

## Survey on national/local plans allocating resources for soil management practices that include the utilisation of compost

## Introduction

In order to point out the key aspects of national or local policies put in place so far to stimulate the adoption of good land management practices aimed at preserving soil health and fertility, that include the reintegration of organic matter by means of compost, we have collected and analysed some of the most significant incentivising schemes adopted in some Member States, here shortly summarised.

The following case studies were considered:

- Local humus build-up CarboCert (Germany, GE1)
- RETERRA CarboSoil (Germany, GE2)
- Healthy Soils for Healthy Food (Austria, AU1)
- Humusprojekt (Ökoregion Kaindorf, Austria, AU2)
- Utilisation of organic fertilisers in place of mineral fertilisation (Italy, Region Piedmont, IT)
- French Carbon Standard CARBON AGRI (France, FR)



## **Organic Farming Schemes**

The schemes are equally divided into public and private funded initiatives, mostly still active (or about to end), and all of them address farmers as the beneficiaries (in the GE2 case, organic soil improvers issuers are possible beneficiaries as well).

Despite all these schemes are focussed on the return of organic matter to soils and can thus be considered as "carbon farming" initiatives, some differences emerge; while some of them (GE2, FR, AU2) are specifically aimed at offsetting CO<sub>2</sub> emissions to the atmosphere through the storage of organic carbon in soils, other ones put the emphasis on other aspects, such as the replacement of mineral fertilisers (IT) or the improvement of soil health through the commitment of farmers in adopting good agronomical practices (AU).

Since the effects of the use of compost can be observed on the medium-to long-term, all the schemes are long lasting (5 years, with possible monitoring of soil beyond the end of the program, in order to assess the evolution of organic matter). At least two schemes (AU, GE, AU2) include a specific training to farmers, so to make them aware of the importance of soil organic matter and the agricultural practices that are "soil friendly".

The rewarding of the schemes analysed can either depend on the results obtained or on the simple adoption of a list of activities foreseen by the agreement between farmers and the scheme manager. In the first case (FR, GE, AU2), farmers are paid in proportion to the amount of organic carbon (or effective organic matter) they have stored in their soils along the duration of the activity. It is more interesting to note that some schemes (AU, IT) acknowledge the simple commitment of farmers in making specific actions in favour of soil health, according to an undersigned agreement between the parties (in one case, the scheme manager is a public entity, Region Piedmont: in the other one a private company, the Spar supermarket chain).





Depending on the rewarding approach (results or activities based) the paying methods are different:

- Obtainment of carbon credits that are purchased to the farmer by the scheme management entity at a price in line with the market of the Emission Trading Schemes (accounted as per tonne of CO<sub>2</sub> offsets);
- Purchase of the vegetables cultivated at a price higher than their market value, taking in account the additional efforts made by farmers;
- Fixed payment per cultivated surface (€/ha) that has been managed according to the good agricultural practices and replacing mineral fertilisers with compost.

In one case (GE2) the reward does not consist in a monetary payment, but in the assignment of a label that certifies the commitment of the farmer to a proper soil management, and a calculation of the amount of humus stored in soil.

A monitoring activity is foreseen by all the schemes. In one case (IT), the monitoring is based on records that must be kept by farmers through random inspections; the other schemes include the periodical sampling and analysis of soil by independent qualified inspectors until the end of the program, basically to evaluate the evolution of soil organic matter (or the effective organic matter).

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**About the European Compost Network (ECN)** 

The European Compost Network (ECN) is the leading European membership organisation promoting sustainable recycling practices by composting and anaerobic digestion of organic resources and guarding over the quality and safe use of the recovered organic fertilisers and soil improvers. With 68 members from 27 European Countries ECN represents more than 4500 experts and plant operators with more than 45 million tonnes of biological waste treatment capacity.

## Summary tables of the case studies collected

	AU	FR	GE1	GE2	IT	AU2
Managing authority	SPAR supermarket	French Government	CarboCert GmbH	RETERRA-CarboSoil	Region Piedmont	Ökoregion Kaindorf
Type of managing authority	private	public	private	private	Public	public
Status on 31/12/2020	still active	still active	still active	still active	still active	n.a.
Beneficiary	farmers growing vegetables	bovine cattle or cash crop farmers	farmers, issuers	farmers	farmers	farmers

	AU	FR	GE1	GE2	IT	AU2
Main goal	Soil	Carbon	Local humus	Promotion of organic	Promotion of organic	Increase of organic
	conservation	reduction in	built up	fertlization	fertlization	matter in soils
		atmosphere,		Improvement of farmers	Increase of organic	
		climate change		reputation.	matter in soils	
		mitigation		Calculation of Carbon		
				storage for emission trading		
Short	Support,	Emission	Calculation of	Calculation and statement of	Farmers are awarded for	Actions to increase
description	training and	reduction	humus build up;	Carbon build-up	replacing mineral	good quality organic
	rewards to	credits related	release and	or binding through	fertilizers with organic	matter.
	farmers.	to good	purchase of	compost;	fertilizers	The role of compost is
	SPAR buys the	agricultural	Carbo-	Training to farmers		considered important.
	final crops	practices.	Certificates	Label		Knowledge
		Long term				dissemination and
		assessment (5				coaching of farmers
		years) of the				
		retained humus				

	AU	FR	GE1	GE2	IT	AU2
Eligibility criteria	All farmers that	Projects with additional	none	RETERRA compost users	Ranking based	n.a.
	grow vegetables	climate mitigation			on soil	
		actions than simply			classification	
		following current/legal			score	
		practice				
Financing	Activities based.	Results driven (CO <sub>2</sub>	Results driven	Based on both farming	Based on	Results based
approach	Currently, price	savings per production	(positive changes in	practices and results	farmer's	
	increase per	unit or, in case of carbon	soil organic carbon	(carbon stored)	management	
	product unit,	storage, per exploitation	content)		practices	
	based on the	unit)				
	additional effort					
	associated with					
	soil friendly					
	production.					

	AU	FR	GE1	GE2	IT	AU2
Monitoring	Soil samples during	Action plan review	By an independent	Calculations	Based on records	n.a.
	5 years by an	and calculation	institute	carried out by	and random	
	independent	through a tool		qualified	inspections	
	specialist			RETERRA		
				technicians		
Rewarding criteria	Bonus to the	Credits per net ton	Carbon	Training and label	Incentive paid by	Carbon credits
	farmers	of CO <sub>2</sub> avoided	sequestration	for marketing	the managing	
			certificate	purposes	authority	
Rewarding details	n.a.	Credits given after 5	€45 /t CO2 as	No monetary	From €180 to €300	€ 45/ton CO <sub>2</sub> , of
		years and traded for	certificate for issuer	payments	per hectare on a	which € 30 to the
		payments	(2/3 of the price		yearly basis	farmer and € 15 for
			goes to the farmer)			scheme
						management
						(including sampling
						analysis, etc.)