

Stream Management to increase Carbon stock in Soil

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

SMACS

Tematica

Gestione dei sottoprodotti agricoli

Information

Time frame

2019 - 2022

Durata

36 months

Partners (no.)

6

Regione

Emilia-Romagna

Comparto

Forestale

Localizzazione

ITH51 - Piacenza

ITH52 - Parma

Costo totale

€199.988,74

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Climate and climate change

Soil management / functionality

Water management

Forestry

Sito web

<http://smacsforest.it/>

Project status

completed



Objectives

The main goal of this Plan is to optimize the use of the wood biomass, widely available in the Emilia Romagna region. The biomass is then used to increase the carbon stock of the agricultural and forest soils, with positive effects on the physical, chemical and biological properties of the soil and increase of the carbon stocks in soils.

Activities

- Collection of wood biomass from the riverbeds of private mountain streams and their pyrolysis to obtain syngas and biochar;
- application of biochar to soil to improve soil structure and soil quality;
- assessment of the environmental impacts associated with the plan following the life cycle assessment approach.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Università Cattolica del Sacro Cuore - Dipartimento di Scienze e tecnologie alimentari per una filiera agro-alimentare sostenibile (DiSTAS) - Piacenza	Via Emilia Parmense 84 29122 Piacenza PC Italy	0523 599245	segreteria.distas-pc@unicatt.it
Partner	Azienda Agraria Sperimentale Stuard S.c.r.l.	Via Madonna dell'Aiuto 7/A 43126 San Pancrazio PR Italy	0521 671569	stuardscrl@arubapec.it
Partner	Centro di Formazione e Innovazione "Vittorio Tadini"	Località Vignazza, 15 29027 Podenzano PC Italy	0523 524250	
Partner	Consorzio Comunalie Parmensi	Via Nazionale 90 43043 Borgo Val di Taro PR Italy	0525 90155	info@comunalie.com
Partner	Consorzio Interuniversitario Nazionale per le Scienze Ambientali	Parco Area delle Scienze 43124 Parma PR Italy	0521 905606	cinsa@unipr.it
Partner	Firewood di Questa Nicola	Via De Therry, 16 43059 Santa Maria Del Taro, Tornolo PR Italy	328 6263698	

Pratiche abstract

Description

The main goal of this Plan is to optimize the use of the wood biomass, widely available in the Emilia Romagna region. The biomass is then used to increase the carbon stock of the agricultural and forest soils, with positive effects on the physical, chemical and biological properties of the soil and increase of the carbon stocks in soils. The following activities will be implemented in the project: 1) collection of wood biomass from the riverbeds of private mountain streams and their pyrolysis to obtain syngas and biochar; 2) application of biochar to soil to improve soil structure and soil quality; 3) assessment of the environmental impacts associated with the plan following the life cycle assessment approach. The expected results will be: increase of carbon storage in soils; obtaining of renewable energy; improvement of soil quality; avoiding soil erosion.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	http://smacsforest.it/	Sito web
Video del progetto	https://www.stuard.it/wp-content/uploads/SMACS-DEF-LEGGERO.mp4?_=1	Materiali utili
