Tech Tour Energy Transition 2021 Investors (IVC) Round Table 17 Nov 2021

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Welcome & Opening of IVC RoundTable

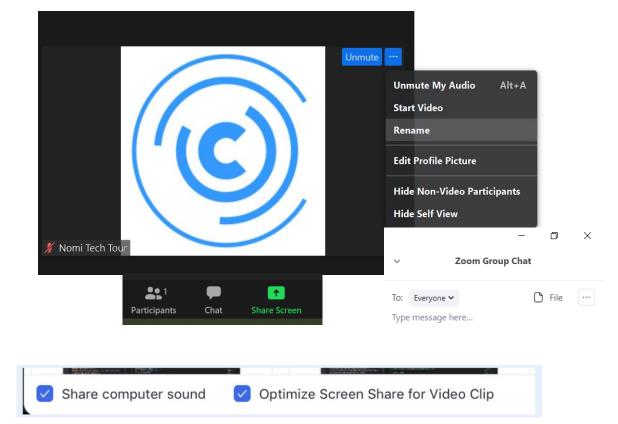


Radostina Tsenova

Tech Tour Investors Club Manager **Tech**Tour

Energy Transition 2021 Session: Investors (IVC) Round Table

Housekeeping Rules



• **Recording** the session

- Rename yourself
- Turn on your camera all the time
- Turn off your microphone only when invited
- Chat functionality use it actively
- Share Screen when it's your turn to present
- Key combination to mute/unmute ALT+A
- Key combination to open chat ALT+H

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TechTour Investors Club Members



TechTour **Programmes**

2022

Regional



Growth



Digital





Health



TechTou

Sustainability





2023



Energy Transition 2021 Session: Investors (IVC) Round Table

Investors (IVC) Round Table - Agenda

3 min 5 min	Welcome and Opening by Tech Tour Welcome & Opening by Fred van Beuningen
90 min	 Part 1 of the IVC Roundtable - Insights Session on CCU Anastasios Perimenis, Secretary General, CO2 Value Europe Arij van Berkel, LUX Research Bob Hoomans, Programme Manager Materials & Energy at University of Twente Timo HERBERZ, Innovation Fund / DG Clima Daniel Marenne, ENGIE Alfred Lam, Chrysalix Venture Capital
15 min	Short Break
60 min	 Part 2 of the IVC Roundtable - Deal Syndication Session Peter van Gelderen, Icos Capital Michael Claes, SABIC Iliya Bozhkov, Saudi Aramco
5 min	Feedback Poll & Next Steps
Total: min	

IVC Roundtable Insights Session on CCU

Welcome & Opening of IVC RoundTable



Fred van Beuningen

Managing Director



Investor Insight Session on CCU



Anastasios Perimenis

Secretary General



CO2 VALUE EUROPE

CCU developments in Europe

Anastasios Perimenis, Secretary General

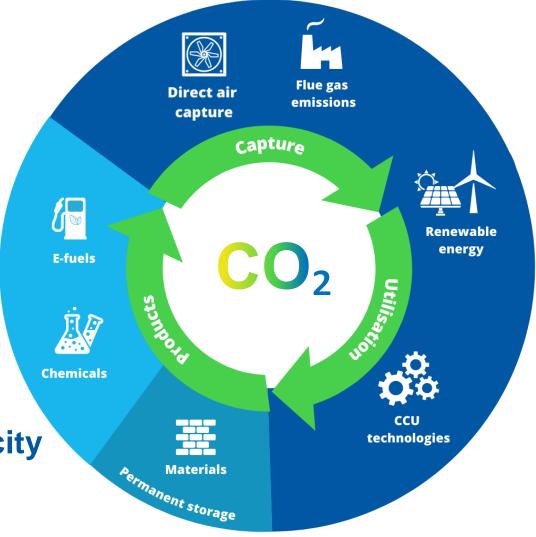
Investor insights on CCU

17 November 2021 – TechTour Energy 2021 - Rotterdam





- Net-zero to negative emissions
- Alternative carbon feedstock
- Circularity and waste management
- Sustainable & resilient industry
- Storage & transport of renewable electricity



CO₂ Value Europe integrates stakeholders from the complete CCU value chain across industries



Multinational Companies, SMEs, Regional Clusters, Research Institutions, Universities





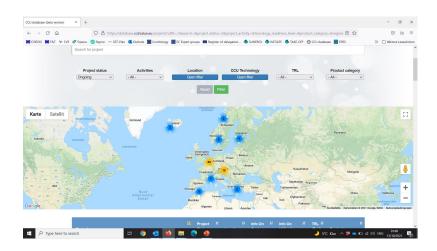
Collective intelligence on CCU technologies



Up-scaling and innovation



Policy, advocacy, communication





CO₂ VALUE EUROPE



CCU is happening now...









norsk e-fuel





Stockage de CD, par carbonatation du béton recyclé

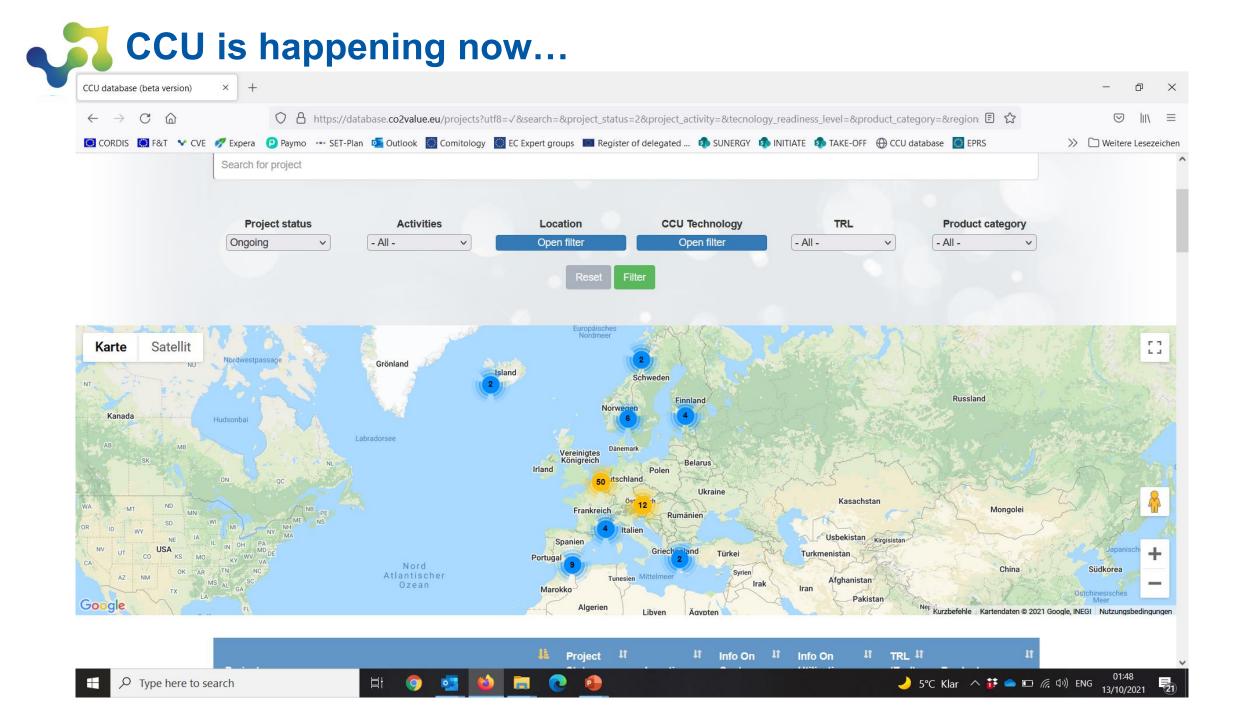






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HUB







84k Accesses 252 Citations 388 Altmetric Metrics

frontiers

in Energy Research

ORIGINAL RESEARCH published: 14 February 2020

doi: 10.3389/fenrg.2020.00018

^aSustainability Assessment of Material Life Cycle, Katholieke Universiteit Leuven (KUL), Kasteelpark Arenberg 44 box 2450, BE-3001 Leuven, Belgium ^b Sustainable Materials Unit, Vlaamse Instelling voor Technologisch Onderzoek (VITO), Boeretang 200, 2400 Mol, Belgium ^c Center for Economics and Corporate Sustainability (CEDON), KU Leuven, Warmoesberg 26, BE-1000 Brussels, Belgium

