

Project Model summary for BIN-N01-M01

General information

Project code	BIN-N01-M01		
Project name	Boer in Natuur Maashorst 1		
Location	Slabroek, Maashorst, Netherlands		
Area	24,4	ha	
Duration	12	years	
Holding pool	20%		freed up when measurements confirm projection pathways
Project emissions	20%	LCA estimate	High emissions due to peatland soil with low water level

Total Ecosystem Carbon (TEC)

Baseline TEC	290	tCO2/ha	Above Ground, Below Ground and Soil Organic Carbon, following CDM AR-ACM0003 between 14 and 23g/kg from certified measurements
Projection TEC	695	tCO2/ha	Using CEDA, Soil sample and research data
Construction Stored Carbon	not yet included		Certificates to be modeled and issued separately

Storage potential **405** tCO2/ha Projection +/- baseline

Yearly storage potential **20** tCO2/ha/y

Project storage potential	9.871		storage potential per ha x area
Net storage potential	7.897		project storage +/- emissions over 20 years

Holding Pool	948		20% of the first 12 years
Ex ante CRCs issued	3.790		80% of the first 12 years

Field Code	Field name	Size (ha)	Farmer	Owner	Ownership cont KML	
BIN-N01-M01	Heggenlandschap	18,1	Boer in Natuur	FNS		
BIN-N01-M02	Laag Voedselbos	3,0	Boer in Natuur	FNS		
BIN-N01-M03	Multifunctioneel Bos	2,3	Boer in Natuur	FNS		
BIN-N01-M04	Sparrenbos naar Multifunctioneel Bo	1,0	Boer in Natuur	FNS		

[illegible]

from C to CO2	3,666666667		
soil density [3]	% organic matter	% organic carbon	soil density
1,59	0,5	0,25	1,59
1,52	1,5	0,75	1,52
1,45	2,5	1,25	1,45
1,39	3,5	1,75	1,39
1,34	4,5	2,25	1,34
1,29	5,5	2,75	1,29
1,24	6,5	3,25	1,24
1,18	7,5	3,75	1,18
1,13	8,5	4,25	1,13
1,09	9,5	4,75	1,09
1,05	10,5	5,25	1,05
1,01	11,5	5,75	1,01
0,96	12,5	6,25	0,96
0,93	13,5	6,75	0,93
0,9	14,5	7,25	0,9
0,87	15,5	7,75	0,87
0,84	16,5	8,25	0,84
0,81	17,5	8,75	0,81
0,79	18,5	9,25	0,79
0,77	19,5	9,75	0,77
0,75	20,5	10,25	0,75
0,73	21,5	10,75	0,73
0,71	22,5	11,25	0,71
0,7	23,5	11,75	0,7
0,69	24,5	12,25	0,69
0,67	25,5	12,75	0,67
0,65	27	13,5	0,65
0,62	29	14,5	0,62
0,6	31	15,5	0,6
0,58	33	16,5	0,58
0,56	35	17,5	0,56
0,54	37	18,5	0,54
0,52	39	19,5	0,52
0,5	41	20,5	0,5
0,49	43	21,5	0,49
0,47	45	22,5	0,47
0,46	47	23,5	0,46
0,44	49	24,5	0,44

size (ha)	date	Field CO2	SOC (g/kg from samples)	ICO2/ha	Reference	Reference CO2
24.4		11 591.36	19.7	284.57	36	421.04
		5.038				
20%		4.030				
20 years to get to		202				
		11				
size (ha)	date	Field CO2	AG			
24.4		4 969.35				
		4.833				
20%		3.866				
20 years to get to		193				
		10.68				
12		4.738				
20%		948				
		3790.440192				

Issued Credits, Total Carbon, Eligible Carbon and Baseline Carbon

Year	Baseline Carbon	Eligible Carbon	Total Carbon	Issued Credits
2020	8283	427	931	5038
2028	8676	614	1471	4030
2030	9069	800	1471	202
2032	9462	987	2552	11
2034	10661	1326	3049	
2036	10991	1488	3529	
2038	11321	1650	4008	
2040	11651	1812	4488	
2042	11981	1974	4968	
2044	11981	1974	4968	
2046	11981	1974	4968	
2048	11981	1974	4968	
2050	11981	1974	4968	

[1] <https://edepot.wur.nl/7621>

[2] in 20 years but INCLUDING avoided emissions + REDD+ so baseline is degradation?

[3] <https://edepot.wur.nl/7621>

[4] A critical review of the conventional SOC to SOM conversion factor (Geoderma, Volume 156, Issues 3–4, 15 May 2010, Pages 75-83)