

**sweet** swiss energy research  
for the energy transition



**ACHIEVE** 

*Pathways to ACHIEVE net-zero target for hard-to-abate Swiss emissions*

Volksabstimmung vom 18. Juni  
2023

OECD/G20-Mindestbesteuerung

Am 18. Juni 2023 haben die Schweizer Stimmberechtigten über das Bundesgesetz über die Ziele im Klimaschutz, die Innovation und die Stärkung der Energiesicherheit (indirekter Gegenvorschlag zur Gletscher-Initiative) abgestimmt.

Ja 59.07%

## **Art. 3** Ziel der Verminderung von Treibhausgasemissionen und der Anwendung von Negativemissionstechnologien

<sup>1</sup> Der Bund sorgt dafür, dass die Wirkung der in der Schweiz anfallenden von Menschen verursachten Treibhausgasemissionen bis zum Jahr 2050 Null beträgt (Netto-Null-Ziel), indem:

- a. die Treibhausgasemissionen so weit möglich vermindert werden; und
- b. die Wirkung der verbleibenden Treibhausgasemissionen durch die Anwendung von Negativemissionstechnologien in der Schweiz und im Ausland ausgeglichen wird.

<sup>2</sup> Nach dem Jahr 2050 muss die durch die Anwendung von Negativemissionstechnologien entfernte und gespeicherte Menge an CO<sub>2</sub> die verbleibenden Treibhausgasemissionen übertreffen.

*Replacing fossil with renewable energy*

**Net Zero CO<sub>2</sub>**  
*Negative CO<sub>2</sub> Emissions*

**by 2050**

*Utilization of existing business  
mechanisms and infrastructure*

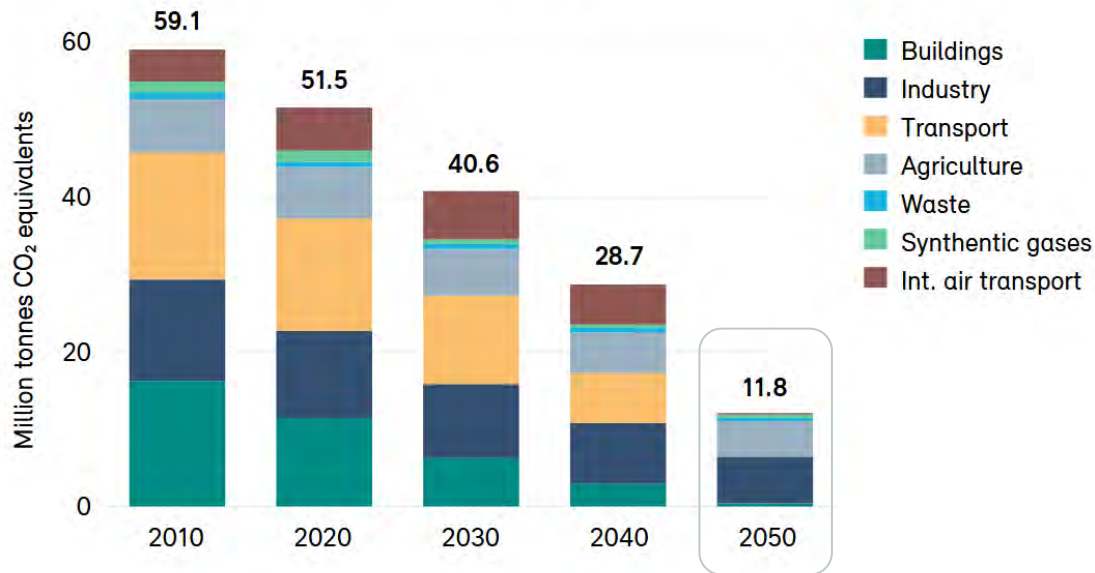
Bundesrat, 28.08.2019

# ACHIEVE at a Glance | Swiss Emissions

## Remaining emissions

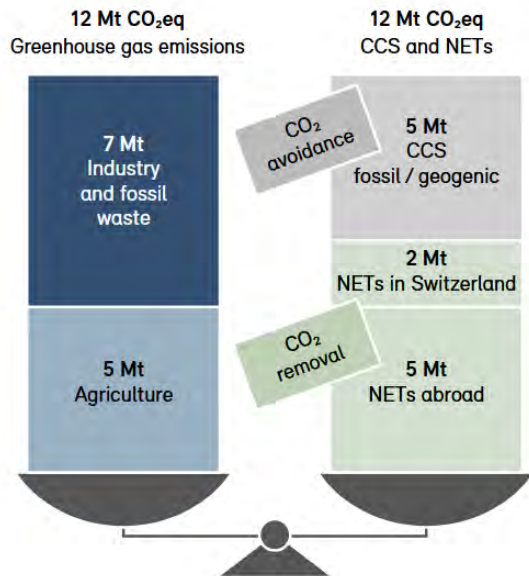
*In 2050, greenhouse gas emissions of around 11.8 million tonnes of CO<sub>2</sub>eq remain.*