Support in Research, Innovation & Deployment

Horizon Europe



Several (>30) topics of interest for CCU in 2021-2022 First deadlines 10/2021



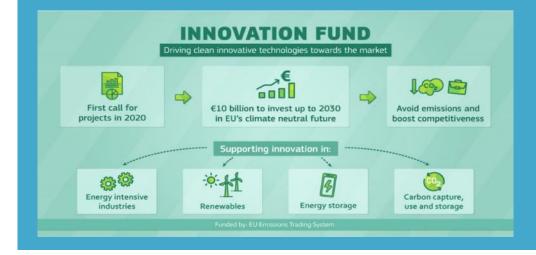
IMPORTANT PROJECTS OF COMMON INTEREST (IPCEI)

Based on Strategic Value Chains, two of which are linked to CCU:

- Hydrogen Technologies
- Low CO₂ emissions industries



CCU/CCS is a priority in the Strategic Energy Technology Plan



CCU is part of the Innovation Fund

Two calls already published (for large- and <u>small-scale projects</u>) More than €10+ billion for 10 years; yearly calls High TRL, mature, innovative, pre-commercial projects with significant climate mitigation benefit

✓ H2020 : More than 90 collaborative projects receiving more that 650 M€



non exhaustive list

🚯 Sustainable Taxonomy *

🖄 RED II revision

- ETS revision
- Carbon Removal Certification Mechanism *
 - **ReFuel Aviation / FuelEU Maritime**
 - ★ Energy System Integration → <u>CCUS Forum</u> *
- SET-Plan CCUS Action 9
- Sustainable Products Initiative





- Next Generation EU → Recovery & Resilience Fund *
- New Industrial Strategy

Climate Law

- **Energy Taxation Directive**
- Carbon Border Adjustment Mechanism *
- Δ⁴Δ

 $(\nabla \Sigma)$

- CO2 emissions for cars and vans
- 2²2

....



Launched on 14 July 2021 by the European Commission

	Policy instrument	Impact on CCU
	EU Emissions Trading System (EU ETS) revision	 CO₂ which is chemically and permanently bound in a product under normal use (e.g. CO₂ mineralisation) is excluded from the obligation to surrender allowances;
		 Avoid double-counting of emissions released by the use of RFNBOs*.
A	<u>Renewable Energy</u> Directive (REDII) revision	 At least 2.6% of the energy supplied to transport by 2030 is covered by RFNBOs; 50% of the use of hydrogen in the industry is covered by RFNBOs.
	ReFuelEU Aviation	 Binding targets per volume shares for RFNBOs: min 0.7%, 8%, 28% of RFNBOs by 2030, 2040, 2050, respectively and minimum 28% by 2050.
	Fuel EU Maritime	 Binding GHG reduction targets for ships: 2%, 6%, 26%, 75% in 2025, 2030, 2040, 2050, respectively, by including RFNBOs to reach these targets.
	Energy Taxation Directive revision	 Minimum taxation rate of zero for 10 years for RFNBOs for specific types of air and waterborne navigation.

* RFNBO: Renewable fuels of non-biological origin (i.e. incl. CCU fuels)

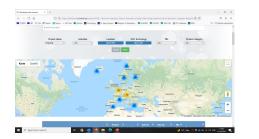


Science is confirming

- CCU can utilize up to 7 Gt CO₂ per year by 2050 <u>Hepburn et al., 2019</u>
- CCU can lead to annual reductions of up to 3.5 Gt CO2-eq in the chemical sector in 2030 Kätelhön et al., 2019
- Mineralisation can reduce climate impacts over the entire life cycle based on the current state-of-the-art Ostovari et al., 2020
- DAC-to-fuel pathways can provide climate benefit over conventional fuel if low carbon electricity is used <u>Liu et al., 2020</u>

Projects are showcasing

Upscaling is key



Research & Innovation

- Materials & catalysts
- Process integration
- CCU in modelling & scenarios
- Metrology for CO₂
- LCA/TEA/Societal

Policy

- EU Taxonomy
- Renewable electricity
- Market-pull mechanisms
-

Funding

- Ecosystem of public, private and industrial investors
- Synchronisation between national & EU schemes

• ...

CO2 VALUE EUROPE



Anastasios Perimenis Secretary General

anastasios.perimenis@co2value.eu www.co2value.eu



Investor Insight Session on CCU



Arij van Berkel

Research Director



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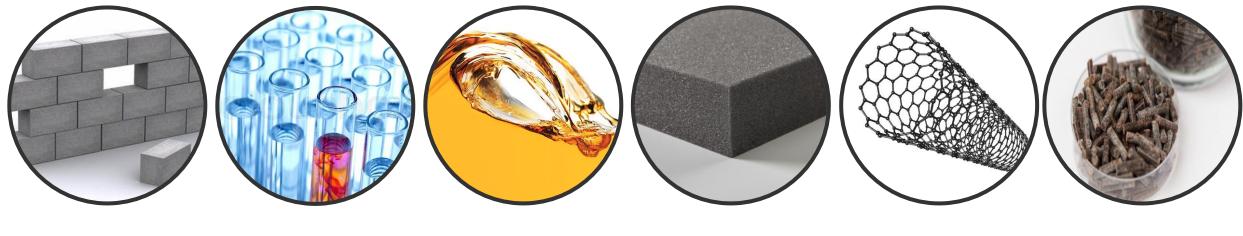
Milligrams to Megatons

Following the innovation journey of CO₂ utilization

Arij van Berkel Vice President, Energy transition



A range of products can be made from CO₂ using novel carbon utilization technologies



Concrete Chemical Fuel Polymer Carbon Protein



In 2000, only three companies had publicly disclosed R&D initiatives in carbon utilization

Concrete	
Chemicals	Mitsui Chemicals
Fuels	
Polymers	AsahiKASEI
Carbon	
Protein	

Client confidential. Not for redistribution.

Demonstration

Commercial

2000

The landscape rapidly evolves with multiple companies founded by 2010

2010

Concrete	Carbon8 Solidia Technologies
Chemicals	IOUIDLIGHT Image: Carbon Recycling International Image: Dioxide Materials: The CO, Recycling Company Image: Carbon Recycling Company
Fuels	Sunfire KRAJETE Electrochaea
Polymers	NOVOMER AsahiKASEI
Carbon	Solid Carbon Products
Protein	

Commercial

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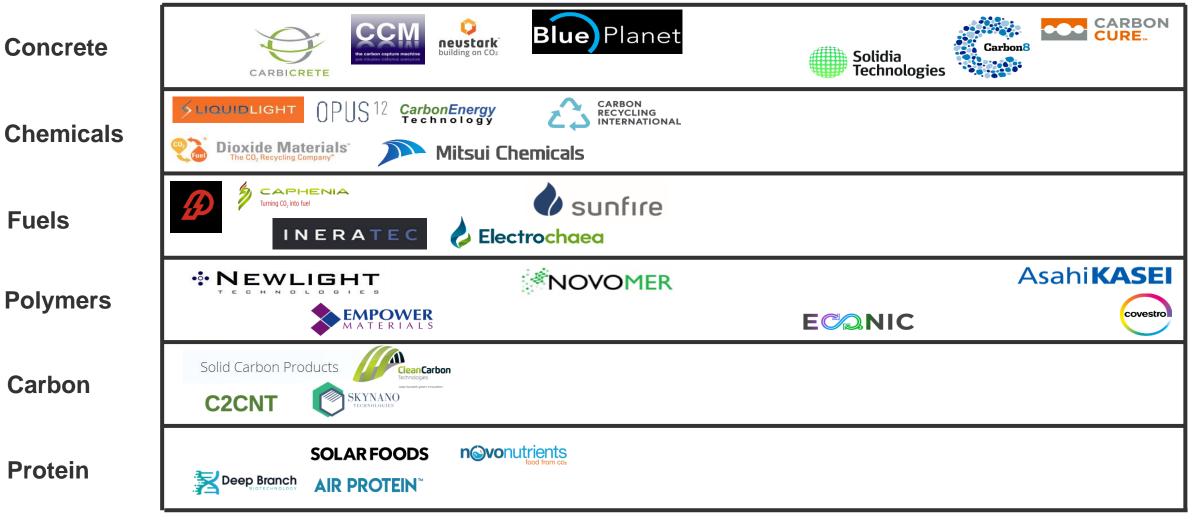
Varying degrees of challenges in CO₂ utilization technologies become pronounced by 2015

Client confidential. Not for redistrib

Blue Planet Concrete Carbon8 Solidia Technologies CARBON RECYCLING INTERNATIONAL **SLIQUIDLIGHT** OPUS¹² Chemicals Dioxide Materials" Mitsui Chemicals Enobral sunfire **Fuels** Electrochaea KRAJETE Asahi **KASEI** * NEWLIGHT NOVOMER Polymers **EMPOWER** MATERIALS covestro SAPHIUM ECONIC Λ Solid Carbon Products CleanCarbon Carbon SKYNANO **n** vonutrients **Protein Demonstration** Laboratory **Commercial**

