



Mission-oriented, interdisciplinary research on CO₂ capture and conversion for storage and use **at scale**

Novo Nordisk Foundation
CO₂ Research Center

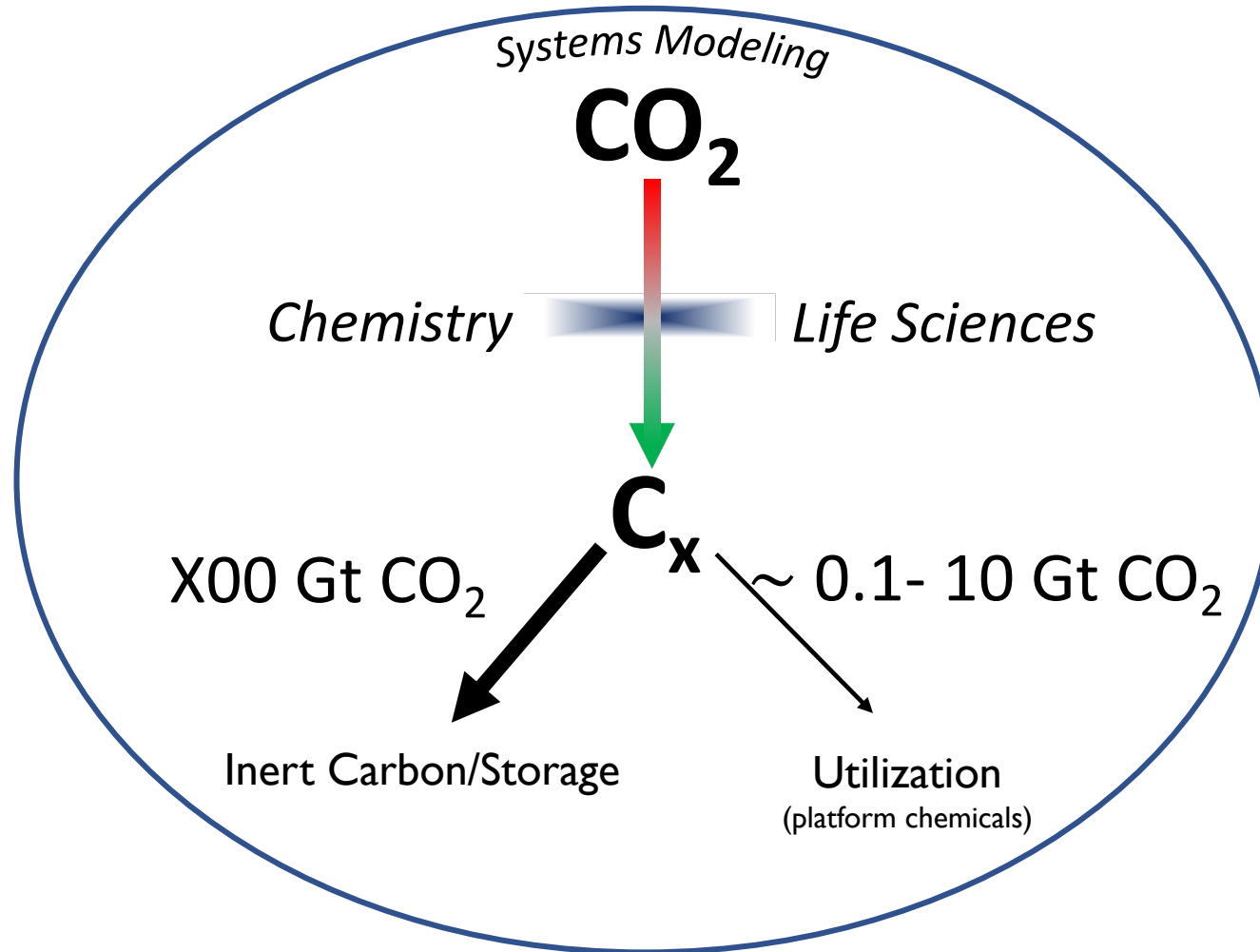


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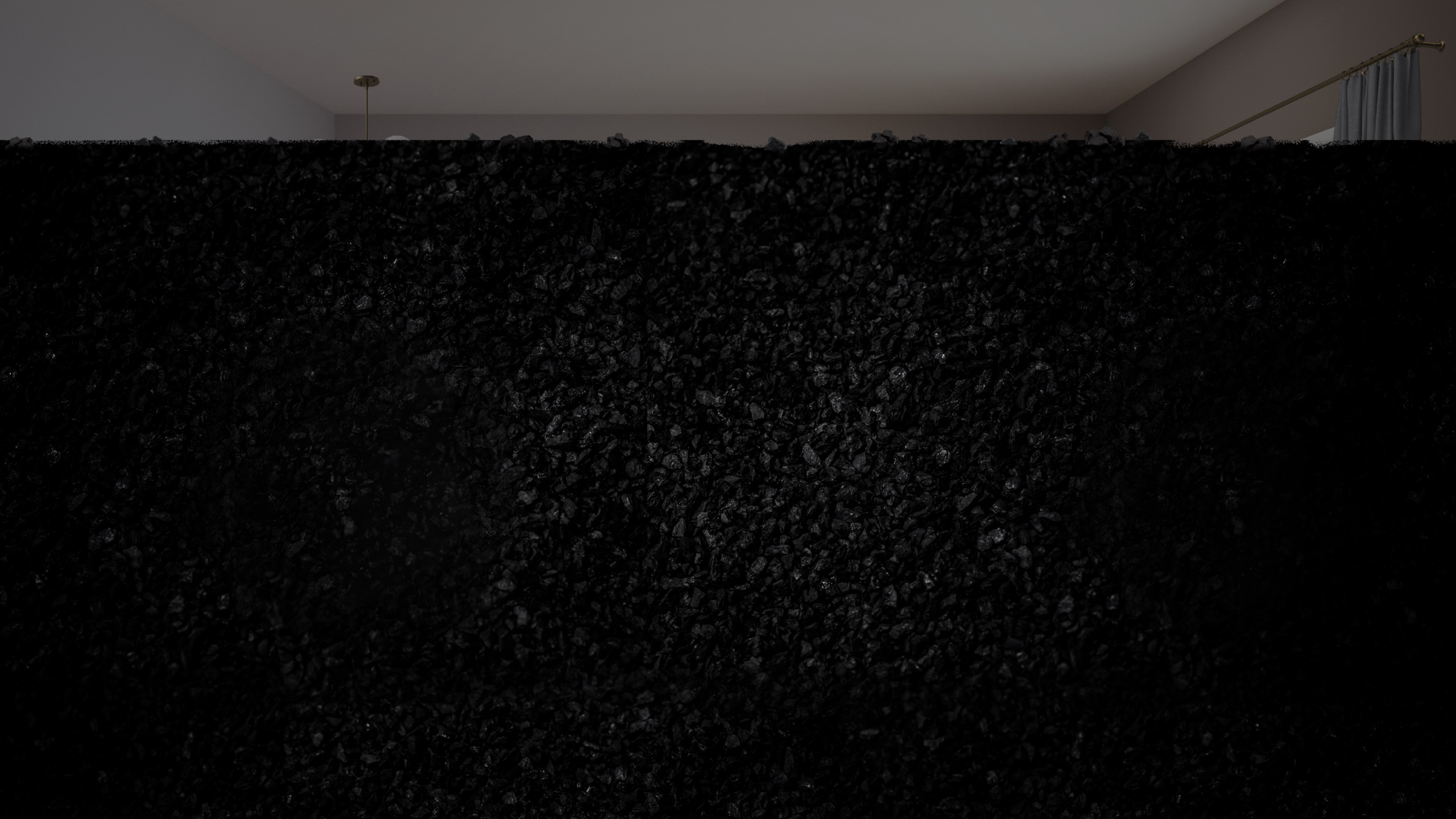
NNF CO₂ Research Center - Approach -

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It's all about Speed and Scale







Mission-oriented, interdisciplinary research on CO₂ capture and conversion for storage and use at scale

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CORC Carbon Forum



The NNF CO₂ Research Center **Carbon Forum**

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A high-level, cross-disciplinary conversation on
Facts, Understandings, Strategies, and Solutions for the Green Transition in Denmark and Europe

Dec. 7, 2022

