Confidential

Mining the Atmosphere We Act Now!



June 2024

How Does RECOAL Work?

Three steps

Waste Biomass



Wet waste biomass with the fixed CO_2 is the raw material for the CO_2 removal.

Hydrothermal Carbonization



The wet waste biomass is processed with hydrothermal carbonization (**HTC**) into a **stable hydrochar**.

Geological Storage



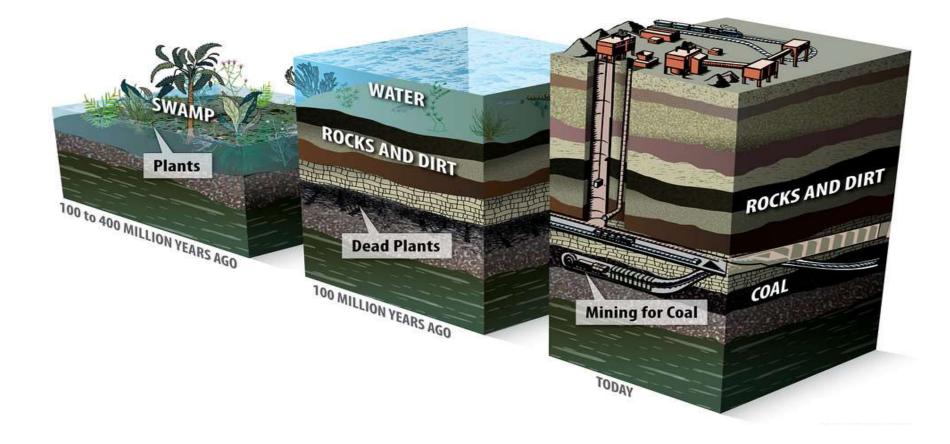
The hydrochar is **geologically stored**. All storage sites are permanently sealed and monitored.