2015

Concrete and polymers established as near-term opportunities in CO₂ utilization



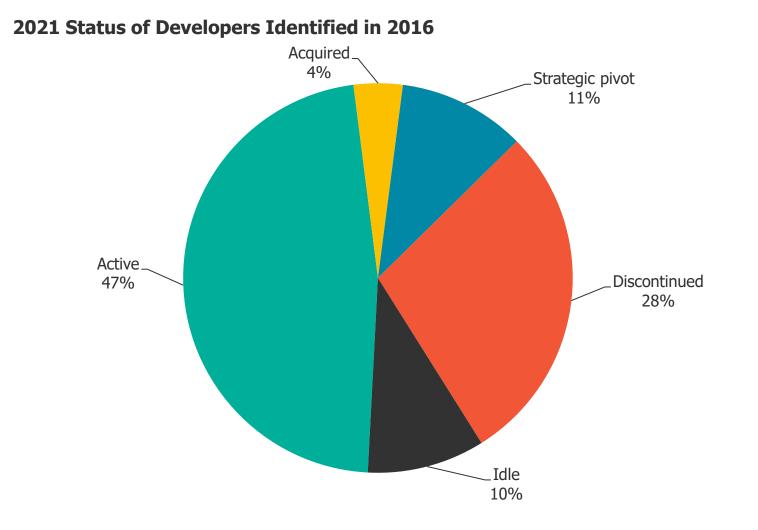
Demonstration

Commercial

2020

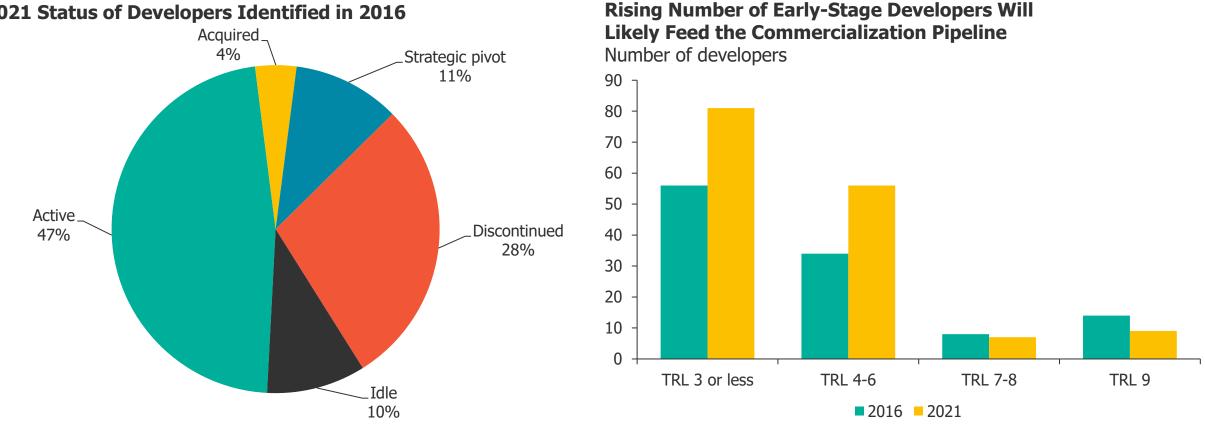
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Only 47% of 2016 developers remain active in CCU





However, the pipeline of options is filling faster



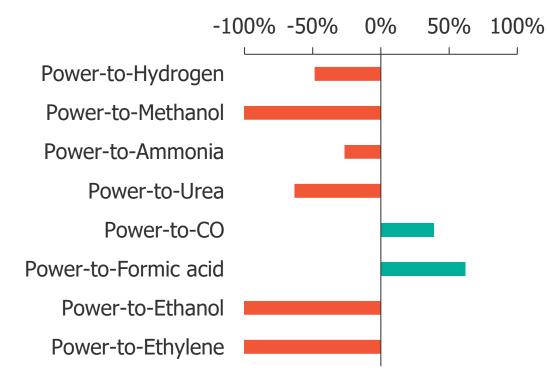
2021 Status of Developers Identified in 2016

30

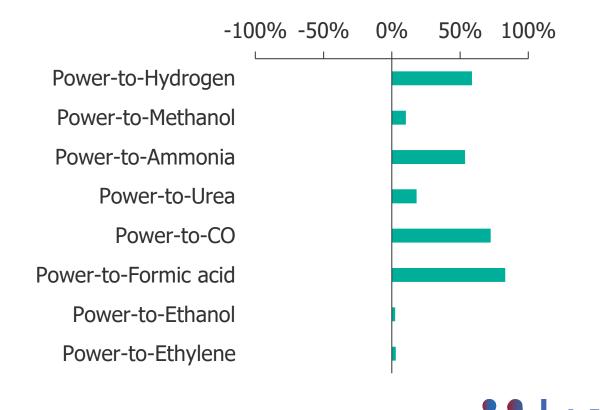
THE REALITY OF CO₂ AS FEEDSTOCK CO₂ as feedstock depends on cheap renewable electricity

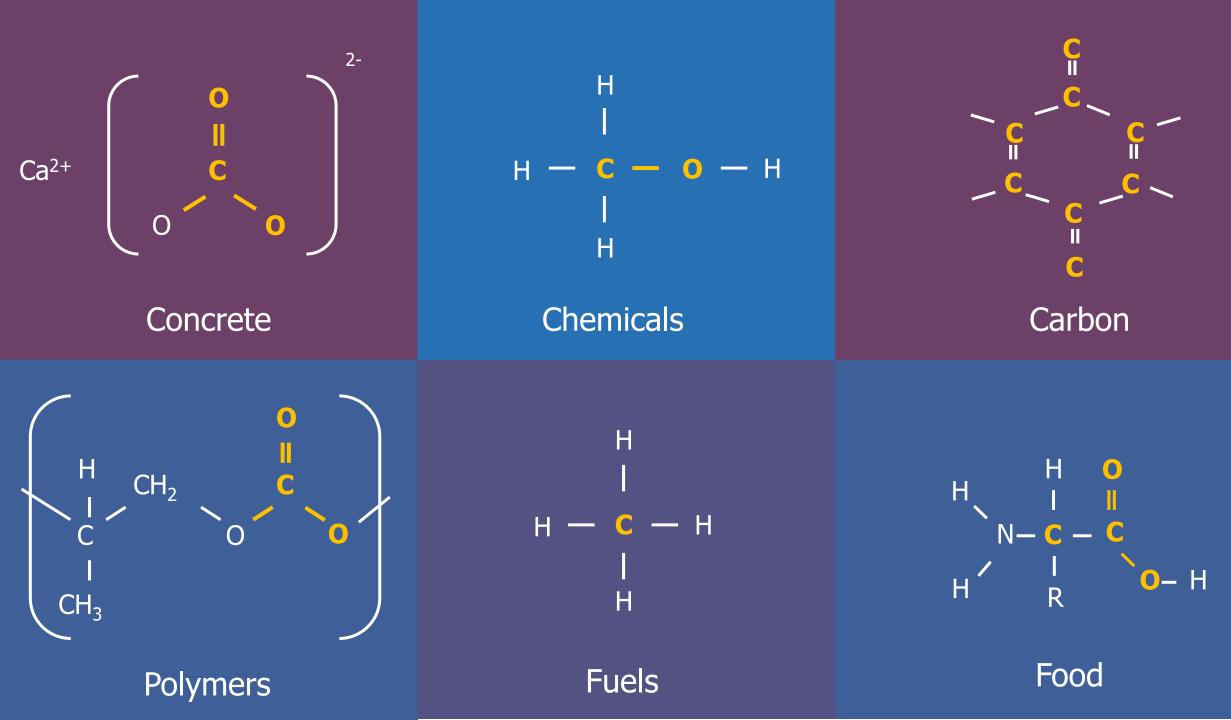
Relative cost of P2C to CCS

CO₂ tax: €50/ton | Electricity: €0.05/kWh



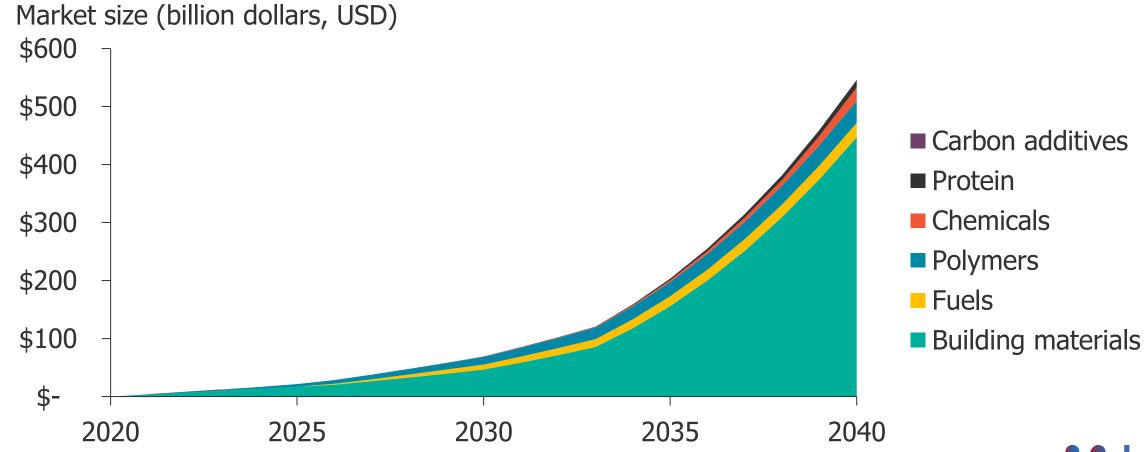
CO₂ tax: €50/ton | Electricity: €0.01/kWh