*These come largely from agriculture, industry and waste recycling.*



[Factsheet: Long-term climate strategy](#)

# ACHIEVE at a Glance | SWEET



Source<sup>1</sup>

- **Swiss Energy** research for the **Energy Transition** (SWEET) call on Net Zero<sup>2</sup> to answer the question:

How can the remaining emissions be dealt with in practice?

- **ACHIEVE** was selected to address four Research Challenges in an integrated way

# ACHIEVE at a Glance | The 4 Research Challenges (RC)

**1 – Reducing hard-to-abate emissions**

**2 – CCUTS infrastructure pathways**

**3 – Sustainable Swiss biomass contribution**

**4 – Scaling CCS & CDR value chains**



# ACHIEVE at a Glance | Mission & Topics

**ACHIEVE** aims to enable stakeholders to **drive real-world emissions reductions in hard-to-abate sectors** – through integrated tools, actionable insights, and proven strategies.



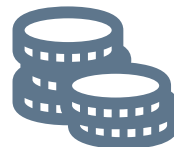
# ACHIEVE at a Glance | Key Figures

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## Total budget

CHF 30,646,250



## SWEET funding

CHF 19,582,000



## Consortium size

- ▶ 29 member institutions
- ▶ 27 collaboration partners



## Project duration

6 years (Dec 2025 – Dec 2031)

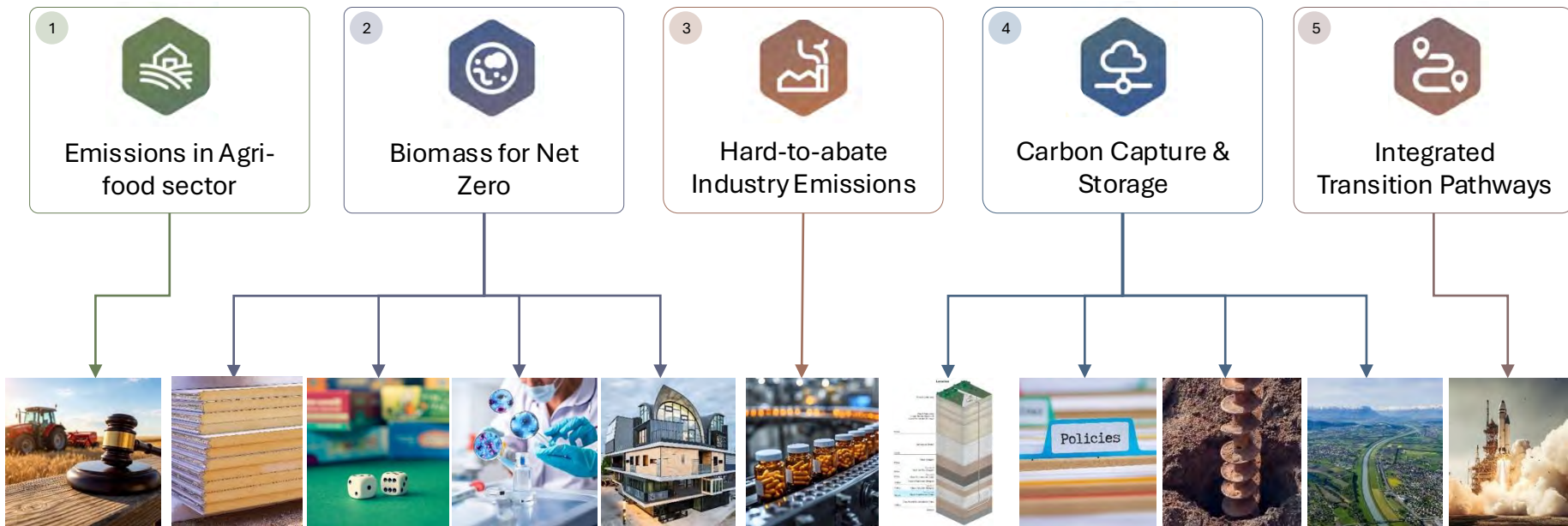


## Work programme

19 work packages (5 research + 3 management + 11 implementation)

