



Mitigazione del Cambiamento Climatico: il Contributo di Agricoltura e Foreste

CONVEGNO | 6 – 7 OTTOBRE 2022

Aranciera dell'Orto Botanico, Largo Cristina di Svezia 24 , Roma e piattaforma **GoToWebinar**

Mercato del carbonio da attività agricole e forestali: gli impatti delle nuove politiche

Davide Pettenella, Giorgia Bottaro,
Giulia Corradini, Aynur Mammadova

Organizzazione della presentazione

- Il settore primario: la gamma di attività in grado di generare quote di carbonio
- I due mercati
 - Il mercato «*compliance*»
 - Il mercato volontario
- Le dinamiche in atto

Le slides possono essere scaricate dal web (cerca con “pettenella”)

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Attività per la generazione di quote di carbonio

Da:

- Fissazione di carbonio nella biomassa, nel suolo, nei prodotti
- Riduzione delle emissioni da attività BaU nel settore primario

Foreste	Altre opzioni <i>land-based</i>	Agricoltura
REDD+	Agroforestry	Sustainable Agriculture
Blue Carbon	Peat management	Livestock methane
Afforestation/Reforestation/Revegetation	...	Grassland/ Rangeland Management
Avoided Forest Conversion		Nitrogen management
Improved Forest Management		Soil carbon
Urban Forestry		...
Soil Carbon		
...		

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Compliance

Mandatory
(istituzionale)

ERU-CER

Emission Reduction Unit Certified Emission Reduction

UN and Government Standards:



Clean Development Mechanism
(CDM)



Joint Implementation (JI)

Voluntary

VER

Verified Emission Reduction

Standard	Sito internet	Logo
VCS-Verra	https://verra.org/	
The Gold Standard	https://www.goldstandard.org/	
CCB	www.climate-standard.org	
Plan Vivo	www.planvivo.org	
Carbon Fix	www.carbonfix.org	
Social Carbon	www.socialcarbon.org	
Climate action reserve	www.climateactionreserve.org	

Fonte: <https://www.icroa.org/>

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Il settore primario nei mercati istituzionali

- Investimenti in campo forestale sono inclusi nei mercati (*emission trading*) della **Nuova Zelanda, Australia e California**
- Nell'**EU**:
 - I progetti di *afforestation, reforestation* e (dopo l'Accordo di Parigi) REDD+ nei PVS possono generare crediti
 - Il mercato delle quote (**European Trading Scheme** - ETS) esclude le attività di generazione crediti del settore primario

Perchè il settore primario non è stato inserito nell'ETS (il mercato UE delle transazione di quote)?

*“They (i.e., forest activities when used to generate C credits) do not bring **technology transfer**, they are inherently **temporary and reversible**, and **uncertainty** remains about the effects of emission removal by carbon sink” (CE, 2003)*

Official: EU taking first steps to bring forestry into carbon market

By Frédéric Simon | EURACTIV.com

📅 22 ott 2020 (updated: 📅 23 ott 2020)



"If the standard is good enough and one can be sure that a tonne is tonne, then we might be able to treat (carbon credits) like an emission allowance under the ETS," says Artur Runge-Metzger. [Friends of Eur

<https://www.euractiv.com/section/energy-environment/interview/official-eu-taking-first-steps-to-bring-forestry-into-carbon-market/>

Questa posizione è cambiata

INTERVIEW HIGHLIGHTS:

- "Every tonne" of carbon dioxide in EU forests has to be counted, reported and monitored
- The European Commission is looking at "carbon farming" to encourage farmers to uptake carbon in soils or vegetation
- The European Commission is working on a certification system for carbon removals that should be ready "by 2023"
- Certificates will be issued for each tonne of carbon dioxide stored in forests or agricultural land
- But if a forest goes up in flames, the corresponding certificate will have to be cancelled
- Forests could be brought under the ETS once the certificate is robust enough

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- Il mercato volontario è costituito prevalentemente da **soggetti privati**
- Il principale *driver* sono le imprese che hanno **impegni di riduzione** delle emissioni, ma anche organizzazioni e private cittadini

Impegni di imprese e organizzazioni verso la carbon neutrality



<https://climatechampions.unfccc.int>

Business Ambition for 1.5°C

Business Ambition for 1.5°C is an urgent call to action from a global coalition of UN agencies, business and industry leaders. It's calling on companies to commit to set ambitious science-based emissions reduction targets. By setting a net-zero target in line with a 1.5°C future, businesses can make their critical contribution to limiting the worst impacts of climate change.