The Transition to a Green Energy Future without Russian Gas

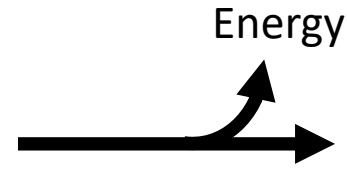


Some useful definitions for today

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Natural gas

Fossil **CH₄**
(60-90%) **methane**

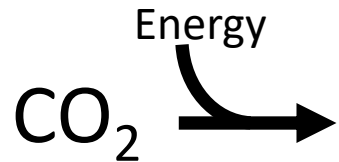


CO₂

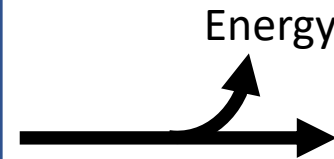
(net atmospheric CO₂ increase)

Biogas

CH₄ (60%)
CO₂ (40%)



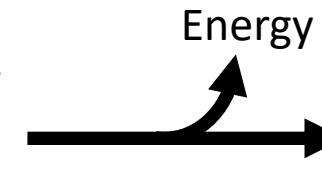
Biomass



CO₂



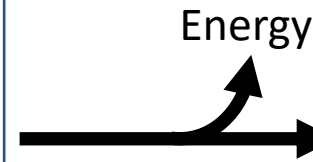
CH₄



CO₂

Renewable methane

CO₂ $\xrightarrow[\text{Microbes}]{\text{Energy}}$ **CH₄**
Biomethane



CO₂



The NNF CO₂ Research Center **Carbon Forum**

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Upcoming Carbon Forum in 2023

Carbon-to-X vs. Power-to-X

A Third Function of Biomass

The Social Cost of Carbon

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