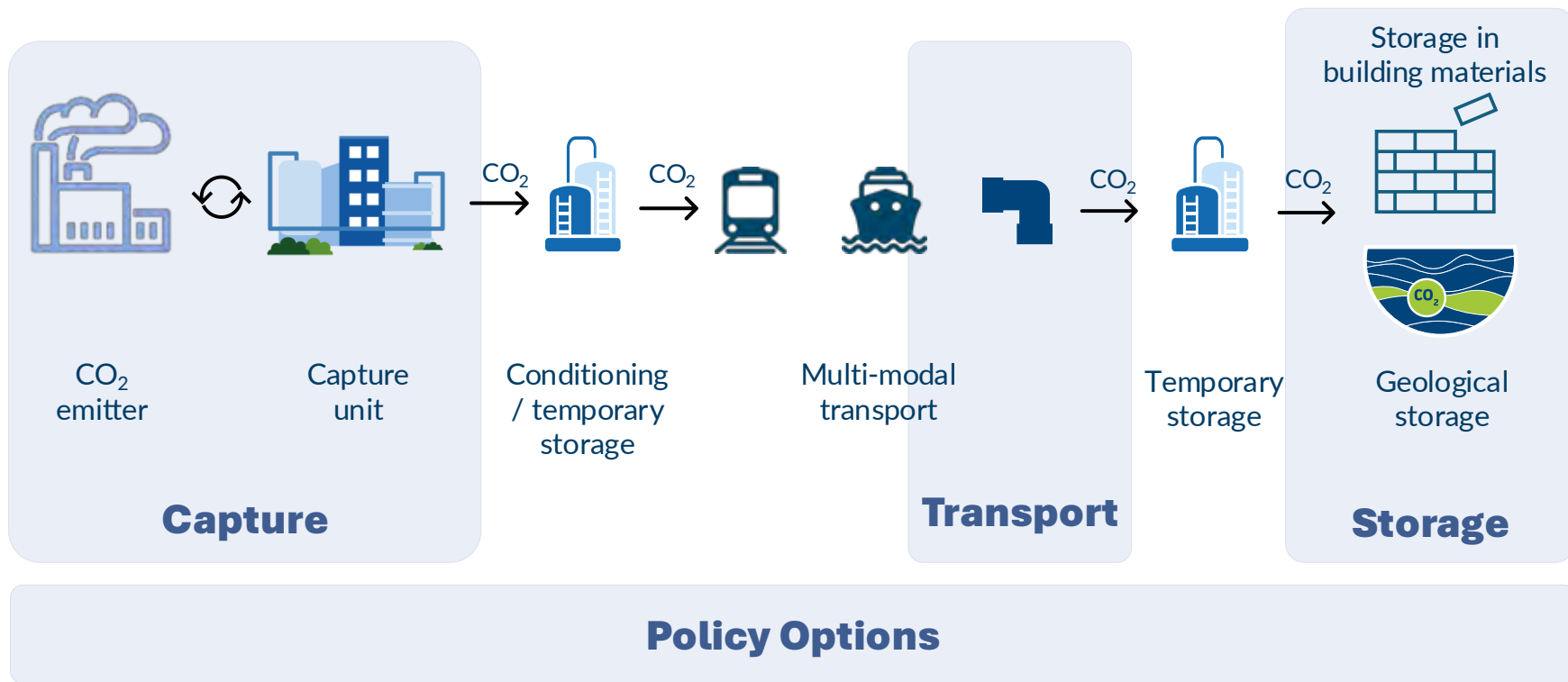
# ACHIEVE at a Glance | What are we working on?

5 Research Work Packages spanning 5 topics



11 Implementation Work Packages spanning the 5 topics

# ACHIEVE at a Glance | CCUTS Highlights



# ACHIEVE | Funding & Partners

ACHIEVE is a consortium funded by the Swiss Federal Office of Energy's SWEET programme and coordinated by Empa, the Swiss Federal Laboratories for Materials Science and Technology. SWEET is a funding programme of the Swiss Federal Office of Energy (SFOE). SWEET's purpose is to fund solution-oriented research and innovations with a focus on the targets of Switzerland's Energy Strategy 2050 and long-term climate strategy.



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

**Swiss Federal Office of Energy SFOE**

## CONSORTIUM MEMBERS & SELECTED PARTNERS