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The Climate Pledge

The Climate Pledge is a call to business and organizations to take collective action on the world's greatest crisis and to work together to build towards a safe and healthy planet for the next generations.

[VIEW MORE](#)

Certified B Corporation

B Lab is transforming the global economy to benefit all people, communities, and the planet. A leader in economic, systemic change, our global network create standards, policies, tools, and programs for business, and we certify companies—known as B Corps—who are leading the way. To date, our community includes over 4,000 B Corps in over 70 countries and 100 industries, and over 300,000 companies manage their impact with the B Impact Assessment and the SDG Action Manager.

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Exponential Roadmap Initiative

The Exponential Roadmap Initiative is for innovators, planners and disruptor taking action in line with 1.5°C, with the mission to halve emissions before 2030 through exponential climate action and solutions. It is an accredited partner of United Nations' Race to Zero, TED Countdown and a founding partner of the 1.5°C Supply Chain Leaders and the SME Climate Hub. It is a non-profit, independent actor anchored in the latest climate science.

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SME Climate Hub

The SME Climate Hub provides small and medium-sized businesses with a one-stop-shop to make a climate commitment and access best-in-class tools and resources to mitigate their environmental impact and build business resilience. Taking climate action through the SME Climate Hub helps small businesses accelerate business growth, build supply chain resilience, align with shifting governmental policy and consumer expectations, and strengthen marketing and branding efforts.

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Business Declares

Business Declares is a not-for-profit organization formed by senior leaders with a vast range of experience from the SME, B Corp and FTSE100 sectors. We are official members of the UN Race to Zero team for COP26. We believe that business has a major part to play in tackling the climate, ecological and social emergency.

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Pledge to Net Zero

The 'Pledge to Net Zero' has therefore been established to commit organisations from the environmental sector to take a leadership role in the transition to a net-zero carbon economy. Pledge signatories commit to set and commit to deliver a greenhouse gas target in line with either a 1.5°C (encouraged) or well below 2°C climate change scenario covering buildings and travel as a minimum.

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CBN Expert community

CBN Expert groups businesses the tools and insight they need to calculate, measure and track their carbon footprint.

[VIEW MORE](#)

PlanetMark

PlanetMark is a sustainability certification for every type of organization, for real estate and for products. The certification recognizes continuous improvement, encourages action and builds an empowered community of like-minded individuals who make a world of difference.

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Tech Zero

Tech Zero is a group of innovative UK tech companies, working together to fight the climate crisis, accelerate progress to net zero and help consumers make greener choices.

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United Nations Environment Programme Finance Initiative (UNEP FI)

UNEP FI is a partnership between UNEP and the global financial sector to mobilize private sector finance for sustainable development. UNEP FI works with more than 400 members—banks, insurers, and investors—and over 100 supporting institutions—to help create a financial sector that serves people and planet while delivering positive impacts.

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UN-Covenanted Net Zero Banking Alliance

The industry-led, UN-covenanted Net Zero Banking Alliance brings together over 50 banks representing almost a quarter of global banking assets, which are committed to aligning their lending and investment portfolios with net-zero emissions by 2050.

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Net Zero Asset Managers Initiative

The Net Zero Asset Managers Initiative is an international group of asset managers committed to supporting the goal of net zero greenhouse gas emissions by 2050 or sooner, in line with global efforts to limit warming to 1.5 degrees Celsius, and to supporting investing aligned with net zero emissions by 2050 or sooner. The initiative is global, both in the six founding network partners—the four regional investor networks, ACCC, Ceres, ICCC and IGCC, as well as PRI and CDPI—and its signatories.

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UN-Covenanted Net-Zero Asset Owner Alliance

Founded in September 2019 at the UN Secretary General's Climate Action Summit by Allianz, Cassa di Risparmio di Parma e Banca POP, La Caixa de Ahigat et placement de Québec, ICDPQ, Folkvorn Group, PensionDanmark, and SwissLife, the Net-Zero Asset Owner Alliance is convened by UNEP's Finance Initiative and the Principles for Responsible Investment.