Reverse carbon mining







Source: Let's learn geology; 2023; Coal Formation

Feasibility study of carbon storage - ETH



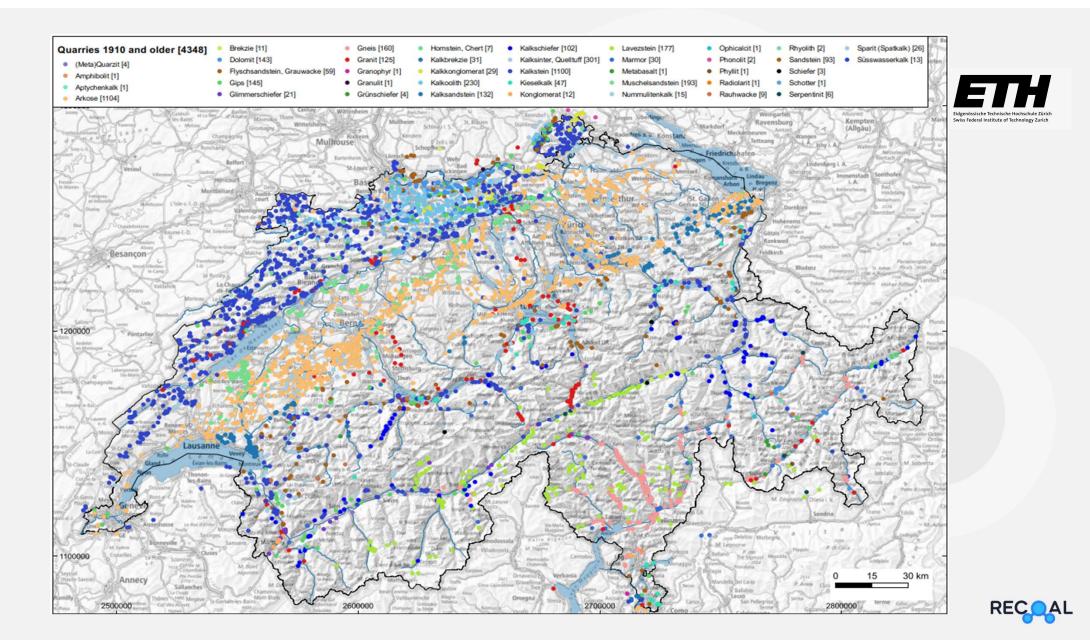
ETH study

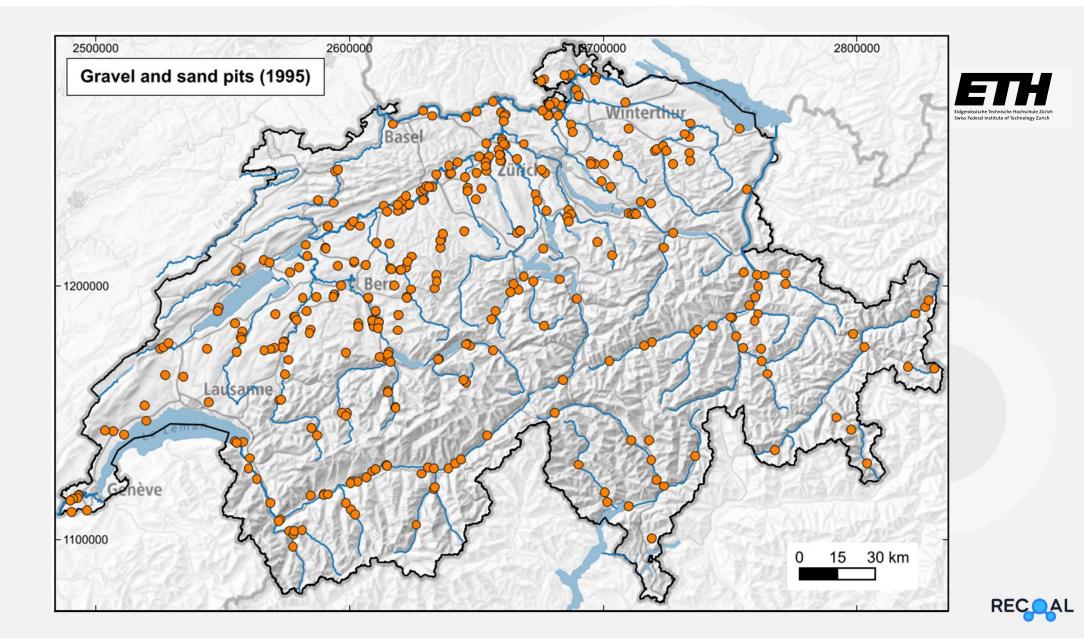
Site evaluation for the long-term storage of hydrochar in Switzerland - A feasibility study

