

General information

Remover name	KZ Aanneming & Groenvoorziening B.V.		
Project code	GGS-R-002		
Project name	GoGreenSalt - Jos Scholman		
Location	Middenmeer, The Netherlands		
Area	-		
Year	2026		
Duration	>100	years	estimated permanence of removal and storage
Material dosage	26	ton	GoGreenSalt tonnage
Holding buffer	20%		freed up when measurements confirm projection pathways
Project emissions	0.000	tCO2eq/ton	

Per project

Projected storage	2.61	tCO2	storage potential for 100 years
LCA emissions	0	tCO2	project related emissions
Net storage potential	2.61	tCO2	project storage -/- emissions over 100 years

Removal credits issued

Holding buffer	0.52	credits	
Credits issued	2.09	credits	

Material description				
Material type	Olivine			
Material name	Halfverharder GreenSand, fraction 0-6 mm, Olivine			
Material dossage	26	ton		
Material origin	Spain			
Percentage olivine of total feedstock	25%			
Ton olivine	6.5			
Properties				
Magnesium percentage	50%			
Grain size distribution	<1.40 mm	mm	14%	
	< 1.00 mm	mm	37.20%	
	< 0.71 mm	mm	28.80%	
	< 0.5 mm	mm	11.10%	
	< 0.355 mm	mm	4.80%	
	< 0.250 mm	mm	2.10%	
	< 0.180 mm	mm	0.8 %	
	< 0.125 mm	mm	0.5 %	
	< 0.090 mm	mm	0.3 %	
	< 0.063 mm	mm	0.2 %	
	< PAN mm	mm	0.10%	

Carbon Calculation for		GGS-R-002					
The following values are calculated with the Vink&Knops model (Vink & Knops, 2023; see https://doi.org/10.3390/min13020235)							
Duration	Erosion rate	Olivine dissolved (cumulative)	CO2 sequestered	Weathering	Olivine Dissolved (/yr)		
(year)	(um)	(kg) (%)	(kg) (ton)	(um/yr)	(kg/yr)		
30	25.72	1,136 17.5%	968 0.97	0.86	34		
100	85.72	3,067 47.2%	2,613 2.61	0.86	26		

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/uitgevoerde-research/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	26	ton	
	Dosage olive	6.5		
	Magnesium percentage	50%		

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				