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Paris Aligned Investment Initiative (PAII)

The Paris Aligned Investment Initiative is a collaborative investor-led global forum enabling investors to align their portfolios and activities to the goals of the Paris Agreement. The initiative is supported by four regional investor networks—IGCC (Asia), Ceres (North America), ICCC (Europe) and IGCC (Australia).

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Under 2 Coalition

The Under2 Coalition is a global community of state and regional governments committed to ambitious climate action in line with the Paris Agreement. It brings together over 220 governments representing more than 1.5 billion people and 43% of the global economy.

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Japan Climate Initiative (JCI)

JCI is a network committed to strengthening communication and exchange of strategies and solutions among all actors that are implementing climate actions in Japan.

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Race to Zero for Universities and Colleges

Race to Zero for Universities and Colleges is a collaboration between UNEP, EAUC and beyond features. By joining the Race to Zero, Universities and Colleges demonstrate both the higher and further education sector's commitment to the net zero agenda as well as their institution's leadership on a global level at COP26.

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Fashion Industry Charter for Climate Action

Under the auspices of UN Climate Change, fashion stakeholders worked during 2018 to identify ways in which the broader textile, clothing and fashion industry can move towards a holistic commitment to climate action.

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Healthcare Without Harm

Health Care Without Harm works to transform health care worldwide so that it reduces its environmental footprint, becomes a community anchor for sustainability and a leader in the global movement for environmental health and justice.

[VIEW MORE](#)

Water UK

As a sector that is rooted in the environment, the water industry is committed to playing its part in tackling the threat of climate change and limiting the rise of global temperatures to 1.5°C. Water UK will help companies navigate that net zero journey.

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International Wineries for Climate Action (IWCA)

The International Wineries for Climate Action (IWCA) is a collaborative working group of environmentally committed wineries focused on a science-based approach to reducing carbon emissions across the wine industry. Each member within IWCA takes responsibility to hold ourselves and each other accountable to build a clearer, more resilient wine community for future generations.

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Cities Race to Zero

Cities Race to Zero has a goal of recruiting 1000 cities to the Race to Zero, in support of the COP26 Roadmap of Local Governments and Municipal Authorities (LGMMA) Constituency to the UNFCCC.

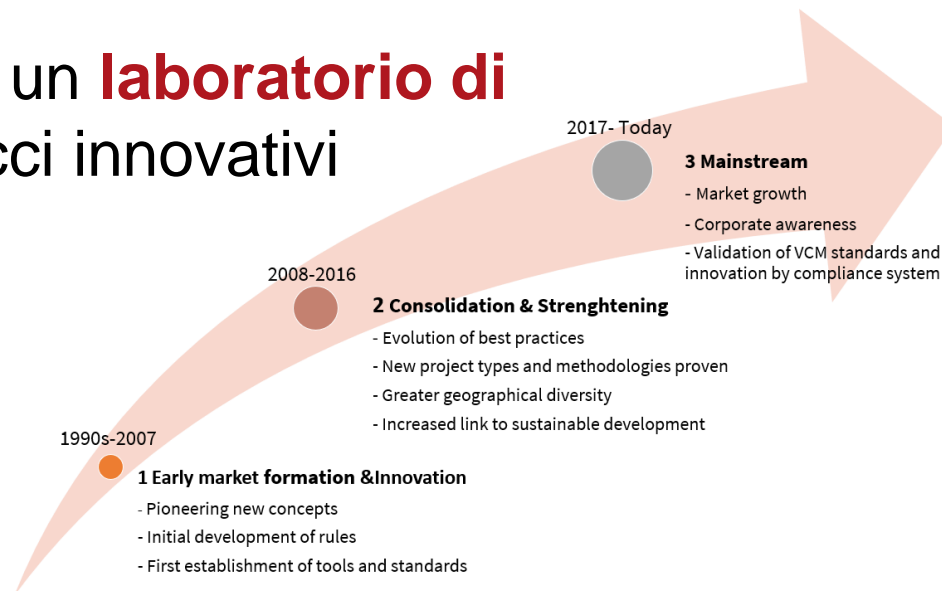
[VIEW MORE](#)

Net Zero Insurance Alliance

The UN-Covenanted Net Zero Insurance Alliance (NZIA) brings together eight of the world's leading insurers and reinsurers to play their part in accelerating the transition to net zero emissions economies. They are committing to individually transition their underwriting portfolios to net-zero greenhouse gas (GHG) emissions by 2050, consistent with a maximum temperature rise of 1.5°C above pre-industrial levels by 2100.