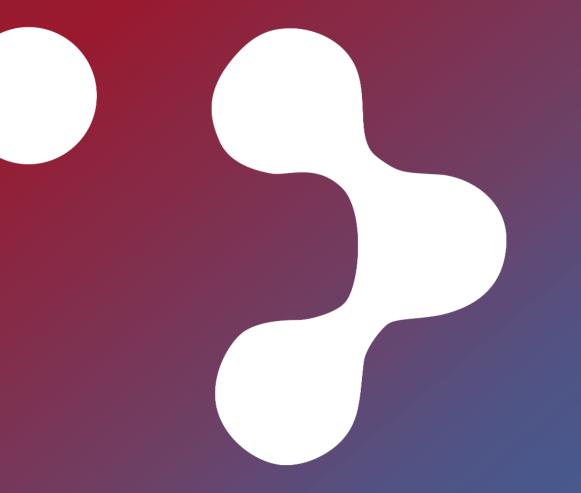




CO₂ utilization will be a \$550 billion dollar market by 2040, driven by the building materials sector

GLOBAL CO₂ UTILIZATION MARKET





Arij van Berkel

+ 31 20 280 7908 arij vanberkel@luxresearchinc.com

Investor insights



CO2 utilization is still an early-stage technology area

Investors have to watch university research and early start-ups. The best innovations are yet to be invented here. Watch developments such as plasmonics.

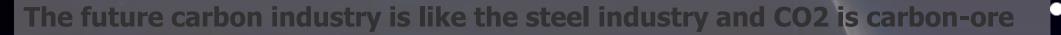


Building materials is the first market but is temporary

If the goal is to lock up as much carbon as possible, then you have to focus on building materials. As the world decarbonizes, the use of CO2 in bulk for building materials makes less sense and you need to focus on applications with an intrinsic need for carbon



The use of carbon in the future resembles any other oxide-based industry Recycling is cheaper and easier than reducing oxides. Like steel and glass, the carbon industry needs to put recycling first and fresh carbon second. They go hand-in-hand





Investor Insight Session on CCU



Bob Hoomans



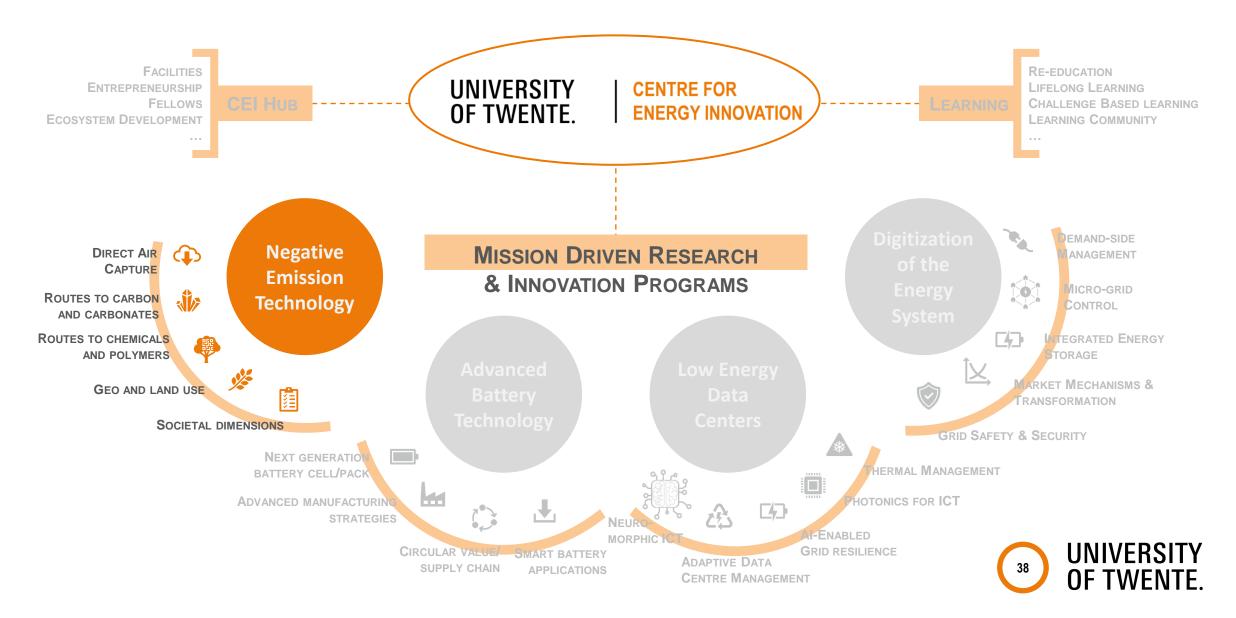
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NEGATIVE EMISSION TECHNOLOGIES

BOB HOOMANS, LEON LEFFERTS, JOS KEURENTJES UT CENTER FOR ENERGY INNOVATION



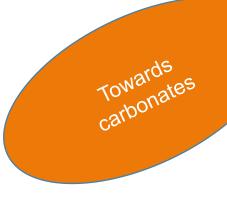
UT CENTER FOR ENERGY INNOVATION

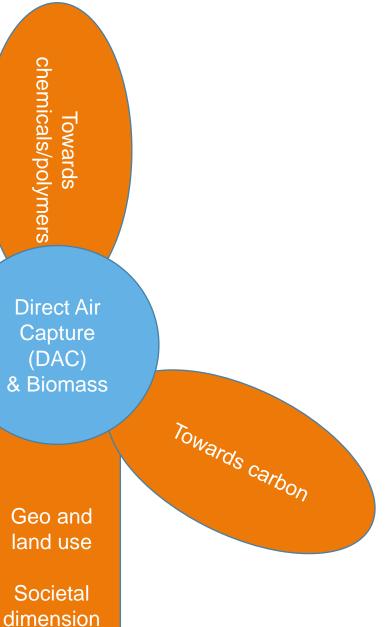




NET TECHNOLOGIES

- UT knowledge base as a starting point
- Direct Air Capture is the core program, surrounded and supported by a number of specific programs
- Many different aspects involved (not only technical)







OF TWENTE.

MULTI-DISCIPLINARY APPROACH IN THE PROPOSED RESEARCH PROGRAM, BUILDING ON A STRONG FOUNDATION OF RESEARCHERS

DIRECT AIR CAPTURE

SOCIETAL

DIMENSION

TO CARBON AND

TO CHEMICALS

AND POLYMERS

GEO AND LAND USE

CARBONATES

Negative Emission Technology



Bob Hoomans CEI / MESA+ b.p.b.hoomans@utwente.nl



Guido Mul TNW / MESA+ Low pressure drop systems

- Novel desorption triggers
 - Low desorption energy materials
 - **Mineral routes**
 - **Electrochemical technologies**
 - **Plasma technologies**
 - Carbonate based polymers
 - To circular solutions
 - **Optimized local solutions**
 - Carbon as soil enhancement
 - Ethics of NET
- Governance and sociotechnical implications
- **Responsible design of NET**









Fredrik Wurm TNW / MESA+



Alfred Stein ITC



TNW / MESA+

TNW / MESA+



Albert van den Berg EEMCS / MESA+

Wim Brilman TNW







Sascha Kersten TNW / ISPT



Peter Paul Verbeek BMS



Sissi de Beer TNW / MESA+

Gerrit Brem ET

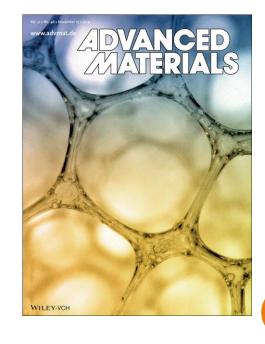


DIRECT AIR CAPTURE (1)

Challenge 1: Low ΔP for treating large volumes of air

- Wind, Natural convection ("Physics", "Equipment")
- Open structures (3D printed foams, Visser)
- UT PI's: Theory/Fluid Dynamics (Stevens/Lohse), Equipment (Brem/Brilman), Location ("ITC"), Material characterization (Bäumer)





Direct Air Capture (DAC)

UNIVERSITY

OF TWFNTF.

