

CO₂

“From Waste to Acid / Asset”

Request for support

Pitch at Autumn Session
PIN NL

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Objectives

- Sustainable CO₂ sequestration
- “Scalable” Reactor design
Market size
- Economic ~~CO₂~~
Valorization end-product
Energy production

Olivine:

Process:



Olivine:

Process:



Mass balance:

1 ton	1,6 ton	1,9 ton	0,7 ton	-2,7 GJ/
ton CO2				

Olivine:

Process:



Massa balance:

1 ton	1,6 ton	1,9 ton	0,7 ton	-2,7 GJ/
ton CO2				

Product value:

-€5/ton	€ 30/ton	-€40/ton	-€200/ton	??
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Olivine:

Process:



Massa balance:

1 ton	1,6 ton		1,9 ton	0,7 ton	-2,7 GJ/
	ton CO2				

Financial:

-€5/ton	€ 30/ton	-€40/ton	-€200/ton	??
-€ 5	+€ 45	- € 75	-€ 135	- €??



Applications

- **Concrete:** Pozzolanic
Fine particles Cement replacement
Packing density
- Paper Functional Filler Color, Particle Size
- Coating Functional Filler
- ? ?

Questions

- Markets / Sectors
- More applications
- Above ground / below ground installation
- Investors assurance:
 - Theory
 - Lab scale
 - Pilot plant
 - Demo plant
 - Full scale unit