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- Il mercato volontario è costituito prevalentemente da **soggetti privati**
- Il principale *driver* sono le imprese che hanno **impegni di riduzione** delle emissioni, ma anche organizzazioni e private cittadini
- E' un mercato più piccolo di quello istituzionale ma in **forte espansione** (attualmente è un mercato di ca. 2 miliardi \$/anno)
- Il mercato volontario è un **laboratorio di metodologie** e approcci innovativi

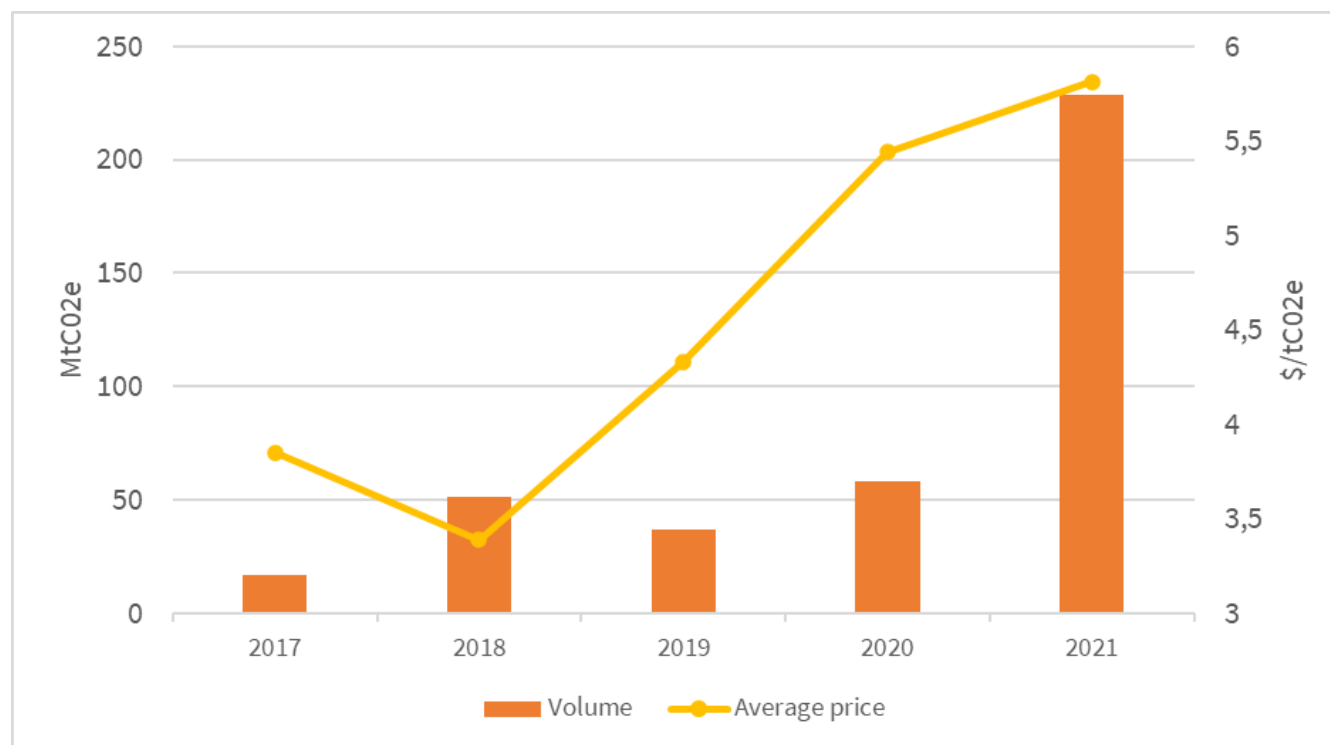


- Nel mercato volontario il settore primario ha un **ruolo fondamentale**, superiore a quello delle energie rinnovabili
- Nel 2021 gli investimenti legati al *land use* (foreste, torbiere e agricoltura): **1,33 miliardi \$**, **46%** del volume delle transazioni