DIRECT AIR CAPTURE (2)

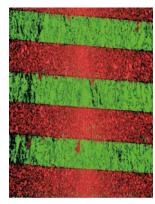
Challenge 2: Low ΔE materials (low desorption energy)

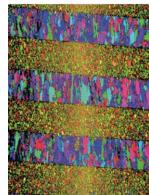
- Solid materials (IMC group, Lefferts, Nijmeijer)
 Phase change materials (polymers/liquids) (Brilman/de Beer)
- Other release mechanism than T (P, electrical, magnetic, sound Rijnders, ten Elshof)

The water challenge (and opportunity!)

Alternative sources as a starting point: existing point sources and biomass

Direct Air Capture (DAC)

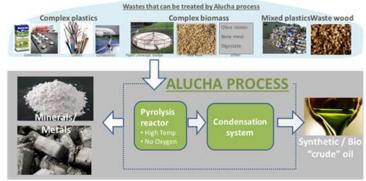




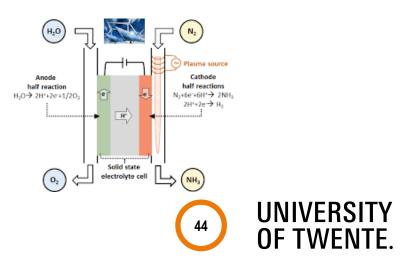


TOWARDS CARBON

- Source: CO₂, biomass ("the good one"), waste, bioCH₄ (Brem, Mul, Mei..)
- Products: C, O₂, H₂
- Applications of C
 - Fillers in rubbers (Dierkes/Blume)
 - C in materials (high-tech, moderate volumes)
 - Soil enhancement in agriculture (Lievens)
- Technologies
 - Electrochemical (Mul, Mei, Lohse, Banerjee)
 - Pyrolysis/torrefaction (Brem)
 - Catalysis + Plasma (Lefferts)
 - High-T solar (direct decomposition of CO₂)



Towards carbon



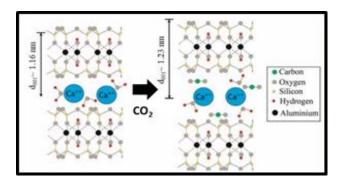
TOWARDS CARBONATES

- Sources: biomass and CO_2 $CO_2 + CaO \rightarrow CaCO_3$ $C_6H_{12}O_6 + 6CaO \rightarrow 6 CaCO_3 + 6H_2$
- Products can be stored or used as construction materials (Doree)
- Technologies
 - Sorption-enhanced reforming (Kersten, Lefferts, ...)
 - Biological, e.g. carbonate algae (Odijk, vd Berg,..)
 - Weathering of minerals (Luding, "ITC",...)
 - Direct in subsurface (Mugele)
 - Technology-enhanced (tuning material and particle size to maximize CO₂ uptake (Odijk)
 - Enhanced weathering by passivation layer breakup

ES



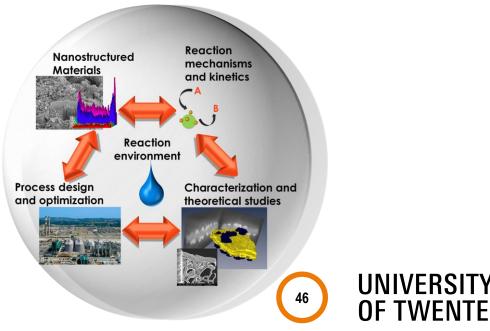
Towards carbonates

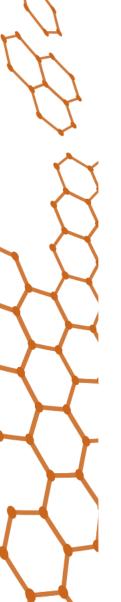




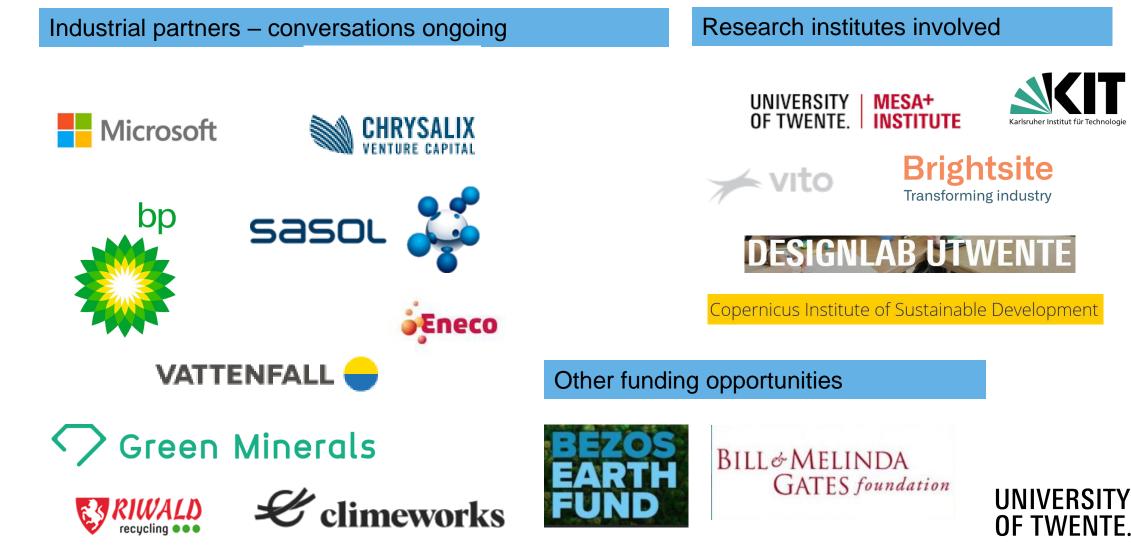
TOWARDS CHEMICALS AND POLYMERS

- Sources are biomass and CO₂
- Oxygen-rich products
- Not fully "NET" but supportive
- Carbonate based polymers (Wurm, de Beer, Faria)
- Base materials (Schuur)
 - DMC and other carbonates
 - Crotonic acid (Schuur)
 - Alcohols (MeOH, DME) (Brilman)





ECOSYSTEM IS UNDER CONSTRUCTION



TAKE AWAY MESSAGES DAC

- LOW PRESSURE DROP PROCESSES
- LOW DESORPTION ENERGY PROCESSES
- USE THE WATER CHALLENGE TO ADVANTAGE
- INTEGRATED APPROACH



Bob Hoomans b.p.b.hoomans@utwente.nl



TechTour Investors Club

Investor Insight Session on CCU



Timo Herberz

Policy Officer



Commission



Innovation Fund

Investor Insights Session on Carbon Capture Utilisation

17 November 2021

Timo Herberz DG Climate Action



Innovation Fund

Production and use of Renewable energy

including manufacturing plants for components

Carbon Capture Use and Storage

Scaling up clean tech

Large-scale demo & FOAK

Energy-intensive industries

including substitute products

Energy storage

including manufacturing plants for components



Key features

Financed from the revenues of the EU Emissions Trading System Volume: EUR 25 billion* until 2030 (depending on carbon price) *at EUR 50 / tCO2 Large projects: Support of up to 60% of additional capital and operating costs (up to 10 years) Small projects: up to 60% of CAPEX

Up to 40% of grant disbursed at financial close Up to 60% of grant disbursed during **10-years** operating period against GHG emission avoidance

Small scale projects – shorter **3-years** period

Annual calls for largescale and small-scale projects

Single applicant or consortium Projects must be implemented in the EU, NO and IC

Project development assistance



Award criteria

GHG emission avoidance

- Absolute GHG emission avoidance (tCO2)
- **Relative** GHG emission avoidance (%)
- Quality and credibility of the calculation, other GHG emission savings, net carbon removals

Degree of innovationHow much beyond the state-of-the-art?