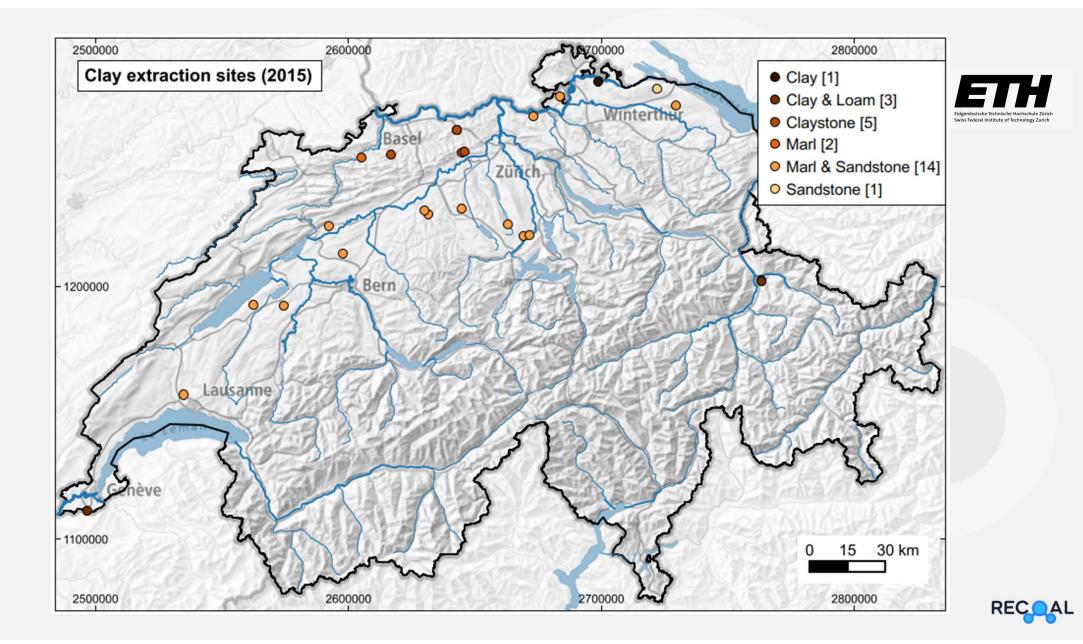


Scenarios for the classification of Hydrochar Target: Classify as a product and not as waste









Feasibility study of carbon storage – TU Delft



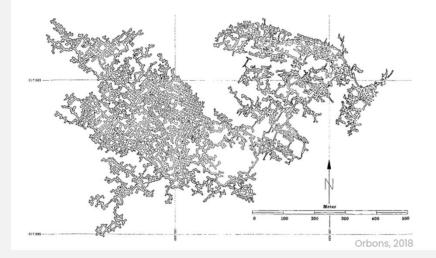
TU Delft study

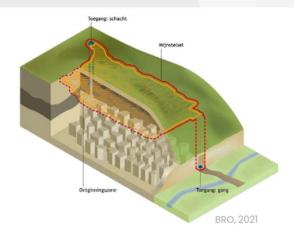
Feasibility of hydrochar storage in the Dutch, shallow and deep subsurfaces

Limestone caves

Total volume < 1 million m³

Cultural heritage and usage







Natuurmonumenten, 2023





TU Delft study

Feasibility of hydrochar storage in the Dutch, shallow and deep subsurfaces

Onshore sandpits

Volume 1-3 million m³ average pit

Dredging material dumping common

Hydrological effect and stability of material?



Location	Volume [10 ⁶ m ³]	Infill [%]
Gamerensche Waars	0.6	84
Veenoordkol	0.6	54
Rosandeplas	1.1	52
Betuweplas	0.8	71
Koornwaard Heukelum	0.5	50
Noorderhoek	0.8	26
Plas Helsingen Vianen	0.2	57
Grote Veenderplas Barneveld	0.3	4

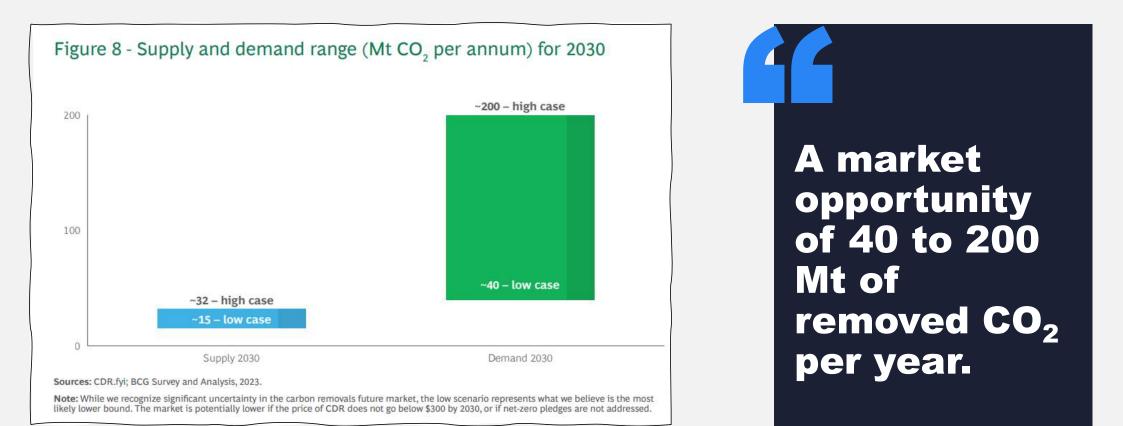






Voluntary Carbon Market (VCM) Outlook 2030

Demand is far greater than supply



REC







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