	Volumi (MtCO ₂ eq)	Prezzo medio (\$/tCO ₂ eq)	Valore (MUS\$)
Foreste e torbiere	227,7	5,8	1327,5
Agricoltura	1,0	8,81	8,7

Fonte: Ecosystem Marketplace

- **Volumi e prezzi** stanno **crescendo**, con un *range* di valori molto elevato
- Nel 2021 il prezzo medio è di **5,8\$ per tCO₂eq**

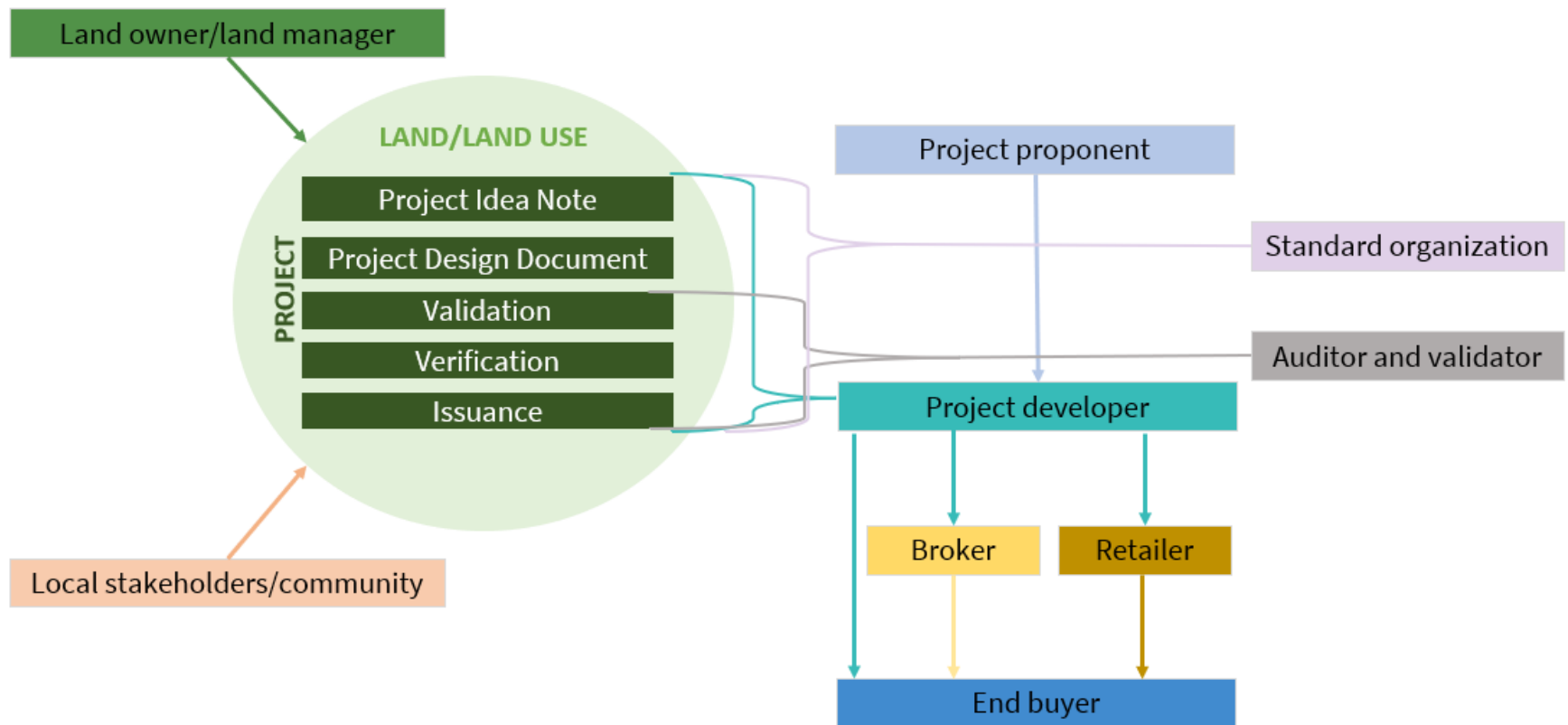


Fonte: Ecosystem Marketplace

Variabilità dei prezzi?