- Impact on EU policy objectives: energy efficiency, circularity, deployment of renewable electricity

Project maturity

- Technical: Is the project feasible at the proposed scale?
- Financial: Ready to reach financial close within 4 years? Viable investment?
- Operational: Capacity and readiness to implement

Scalability

• Market potential for widespread application: at project, regional, sector and economy level

Cost efficiency

• Requested support per ton of CO2

- Single-stage call launched on 26 October 2021
- Deadline for submission <u>3 March 2022</u>
- Expected results in <u>July 2022</u>
- Volume of 1.5 billion

INNOVATION FUND Second call for large-scale projects





Funded by: EU Emissions Trading System

Package to deliver the European Green Deal 14 July 2021

The proposal for a revised EU ETS also increases the Innovation Fund:

- Increase by 200 million allowances
- Allowances could be added that would no longer be allocated for free to sectors protected against carbon leakage by a new Carbon Border Adjustment Mechanism
- This could bring the Innovation Fund to up to EUR 47 billion (in today's prices of EUR50/tCO₂) to be invested over 10 years
- In addition, the scope of the Innovation Fund is proposed to be extended to provide support to projects through carbon contracts for difference



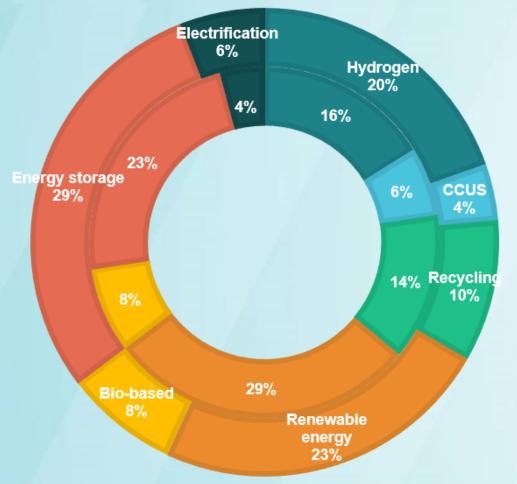
First call for small-scale projects

Project overview



First call for small-scale projects

32 successful small-scale projects



3 CCUS relevant projects:

- AGGREGACO2: Fabrication of CO₂ negative aggregates based on disruptive accelerated carbonation processes fueled by carbon capture in refineries
- Silverstone: Full-scale CO₂ capture and mineral storage at the Hellisheidi power station
- FirstBio2Shipping: First Bio-LNG to marine shipping

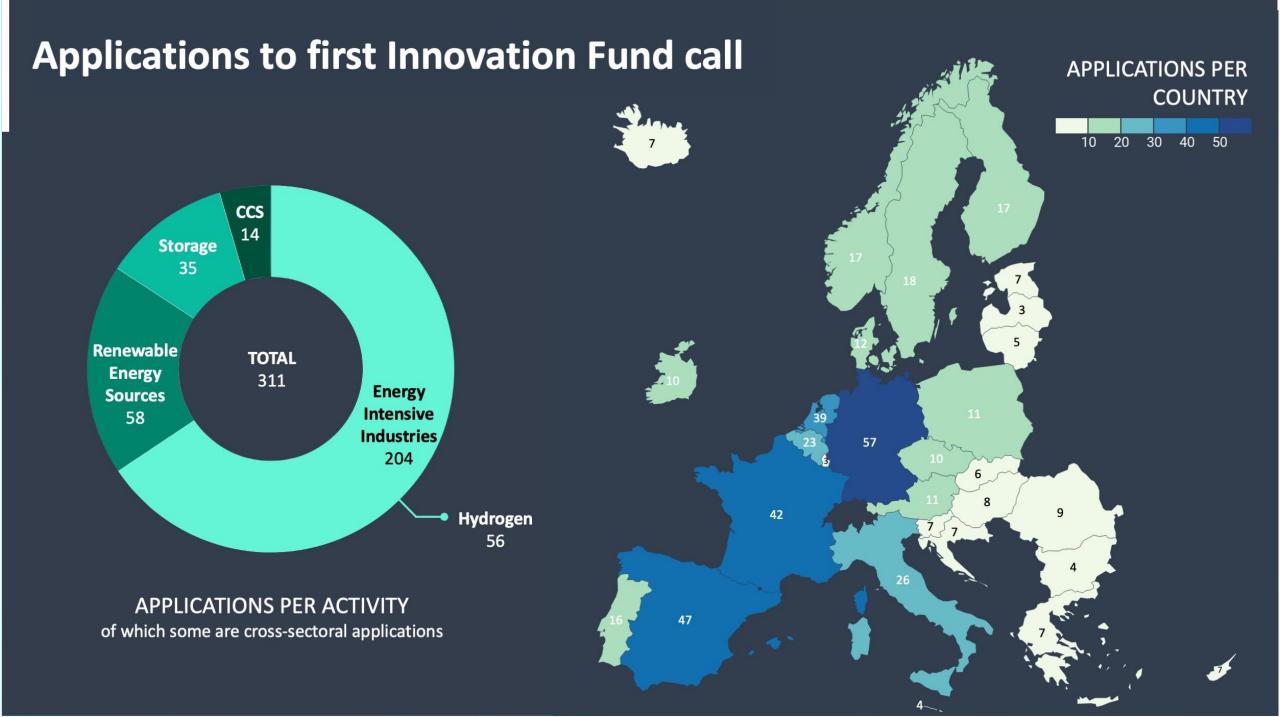
Legend: High-level screening of applied technological pathways. Classification of projects can be overlapping.
 59 Inner circle: applications received



First call for large-scale projects

Project overview





Where to find more information?



All call documents available on the Funding and Tenders Portal including:

✓ Guidance and calculation tools on GHG emissions and relevant costs

- ✓ Frequently asked questions
- https://europa.eu/!QB67by



Further info, planning of new calls, recorded webinars and videos available on the IF Website:

ECO

https://europa.eu/!rx34Dt



Innovation Fund - YouTube

https://bit.ly/2WxK8w7



TechTour Investors Club

Investor Insight Session on CCU



Daniel Marenne

Energy Solution Architect



Columbus project

Wallonia leader of the energy transition

First step in defossilizing the industry worldwide

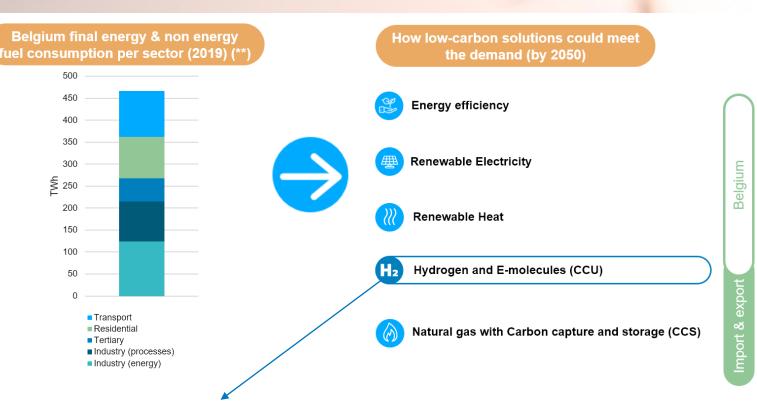






John Cockeri

Aiming at climate neutrality



After Energy efficiency, **green** electrification is the cheapest way to achieve carbon neutrality.

Hydrogen & E-fuels are part of the solution for hard to abate sectors.

E fuels have the highest energy density

best solution for hard to abate sector

- I. Maritime (E-LNG) *
- 2. Aviation (E-Kerozine)
- 3. Petrochemical feed stock.

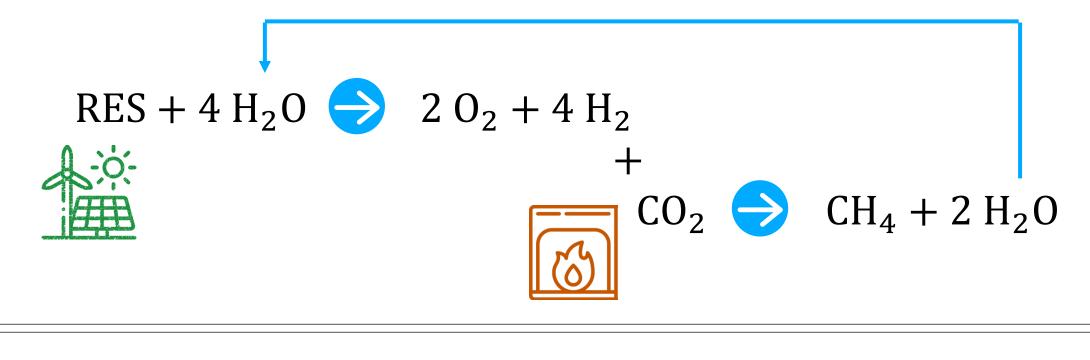
E Fuels can be used today for industry

- Transport, distribution and storage infrastructure **already** exist.
- E fuels are similar than fossil fuels
 - 1. No need of new investment to become carbon neutral.
 - 2. Industrials can focus their innovation in process improvement and new products development (for instance the **new Carmeuse kiln**).

