

Joint Call 2021 Kick-off meeting of granted projects

Project presentation pitch







CO2inloop

Extended sector coupling systems of district heating and cooling technology using CO2 as a heat transfer medium

KICK OFF MEETING JOINT CALL 2021

CO2 IN LOOP

Intro

- Georg Prem
 - BSc / project member / Reiterer & Scherling GmbH
- Consortium:
 - 4ward Energy Research GmbH (Consortium Leader)
 - Prozess Optimal CAP GmbH
 - Reiterer & Scherling GmbH
 - ArosTeknik Aps
 - Technical University of Denmark
 - Aalborg Forsyning

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Challenges we are tackling

Increase in heating and cooling demand

Heating- / cooling-lines require insulation -> expensive

5GDHC faces limitations



Solution to be provided

CO2inloop = uninsulated lines but high energy density

Suitable for sector coupling

Simulations and analysis of status quo