- **Offerta:** tipo di investimento, contesti operativi e quindi costi di intervento
- **Domanda:** preferenze degli investitori (*target* preferenziale “piantagioni di nuove foreste”), anche in termini di paese/località
- **Margini** degli operatori

Un mercato ormai strutturato in un insieme ampio e diversificato di operatori



Variabilità dei prezzi?

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- Domanda: preferenze degli investitori (*target* preferenziale “piantagioni di nuove foreste”), anche in termini di paese/località
- Margini degli operatori
- Costi del **Sistema di QA**: 99% degli investimenti sono oggetto di certificazione di parte terza

Standard internazionali per il mercato volontario

Standard	Acronym	Website	Year of establishment	Geographic Scope
American Carbon Registry	ACR	https://americancarbonregistry.org/	1996	North America
Bcarbon Soil Carbon Credit Systems	Bcarbon	https://bcarbon.org/protocols	2020	Global
Certified Carbon Standard (Cercabono)	CCS	https://www.cercarbono.com/who-we-are/	2018	Global
City Forest Credits	CFC	https://www.cityforestcredits.org/	2015	USA
Climate Action Reserve	CAR	https://www.climateactionreserve.org/how/carbon-market-directory/	2001	North America
Climate Forward	CF	https://climateforward.org/program/methodologies/reforestation/	2019	Global
Climate, Community and Biodiversity	CCB - Verra (2014)	https://www.climate-standards.org/	2005	Global
CO2 Removal Certificates (by Puro.earth)	CORC	https://puro.earth/puro-standard-carbon-removal-credits/	2019	Global
Gold Standard	GS	https://www.goldstandard.org/	2003	Global
Nori	Nori	https://nori.com/	2017	USA
Plan Vivo	Plan Vivo	https://www.planvivo.org/standard-overview	1994	Global
ProClima	ProClima	https://proclima.net.co/wp-content/uploads/2021/02/ProClima-Standard-v2.3.pdf	2018	Colombia and Global
RegenAgri	RegenAgri	https://regenagri.org/wp-content/uploads/2022/02/regenagri-standard-criteria-v2.1.pdf	2022	Global
Social Carbon	SC	https://www.socialcarbon.org/	1998	Global
The REDD+ Environmental Excellence Standard	TREES	https://www.artredd.org/trees/	2020	Global
Verified Carbon Standard	VCS - Verra	https://verra.org/project/vcs-program/	2006	Global

Standard internazionali per il mercato volontario

Standard	Acronym	Website	Year of establishment	Geographic Scope
American Carbon Standard				merica
Bcarbon Soil Carbon Standard				
Certified Carbon Standard (Cercabono)				
City Forest Credits				
Climate Action Standard				merica
Climate Forward Standard				
Climate, Community & Biodiversity Standard				
CO2 Removal Standard (Puro.earth)				
Gold Standard	GS	https://www.goldstandard.org/	2003	Global
Nori	Nori	https://nori.com/	2017	USA
Plan Vivo				
ProClima				and
RegenAgri				
Social Carbon Standard				
The REDD+ Environmental Excellence Standard				
Verified Carbon Standard	VCS - Verra	https://verra.org/project/vcs-program/	2006	Global

In che cosa differiscono: addizionalità e stima della *baseline*, permanenza, *leakage*, anticipazione delle quote generate, *risk management*, doppio conteggio-Registri, confini delle stime (emissioni da uso carburanti, macchine, fertilizzanti, ...), **co-benefici** (ambientali e sociali)

Processo di selezione/integrazione tra standard (emergono VCS-Verra, ACR, Plan Vivo) con VCS-Verra che tende a diventare lo standard di riferimento (89% del mercato – fonte E.M.)