* https://www.engie.com/en/journalists/press-releases/cma-cgm-and-engie-a-strategic-and-industrial-partnership-to-decarbonize-shipping

E fuel production

How do we produce e-methane ?



enewable Energy Sources 9 MWh green electricity



Hydrogen & CO₂ 6 MWh green $H_2 + 1 \text{ tCO}_2$



E-Methane & Heat 5 MWh green $CH_4 + 1$ MWh heat

engie

CARMEUSE

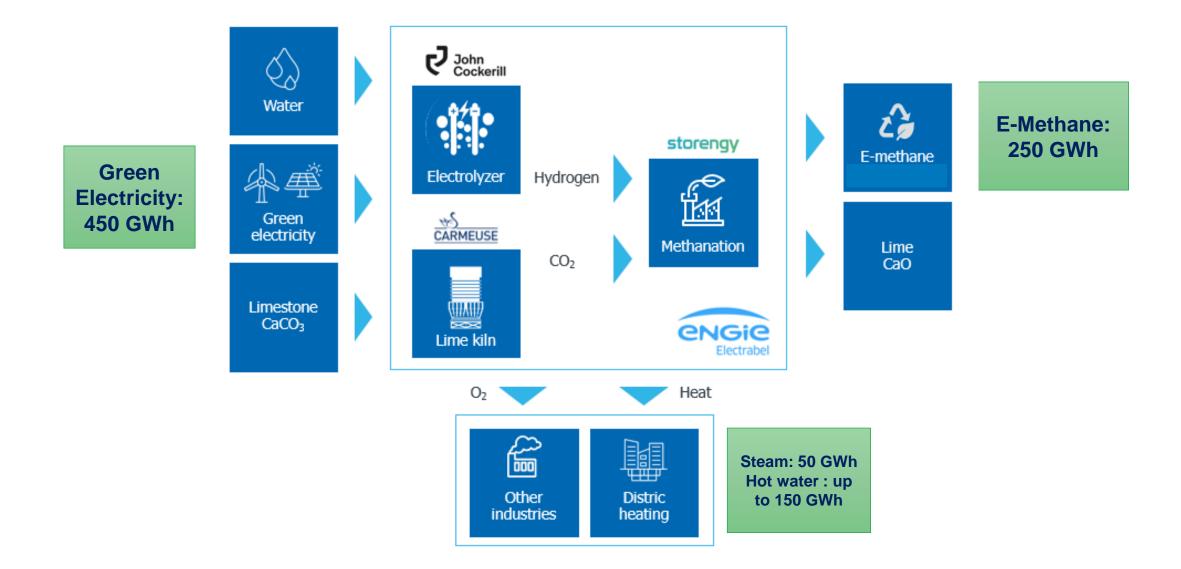
Advantage: methanation heat can be used to capture the CO₂

Columbus Project: scope

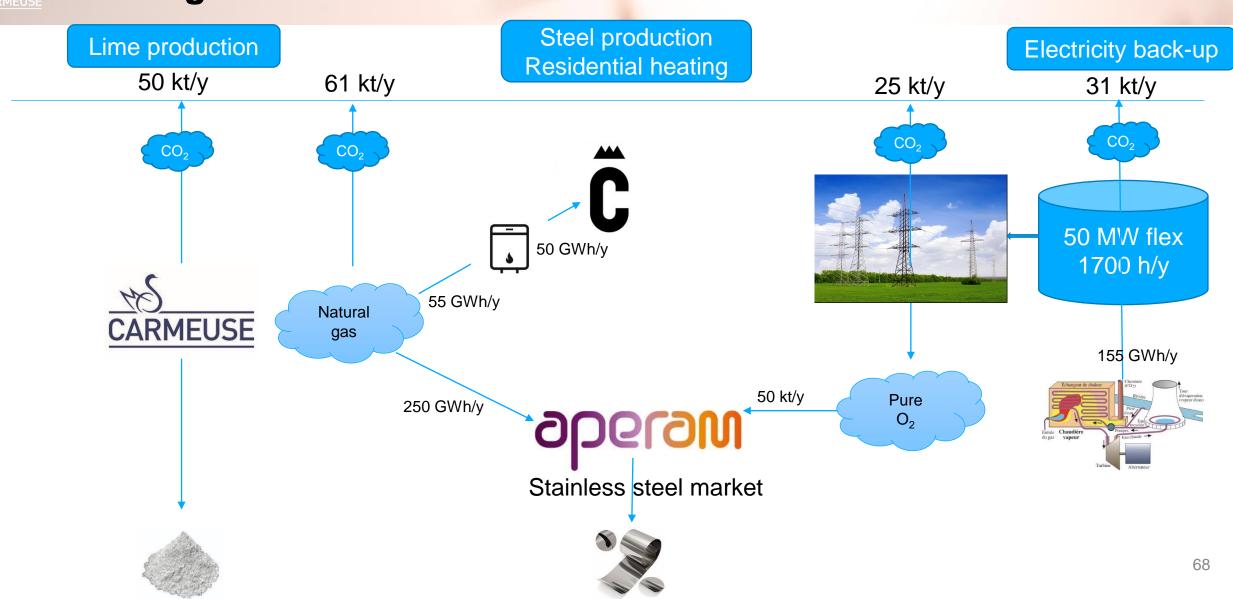
John Cockerill

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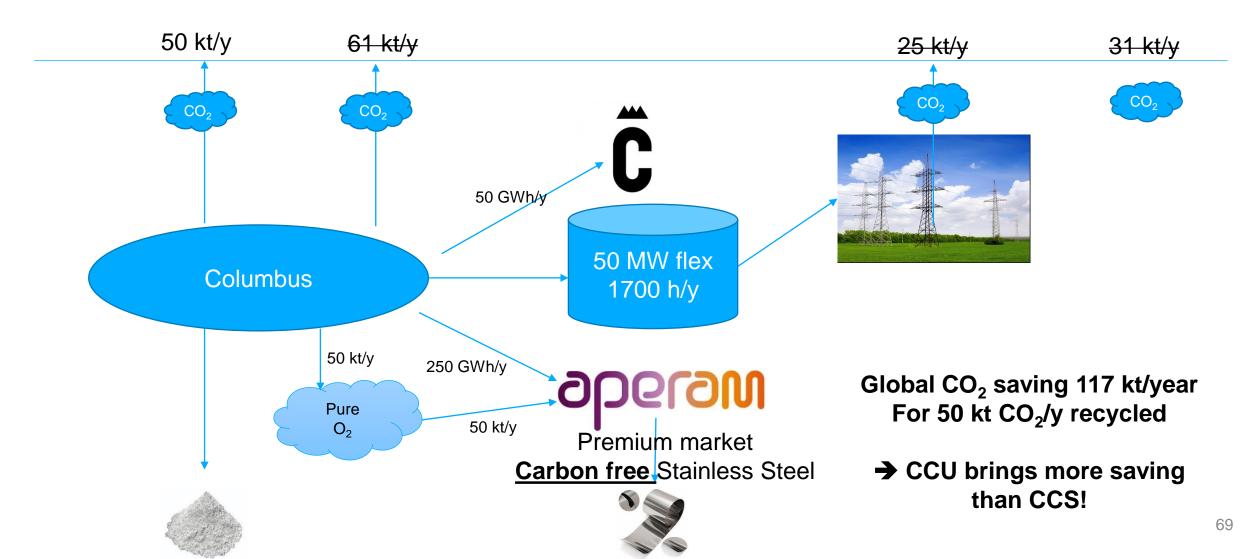
Producing green H2, green lime, and carbon neutral fuel gas (methane)



Contract Current situation Linear Economy







Decarbonizing Walloon Industry

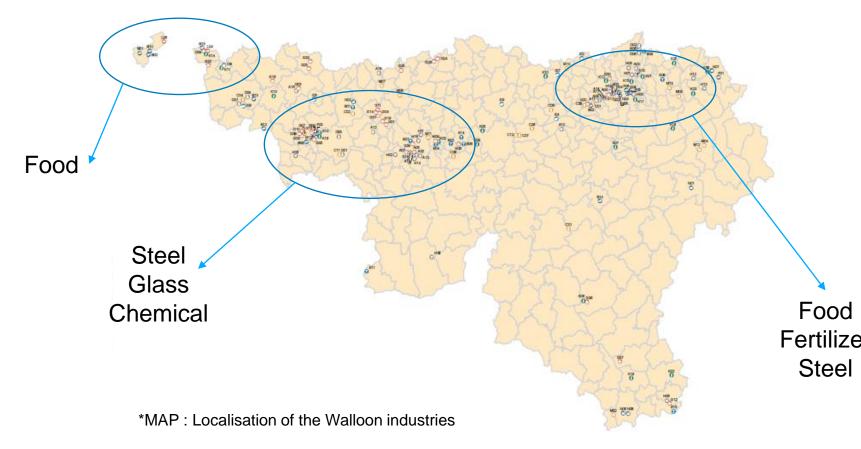
<u>k</u>S CARMEUSE

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engie

Columbus concept can be scaled-up very quickly as premium carbon free product market is increasing.

