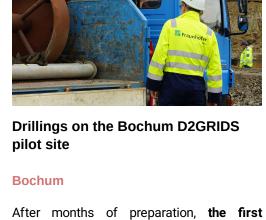
**District Heating and Cooling:** 

the first results in developing the concept and progress achieved on the pilot sites. The event will also be an occasion to share perspectives to roll-out 5GDHC grids across

European cities. A workshop for decision-makers interested in deploying a 5GDHC grid will be organised on the same day. The conference and the serious game will both be also accessible online!

Join us!

2021. The conference "District Heating and Cooling: on the road to 5th generation" will **showcase** 



energy source, we are creating the basis for a high ecological standard on the site" -Dietmar Spohn, CEO of Stadtwerke Bochum.

Bochum!

drillings have started this October in

With the planned use of the geothermal

This article details the progress that has

been made on this 5GDHC pilot site, and the

Read more

importance of the current drillings.

Defining 5GDHC: partners on the road to get shared KPIs. Stroomversnelling & EnergyVille / VITO The first objective of the D2GRIDS project was to clearly put forward a definition of what a 5GDHC grid is, which resulted in five

> goals for each of the principles. Finding the right KPIs was the aim of the

"sprint session" organised in Genk.

core principles. Beyond these principles, a

set of Key Performance Indicators (KPI's)

are required derived from the reasoning and

Read more

Case study: solar energy to feed a 5GDHC grid: how does it work?

GreenFlex

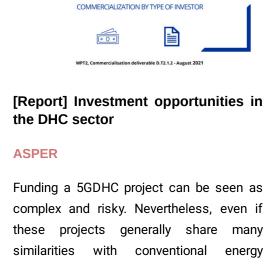


future building roofs of the housing company SEQENS (181 social housing units and a medical centre). Find out more about the challenges and the implementation of this ambitious project. Read the article

**Expert insights** 

#### REPORT ON INVESTMENT OPPORTUNITIES IN THE DHC SECTOR, INCLUDING A LIST OF CRITERIA NECESSARY FOR EFFECTIVE

Interreg North-West Europe D2Grids



infrastructure, they can attract more

specialised or non-conventional types of investors because of its sustainability,

innovative aspect, and the increased

This report will help you to target the best

financial investors to fund your project

depending on their own profile and your

between

local

interdependency

project characteristics.

stakeholders.

INVESTMENT OPPORTUNITIES REPORT:

Read the report **District heating and cooling in Europe** 

celsius

Advancing District Heating & Cooling

Solutions and Uptake in European Cities



process.

Read the article

Report: "Advancing District Heating & Cooling Solutions and Uptake in

Low-temperature district heating and

cooling is key to decarbonising European

this report, on the replication of district

Rated on a scale of 1 to 5 stars, it presents different projects, according to their replication possibilities in European cities, and details their advantages and technical

heating and cooling solutions.

**European Cities**"

**Celsius Initiative** 

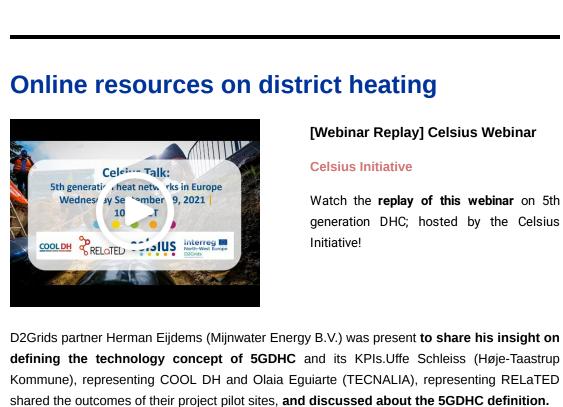
into the atmosphere. The BRGM is currently

studying the impact of temperature variations on the aquifer's geochemistry

and the microorganisms evolving in the

water in order to assess the viability of the

#### cities. In order to be rolled-out across Europe, it needs to be an alternative that can easily be implemented everywhere. That's why the Celsius Initiative focused, in



**Agenda** 

**Publication** 

• RES DHC

Read the report

[Webinar Replay] Celsius Webinar

generation DHC; hosted by the Celsius

**Celsius Initiative** Watch the replay of this webinar on 5th

Initiative!

system"

online!

uniqueness.

Watch the webinar

[25th october - 29th october 2021]

• Planned agenda of the week

D2GRIDS mid term event: "On the road

to 5th Generation" in Glasgow and

• Conference from 10:00am to

2:00pm to 3:30pm (CET)

• <u>Decision-makers serious game from</u>

Published in April 2021, this guide offers a

12:00pm (CET)

• Register here

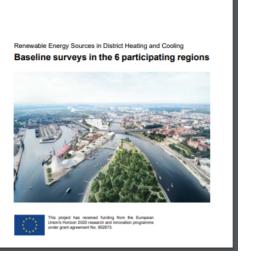
[10th November 2021]

EU Sustainable Energy Week. "Toward 2030 : reshaping the european energy

## [Report] Transformation of existing urban district heating and cooling systems from fossil to renewable

energy sources

**RES DHC** 

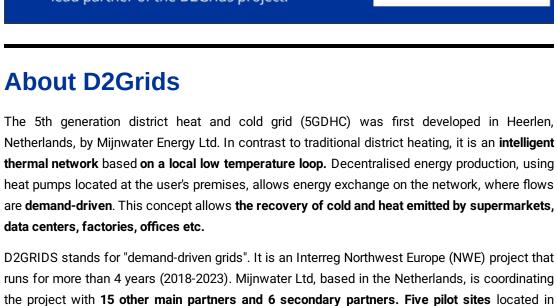


Project

With local low-grade sources, exchange of heating and cooling and a demand driven operation, 5GDHC is able to bring thermal

### urban buildings, avoiding overheating, power peaks, fine dust, noise and spatial restrictions in cities.

comfort to buildings.



# Paris-Saclay (France), Bochum (Germany), Brunssum (Netherlands), Glasgow and Nottingham

(UK) will develop 5GDHC networks. **Know more about 5GDHC on our website!** 

Join the District Heating and Cooling online community

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 $rectification\ aux\ informations\ qui\ vous\ concernent,\ que\ vous\ pouvez\ exercer\ en\ vous\ adressant\ \grave{a}\ info@construction21.org.$ 

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#### methodology to face all issues linked to the implementation of renewable energies in urban district heating and cooling systems (lack of knowledge / economical, legal,



technical and organisational barriers). Discover the solutions to succeed in decarbonizing the energy sector and make possible the dissemination of 5GDHC projects.

# 5GDHC is a resilient and integrated sustainable electric energy solution for





# Herman Eijdems Director of Innovation at Mijnwater Energy Ltd, lead partner of the D2Grids project.