Nel 2020 il Governo canadese ha affidato a VCS-Verra la responsabilità di sviluppare lo standard per il mercato volontario nazionale in campo forestale

VM0034 Canadian Forest Carbon Offset Methodology, v2.0

Overview

Developer

Sectoral Scope

Status

Projects and Programs

Ministry of Environment, Province of British Columbia

14. Agriculture, Forestry, Land Use

Approved
19 April 2020

Rules and Requirements

Download



Methodologies

Validation and Verification

This protocol focuses on enhancing sequestration of carbon dioxide by forests, reducing carbon dioxide emissions from forests and forestry operations and maintaining or increasing stores of carbon in forest and wood product carbon pools. Depending on project-specific circumstances, comparatively small changes (either increases or decreases) in the emission of methane and nitrous oxide may also be realized by eligible projects. Real GHG emission reductions and

Registry System

<https://verra.org/methodology/vm0034-canadian-forest-carbon-offset-methodology-v2-0-2/>

Questa standardizzazione è di rilevanza strategica

Qualche esempio.

E' corretto mettere sul mercato quote che derivano:

- dalla fissazione di carbonio di un pioppeto? (permanenza)
- da tutto il carbonio che una nuova piantagione esposta ad incendi fisserà tra 3 anni? (*risk management*)
- dall'impegno a non tagliare un ceduo lo scorso anno a macchiatico negativo, ora molto remunerativo? o dalla decisione di ritardare di un anno i prelievi programmati in un bosco assestato? (addizionalità)

Natural Capital Exchange (US)



- **Promoter:** SilviaTerra (Yale University's spin-off)
- **Start:** 2019
- **Investments to be financed:** payments for deleting for 1 year harvesting operations; the volume that a forest owner ordinarily would have cut under normal local practices generates credit
- **Contract duration:** 1 year
- **Prices:** as defined through periodic public auctions
- **Market size:** 473,000 ha involved; 130,000 t CO₂ eq sold in 2010
- **Web site:** <https://www.ncx.com/ncx>

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In questo contesto per un armonioso sviluppo del mercato c'è bisogno di regole comuni, trasparenti, rigorose, condivise

- Un compito che diversi organismi pubblici nazionali e regionali, in *partnership* con privati, si sono dati negli ultimi anni → sviluppo di **schemi nazionali volontari**

Schemi nazionali per mercati del carbonio nel settore primario, con relative standard e sistemi di controllo

Country	Name of the initiative	Voluntary/Compliance	Date	Scale	Sector	Eligible activities	Volume of GHG emissions reduced/sequestered	Price
GERMANY	MoorFutures ^a (MF) 	Voluntary	Since 2011	Local	Forestry and land-use	Restoration of peatlands	68,889 tCO ₂ e validated	Between 40 €/tCO ₂ e and 67 €/tCO ₂ e (taxes not included)
UNITED KINGDOM	Woodland Carbon Code ^b (WCC) 	Voluntary	Since 2011	National	Forestry and land-use	Afforestation/ reforestation	6.3 MtCO ₂ e registered whose 3.4 MtCO ₂ e are validated 1.1 MtCO ₂ e are verified*	Between 6 €/tCO ₂ e and 17 €/tCO ₂ e
	Peatland Code ^c (PC) 	Voluntary	Since 2015	National	Forestry and land-use	Restoration of peatlands	6,484 tCO ₂ e on 77 ha validated with 839 ha of projects pending	Between 6 €/tCO ₂ e and 10 €/tCO ₂ e ^d
AUSTRIA	Climate Austria ^e (CA) 	Voluntary	Since 2008	Local	Renewable energy Transport	<ul style="list-style-type: none"> Biomass heating technology Alternatives drives Led lighting Thermal solar energy 	130,000 tCO ₂ e verified	Between 25 €/tCO ₂ e and 40 €/tCO ₂ e
	Ökoregion Kaindorf ^f (OK) 	Voluntary	Since 2007	Local	Agriculture	Carbon in agricultural soil	In 2019, around 25,000 tCO ₂ e** validated	Between 30 €/tCO ₂ e and 45 €/tCO ₂ e
SPAIN	Registro de huella de carbono ^g (RHC) 	Voluntary	Since 2014	National	Forestry and land-use	<ul style="list-style-type: none"> Afforestation/ reforestation Restoring forest areas degraded by fires 	123,590 tCO ₂ e validated whose 19,159 tCO ₂ e are verified	At least 25 €/tCO ₂ e
	Valvocar ^h (Vc)	Voluntary	In development since 2019	Local	Forestry and land-use	N/A	N/A	N/A

Schemi nazionali ... (cont.)