Walloon industry needs carbon neutral gas.
The Columbus project will produce only 1/50 of this need.
→ Great replicability potential of the Columbus concept.



Methane consumption per sector in Wallonia*

	Steel: Glass:	3,4 TWh/y 2,5 TWh/y
	Chemical: Food: Fertilizer:	1,9 TWh/y 2,5 TWh/y 1,2 TWh/y
ər	Total: Columbus	11,5 TWh/y 0,25 TWh/y

BILAN ENERGETIQUE DE LA WALLONIE 2018

Policy & regulation

Create the market conditions to build the business

- Certification as well as Guarantees of Origin (GOs) for renewable and low-carbon gases
 - E methane must be considered as carbon neutral fuel otherwise Columbus project has no sense.
 - A company using E-methane must be able to valorise the use of carbon neutral fuel to produce a carbon neutral product (e.g. green steel).
- Create adequate regulatory framework
 - Creating a mechanism to secure the investor payback (e.g. contract for difference)
 - Setting up economy-wide renewable gas target comprising both renewable methane and renewable H₂.
 - Possibility to use fuel switch to achieve carbon neutrality.
 - End-use sector-specific targets for renewable H₂/synthetic fuels in transport (complementing the biomethane/biofuels target), for renewable H₂ and other renewable gases in (certain) industries and/or for green products in construction and other sectors (e.g. green steel, green cement, green plastics)

Columbus project

Thank you

daniel.marenne@engie.com







TechTour Investors Club

Investor Insight Session on CCU



Alfred Lam

Vice President





Investor Round Table

ELECTROCHEMICAL CCU INVESTMENT INSIGHTS

Chrysalix Venture Capital

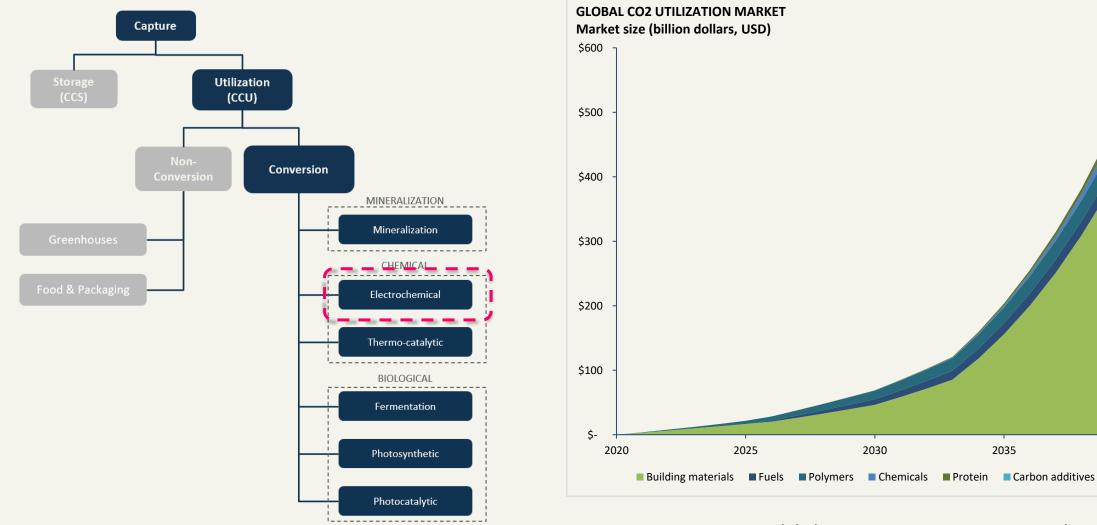
20 YEAR HISTORY OF CLEANTECH & INDUSTRIAL TECH INVESTING

CDV Fund 6100M	Investment Focus		Current & Historical Investors				
CRV Fund - \$100M Decarb Fund - \$150M+	What we wil	I be looking for					
Worldwide investments in early stage startups Image: Construction of the early startup Image: Construction of	Market driven Startups addressing Energy Transition & opportunities; our investor's Step-change		abertachterprise	BALLARD	CATERPILLAR*	CITIGLOUD	Consensus III Burress Grav
		on needs innovation	Credit Suisse	C HYUNDRI	-essent		
	Industries	Technology Scope	Mitsubishi Corporation	PETRONAS	ROBECO	حباب <u>ج</u> چھاھند	Severstal Athen must topthe
	Oil & Gas, Utilities, Metals & Mining, Chemicals,	Decarbonization & Resource Productivity Solutions	🔶		Westcoast Bergy	PEASION PLAN	TOTAL
	Manufacturing Mobility & Construction	Industry 4.0: AI, IoT, sensors, robotics etc.	10 Dent				



CO₂ Utilization Pathways and Applications

FORECASTED TO BE A \$550 BILLION DOLLAR MARKET BY 2040



Global CCS Institute, 2019; Lux Research, 2020 76

2035

2040

Electrochemical CCU – What Makes it Difficult?

OPTIMIZATION OF NON-LINEAR INTERRELATED VARIABLES



Technology Fundamentals Impacting Economics

- Current Density
 - Reaction rates & active area
- Current Efficiency
 - Product yields & post treatment
- Voltage Losses
 - Activation; Ohmic; Mass Transfer
 - Material/Catalysts/polymers
 - Operational conditions (T,P, Conc.)
- Energy Requirements
- Material Durability & Compatibility



Balancing Exuberance w/ Fundamentals WHAT NEEDS TO BE TRUE?

AND/OR

- Low cost electricity
- Carbon pricing
- High fossil/feedstock prices
- High product prices
- Technology Breakthroughs



Chrysalix Venture Capital GETTING IN TOUCH



DR. ALFRED LAM

Partner

Chrysalix RoboValley Fund Delft, Netherlands

alam@chrysalix.com

T +33 (0) 61 3728643



State Tour Investor Club

Break Back at 16:45

IVC Roundtable Deal Syndication Session

Deal Syndication Session



Peter van Gelderen

General Partner

ICOS CAPITAL

Deal Syndication Session



Michael Claes

Senior Technology

Deal Syndication Session



Iliya Bozhkov

Investment Associate



Feedback Survey & Closing Remarks



Radostina Tsenova

Tech Tour Investors Club Manager **Tech**Tour

@TechTour

sustainability

Rotterdam November **2021**

Energy Fransition

Programme Overview

#TTEnergy21 | www.techtour.com/Energy21

TechTour Energy Transition 2021 Hosts & Partners

Hosting Partners





Gold Partners





Bronze Partner

Supporting Partners

Programme Partners

Interreg EXAMPLE Under Control of Contr



InnoRate has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 821518.

CO2 VALUE



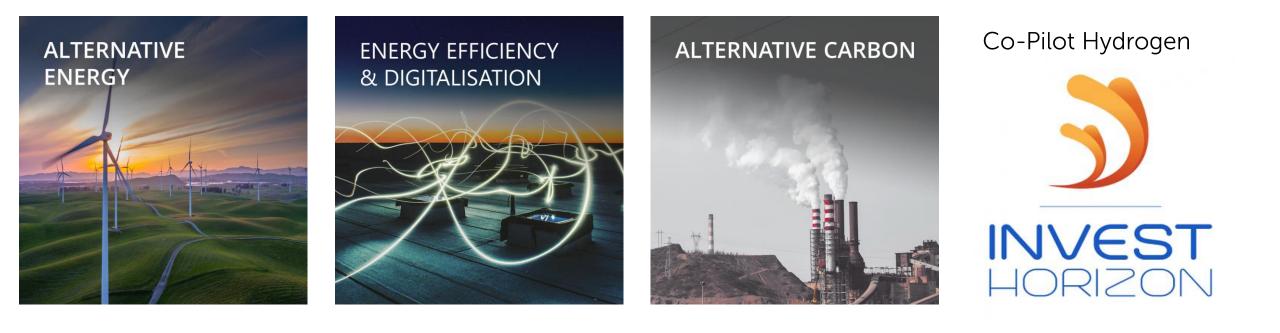
rotterdam

partners

techtour.com/Energy21

TechTour Energy Transition 2021 Tech Tracks

Selection & Pitching Tracks



Online Opening Tour

• On 18.11.2021 – from 09:30 until 11:40 CET

Overview of Hosts, Partners, selected Entrepreneurs and engaged Investors & Partners

Online Pitching Sessions:

• On 08.12.2021 – from 14:00 until 16:00 CET

Tech Tracks: Alternative Energy, Alternative Carbon, Energy Efficiency & Digitalisation

On 09.12.2021 – from 14:00 until 16:00 CET
 Tech Tracks: Alternative Energy, Energy Efficiency & Digitalisation, IH Co-Pilot
 Hydrogen

Tech Tour Energy Transition 2021 Investors (IVC) Round Table 17 Nov 2021

www.iventureclub.com