

Synergies for district heating from hydrogen production

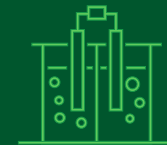
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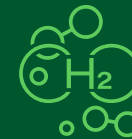
GREEN HYDROGEN PRODUCTION IN VILNIUS



Capacity of electrolyser
3 MW



Hydrogen production technology
PEM electrolyser



Hydrogen storage capacity
1700 kg



Commissioning in
2026

Investments

8 055 000 Eur w/o VAT

70 %
Subsidy

30 %
Vilnius city

Systemic approach in project execution



Hydrogen production



Refuelling station

Hydrogen busses



Use of hydrogen

Green hydrogen – one of the underlying pillars of future energy systems.

We are taking an active role in shaping the future

H₂



Rail



**Long-haul road
transport**



Aviation



Industry



Maritime

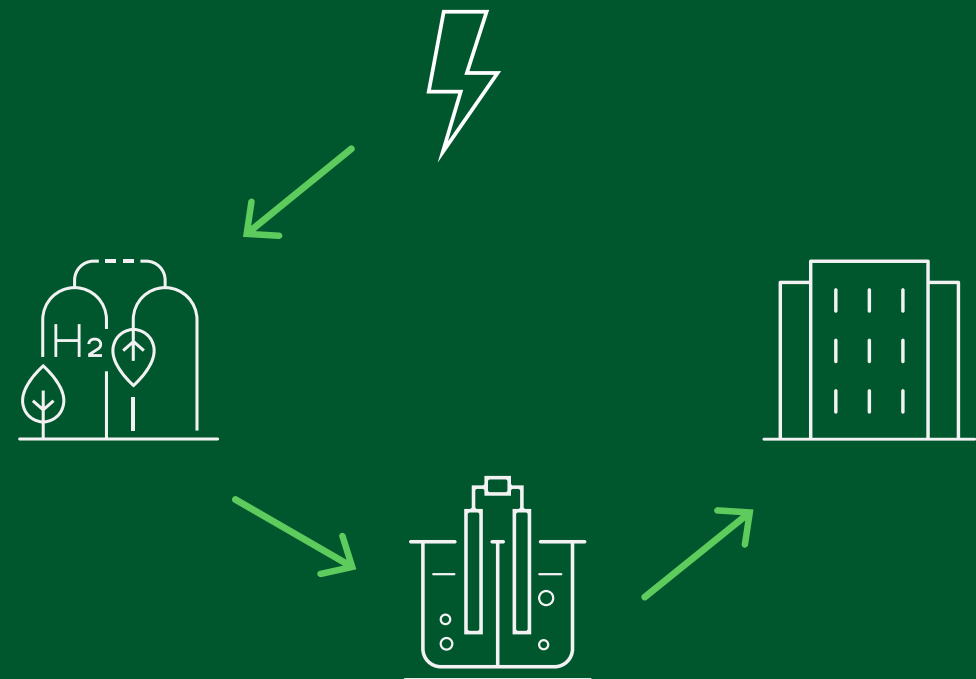
Waste heat and electricity balancing potential in green hydrogen production



Our goals

Utilize waste heat from hydrogen production

Provide electricity balancing services to the grid



District heating: city infrastructure for efficient energy system

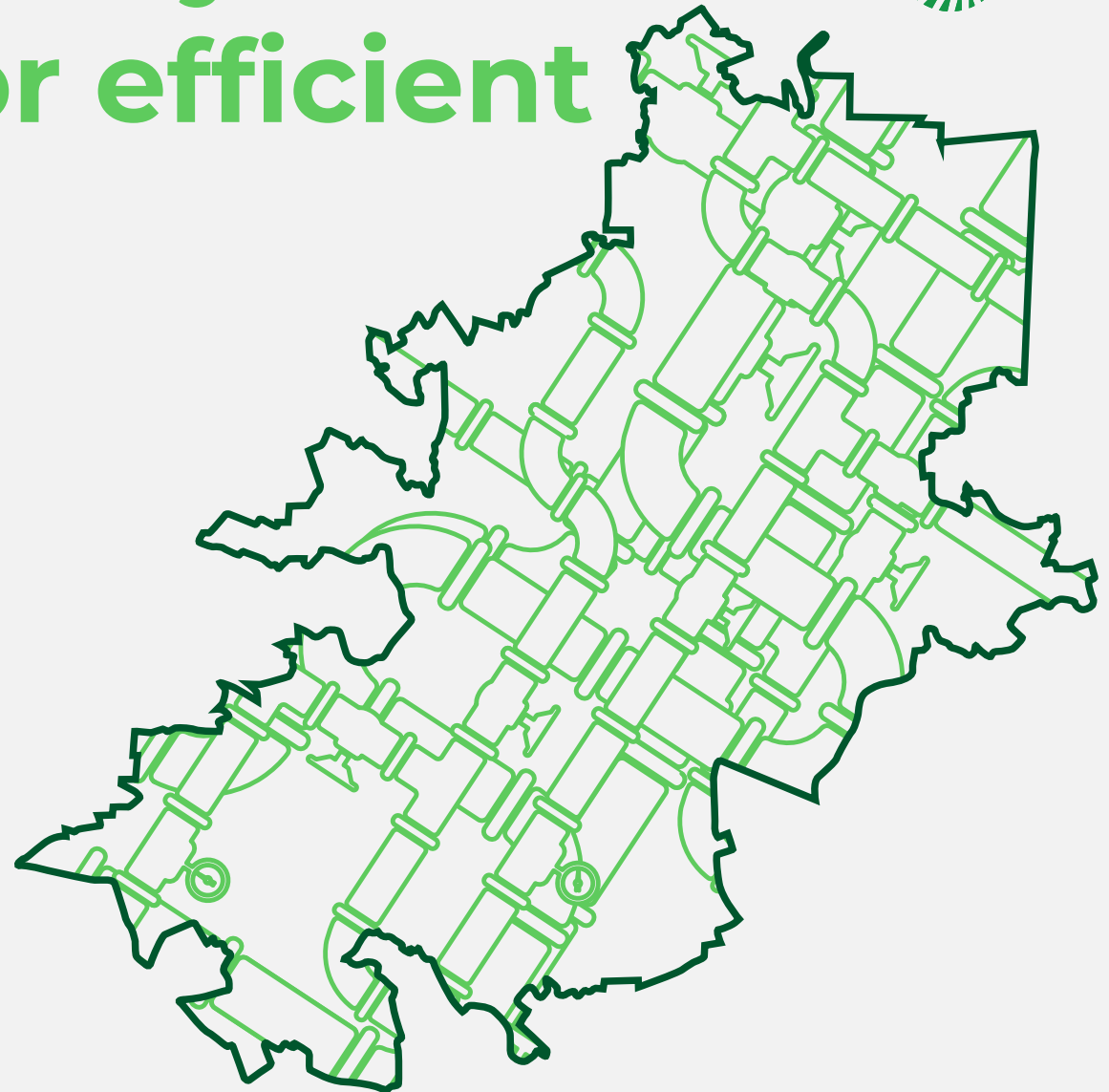


758 km

Network length

2,8 TWh

Annual heat demand



Can hydrogen replace natural gas in district heating?



A heat pump is up to

**7 times more
efficient**

than hydrogen production and
incineration



Waste heat can amount to

20-25% of primary energy.

Capturing waste heat could decrease

hydrogen costs by **10%**

Leading the way