Country	Name of the initiative	Voluntary/Compliance	Date	Scale	Sector	Eligible activities	Volume of GHG emissions reduced/sequestered	Price
FRANCE	Label Bas Carbone (LBC) 	Voluntary	Since 2019	National	Forestry and land-use Agriculture	<ul style="list-style-type: none"> Afforestation Restoration of degraded forest areas Converting coppices to high standing trees Improvements in livestock management 	0 for now	N/A
SWITZERLAND	Max.Moor (Mx)	Voluntary	2015-2020	National	Forestry and land-use	Rewetting peatlands	Not Known	Around 110 €/tCO ₂ e
NETHERLANDS	Green Deal ⁱ (GD) 	Voluntary	In development since 2017	National	Forestry and land-use Renewable energy	<ul style="list-style-type: none"> Peatland Management Riothermia to substitute natural gas in heating public building (in development) 	The Green Deal aims at 0.5 MtCO ₂ e/year (projection)	N/A
NORDIC COUNTRIES (FINLAND, BELGIUM, SWEDEN)	Puro.earth ^k (Pu)	Voluntary	Since 2019 legal entity planned for 2019	Several countries	Agriculture Building	<ul style="list-style-type: none"> Carbonated building elements Wooden building elements Biochar 	N/A	Average price of 26 €/tCO ₂ e ^l

Source: Domestic carbon standards in Europe <https://www.i4ce.org/wp-core/wp-content/uploads/2020/02/0218-i4ce3153-DomesticCarbonStandards.pdf>

In questo contesto per un armonioso sviluppo del mercato c'è bisogno di regole comuni, trasparenti, rigorose, condivise

- Un compito che diversi organismi pubblici nazionali e regionali, in partnership con privati, si sono dati negli ultimi anni → sviluppo di **schemi nazionali volontari**
- Questi sviluppi hanno reso ancora più necessario un coordinamento centrale: → **iniziativa Carbon farming della CE**: uno standard per attività agricole e forestali che, comportando fissazione di carbonio o/e mancate emissioni dal settore primario, attiverà contributi del 2° pilastro (in attesa dell'entrata nell'ETS dei crediti del settore primario...)

Climate Action

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Carbon Farming

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[Technical guidance on carbon farming](#)[Events](#)[Funding](#)[Examples of co-financed projects on carbon farming](#)

The land sector is key for reaching a climate-neutral economy, because it can capture CO₂ from the atmosphere. However, to encourage the agriculture and forestry sectors to deliver on climate action and contribute to the European Green Deal, it is necessary to create direct incentives for the adoption of climate-friendly practices, as currently there is no targeted policy tool to significantly incentivise the increase and protection of carbon sinks for land managers.

For this reason, in December 2021 the Commission adopted the Communication on Sustainable Carbon Cycles, as announced in the [Farm to Fork Strategy](#). The Communication sets out short- to medium-term actions aiming to address current challenges to carbon farming in order to upscale this green business model that rewards land managers for taking up practices leading to carbon sequestration, combined with strong benefits on biodiversity. These include:

- promoting carbon farming practices under the Common Agricultural Policy (CAP) and other EU programmes such as LIFE and Horizon Europe, in particular under the Mission “A Soil Deal for Europe”, and under public national financing;
- driving forward the standardisation of monitoring, reporting and verification methodologies to provide a clear and reliable framework for carbon farming;
- providing improved knowledge, data management and tailored advisory services to land managers.

https://climate.ec.europa.eu/eu-action/forests-and-agriculture/sustainable-carbon-cycles/carbon-farming_en

Questo coordinamento tra le autorità statali non è una opzione, ma un **impegno formale** dell'Accordo di Parigi!

118. Welcomes the efforts of non-Party stakeholders to scale up their climate actions, and encourages the registration of those actions in the Non-State Actor Zone for Climate Action platform

119. Encourages Parties to work closely with non-Party stakeholders to catalyse efforts to strengthen mitigation and adaptation action

(Fonte: Accordo di Parigi)

