

General information

Remover name	GoGreenSalt		
Project code	GGSR001		
Project name	GoGreenSalt - Jos Scholman		
Location	Utrecht		
Area			
Year	2025		
Duration	>10.000	years	estimated permanence of removal and storage
Material dosage	992	ton	GoGreenSalt tonnage
Holding buffer	20%		freed up when measurements confirm projection pathways
Project emissions	0.069	tCO2eq/ton	LCA estimate

Per project

Projected storage	128	tCO2	storage potential for 100 years
LCA emissions	69	tCO2	project related emissions
Net storage potential	59	tCO2	project storage -/- emissions over 100 years

Removal credits issued

Holding buffer	12	credits
Credits issued	47	credits

Material description				
Material type	Olivine			
Material name	Halfverharder GreenSand, fraction 0-6 mm, Olivine			
Material dossage	992	ton		
Material origin	Spain			
Percentage olivine of total feedstock	25%			
Ton olivine	248			
Properties				
Magnesium percentage	39%			
Grain size distribution	< 5.6	mm	100%	
	<4	mm	99.90%	
	< 2	mm	98.50%	
	< 1	mm	66.90%	
	< 0,5	mm	30.10%	
	< 0,25	mm	12.90%	
	< 0,063	mm	1.80%	

Carbon Calculation for		GGSR001							
The following values are calculated with the Vink&Knops model (Vink & Knops, 2023; see https://doi.org/10.3390/min13020235)									
Duration	Erosion	Olivine	dissolved (cumulative)	CO2 sequestered	Weathering	Olivine			
(year)	rate		(kg) (%)	(kg)	(ton)	(um/yr)	Dissolved (/yr)		
	(um)						(kg/yr)		
30	25.72	75,643	30.5%	64,448	64	0.86	1,773	1,773	
100	85.72	150,404	60.60%	128,145	128	0.86	951	951	

Sources				
Location dependant value				
	DOC	60.000	Dissolved Organic Carbon	Assumption Diss https://doi.org/10.3390/min13020235
	pH value	5.50		pH of rainwater https://www.knmi.nl/kennis-en-datacentrum/uitleg/zure-regen
	Rate	0.85	kg CO2/kg Olive	Afh. Olivijn samenstelling (100% Forsteriet)
	Olive	25%	off total feedstock	Hoeveelheid olivijn aan mengsel (m/m)
	Dosage GoGreenSalt	992	ton	
	Dosage olive	248		
	Magnesium percentage	39%		

Life Cycle Assessment					
Source	https://drive.google.com/file/d/13QdsjrjMHAq837Mw1DHuALy5Raz_E-23/view?usp=drive_link				
Declared unit		1	ton		
	A1-A3	A4	A5		
GWP (kg CO2eq) GoGreenSalt	5.02E+01	1.37E+01	5.27E+00		
Total GWP GoGreenSalt	69.170000	kgCO2eq / t material			
Total GWP	0.0692	tCO2eq/ton			