



# CELTIC-NEXT

## Innovate UK Summer Briefing

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## **EMPORIUM**

**Blockchain carbon credits wallet**



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# Teaser



Buildings account for about 40% of the total energy consumption, and 36% of CO2 emissions, in Europe.

Zero-emission buildings need solar heating and seasonal storage investments, which can be co-financed by carbon credits.

A blockchain carbon credits wallet for individuals is a small scale solution to facilitate this, house by house.

# Organisation Profile

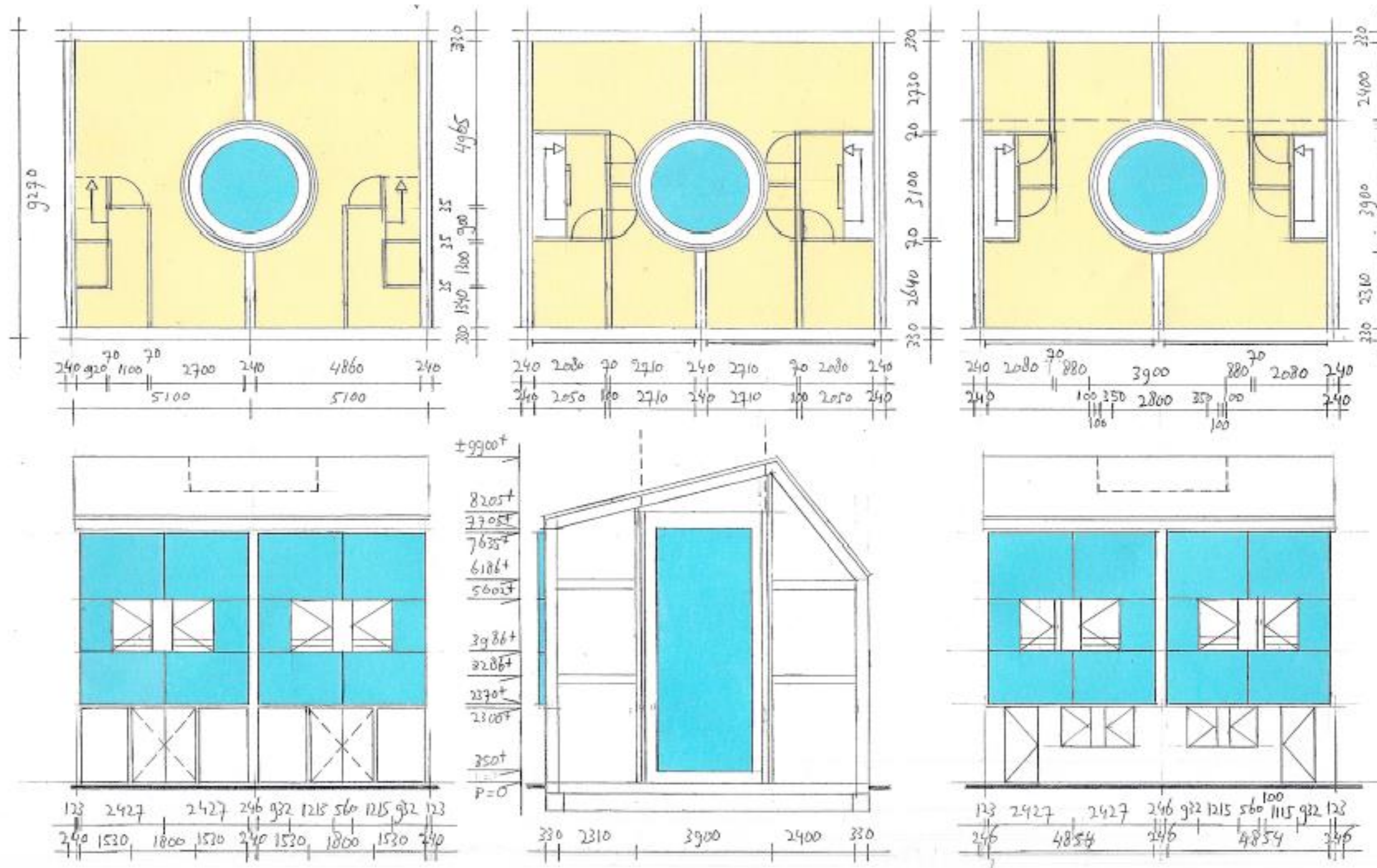


Wansdronk develops a solar energy, zero-emission and material saving building concept EMPORIUM

EMPORIUM is a low-exergy and zero-emission building concept with an integrated seasonal storage system without energy losses

EMPORIUM is a European Smart Cities and Communities Platform's Key Innovation, and links with many European research topics

# Proposal Introduction



solar heat storage

EMPORIUM BUILDING

solar heat storage &  
thermal collector

# Proposal Introduction (2)



## EMPORIUM Blockchain carbon credits wallet topics

- carbon credits calculation methodology and certification
- wallet owned by individual or by building (legal entity status)
- carbon credits liquidation at the EU-ETS or by NGO's
- social development goal (SDG) values incorporation
- permissioned or unpermissioned (public) blockchain
- energy (emission) footprint per blockchain transaction

# Partners



Partner involved (European research experience)

- Participation in COST Actions (13) and FP5-FP8 Projects (3):
- 2019-2023 COST CA18136 European Forum for Advanced

Practices

- 2016-2020 Horizon 2020 (FP8) CHESS-SETUP Combined Heat Supply

System by using Solar Energy and Heat Pumps ([www.chess-setup.net](http://www.chess-setup.net))

# Contact Info

**For more information and for interest to participate please contact:**

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[www.chess-setup.net](http://www.chess-setup.net) (CHESS-SETUP)



**Presentation available via:**



# Join the follow-up Telco

## 9 September 10-10.30 CET

**Meeting number:** 959 100 729

**Meeting password:** 6rXFqMdV

**Join the Meeting:**

<https://eurescom-meetings.webex.com/eurescom-meetings/j.php?MTID=me456e2a83aaf2bd6e77533086d87cc8b>

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