Residual biomass for energy, agronomy and breeding use

Riferimenti
Tipo di progetto
Gruppo Operativo

Acronimo
RBR-EAS

Tematica
Energia rinnovabile

Information
Time frame
2017 - 2019

Durata
33 months

Partners (no.)
4

Regione
Emilia-Romagna

Comparto
Multifiliera

Localizzazione
ITH58 - Forlì-Cesena

Costo totale
€118.999,33

Fonte di finanziamento principale
Programma di sviluppo rurale

Programma di sviluppo rurale
2014IT06RDRP003: Italy - Rural Development Programme (Regional) - Emilia Romagna

Parole chiave
Animal husbandry and welfare
Soil management / functionality
Agricultural production system

Sito web
https://progetti.crpv.it/Home/ProjectDetail/34

Project status
completed

Objectives
The aim of the project is to evaluate the possibility of using different residual biomass with energy purposes (biofuel production), agricultural (production of fertilizer) and food (dietary supplement) as well as for the reduction of emissions of methane produced in the stable. The solution is the development of a technical system that allows on farm the realization of a solid carbonaceous product (Biochar) that can obtain a soil improver, biofuel, supplement for zootechnical use, both in the animal feed or as an additive in litter from cattle and poultry.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	CRPV Lab - Settore energia, ambiente e sviluppo sostenibile	Via Tebano 45 48018 Faenza RA Italy	0546 47169	rcanestrale@crpv.it
Partner	Azienda Cesare Martini	Via Pantano 70 47010 Galeata FC Italy	339 232 6385	rcanestrale@crpv.it
Partner	CNR - Istituto di Biometeorologia IBIMET (Firenze)	Via Giovanni Caproni, 8 50145 Firenze FI Italy	055 3033711	f.camilli@ibimet.cnr.it
Partner	FONDAGRI	Via Ravegnana 126 47122 Forlì FC Italy	0547 313511	fondagri@agrotecnici.it

Pratice abstract

Description

AGRICULTURAL INNOVATION

The agricultural benefits that may derive from the use of biochar in addition or not to animal deities are numerous. Through the planned and described agronomic tests, the benefits of the crop water balance (water reduction for irrigation and increased water resistance) will be revealed and disclosed, increased organic carbon content in the soil, reduction of leaching of nitrogenous nutrients .

ZOOTECNIC INNOVATION

The introduction of the biochar into the stable (in the animal diet and in the litterbox) has as its purpose the reduction of methane production (climber gas). Furthermore, thanks to the combined use of the biochar with the soil dampers, high environmental impacts will be valued and recycled, controlling the losses of N.

ENERGY INNOVATION

Energy innovation is given by the possibility of obtaining, through the use of a prototype roasting plant, a product with high calorific value and high energy density, but different types of biomass, especially those of lesser value such as the residuals of some processes forestry, urban greenery, agriculture and the agro-food sector.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://progetti.crpv.it/Home/ProjectDetail/34	Sito web

Titolo/Descrizione	Url	Tipologia
Articolo - Un alleato per combattere il cambiamento del clima - Ecoscienza 2-2020	https://progetti.crpv.it/File/DownloadFile/445?name=RBREASEcoscienza2020_02.pdf...	Materiali utili
Le nuove frontiere del biochar - Newsletter Fondazione Minoprio n. 6-2020	https://progetti.crpv.it/File/DownloadFile/444?name=RBREASnewsletter%20minoprio...	Materiali utili
Biochar: soluzione sostenibile Fertilizzanti 2-2020	https://progetti.crpv.it/File/DownloadFile/443?name=RBREASFERTILIZZANTI%202-202...	Materiali utili
Presentazioni Convegno finale Progetto RBR-EAS 11-12-2020 I parte	https://progetti.crpv.it/File/DownloadFile/408?name=Atti%20convegno%20RBR%20EAS...	Materiali utili
Presentazioni Convegno finale Progetto RBR-EAS 11-12-2020 II parte	https://progetti.crpv.it/File/DownloadFile/409?name=Atti%20convegno%20RBR%20EAS...	Materiali utili
Video del progetto - Riutilizzo di biomasse residuali per uso energetico, agronomico e in stalla	https://www.youtube.com/watch?v=UU7E0sRXrfc%29	Materiali utili
Video - Visita Applicazione di biochar in ambito agronomico e in stalla 17-11-2020 - Galeata (FC)	https://www.youtube.com/watch?v=eZlY8mIpa8w%29	Materiali utili
Video Convegno finale Progetto RBR-EAS 11-12-2020	https://www.youtube.com/watch?v=DEgDqZZWJ-4%29	Materiali utili