

(E)MISSION, for a green livestock farming

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

(E)MISSION

Tematica

Emissioni di inquinanti e gas serra

Information

Time frame

2017 - 2019

Durata

24 months

Partners (no.)

6

Regione

Emilia-Romagna

Comparto

Zootecnia

Localizzazione

ITH51 - Piacenza

ITH53 - Reggio nell'Emilia

Costo totale

€177.046,76

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

Fertilisation and nutrients management

Soil management / functionality

Waste, by-products and residues management

Farming practice

Sito web

<http://emission.crpa.it>

Project status

completed



Objectives

The main objective is to promote sustainable agriculture (environmentally and socially) through reduction of GHG and ammonia emissions, with particular reference to regional livestock farming systems. The work involves the study of innovative strategies to reduce nitrogen loss, by volatilization (NH₃) and denitrification (N₂O), supporting nitrogen storage in soils after autumn and spring manure distribution. Also set up a goal still present in the overall priorities of the RDP, which is to reduce the use of synthetic mineral fertilizers (especially N, by reducing N losses effluents released in spring/autumn) to reduce pollution generated by agriculture and improve water quality.

Activities

The content of the plan will see the succession of: Preparatory and instrumental actions (view to the correct execution of the field activities), Implementation actions through which the techniques and practices identified will be applied in the fields selected for the study of gas emissions from the soil. Data collection activities aimed at collecting and analyzing the data obtained. Dissemination actions: the benefit of the farmers training services for the project.

The spread actions that will contain the results will be included in annual reports and project end.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Università Cattolica del Sacro Cuore - Dipartimento di Scienze delle produzioni vegetali sostenibili (DI.PRO.VE.S.) - Piacenza	Via Emilia Parmense 84 29122 Piacenza PC Italy	0523 599269	diproves-pc@unicatt.it
Partner	Azienda Agricola Grana d'Oro	Via Neida 10 42025 Cavriago RE Italy	0522370782	info@granadoro.it
Partner	Azienda Agricola Biogold s.s. di Goldoni Giovanni & C. società agricola	Via Garavaldi 1 42123 Loc.Rivalta RE Italy	348 1158116	biogoldreggioe@gmail.com
Partner	C.R.P.A. S.p.A.	V.le Timavo 42/2 42121 Reggio Emilia RE Italy	0522 436999	info@crpa.it
Partner	Centro Ricerche Zootecniche, CERZOO s.r.l.	Via Castellarino 12 29122 Piacenza PC Italy	0523 506102	mauro.morlacchini@unicatt.it
Partner	Fondazione CRPA Studi Ricerche	Viale Timavo 43/2 42121 Reggio Emilia RE Italy	0522- 436999	info@fondazionecrpa.it

Pratiche abstract

Description

The project will support farmers in identifying the best strategies to distribute manure in order to reduce greenhouse gas emissions and to take advantages from the manure to improve soil fertility.

Strategies will include technologies to bury the manure, timing of distribution and use of the best cover crops to catch the nutrients and reduce emissions.

The project will be divided into two distinct lines:

- The first refers to intensive dairy cattle, in particular the production of corn silage. In this case, the expected result is the reduction of emissions from autumn-spring slurry distribution by using a burying and by exploiting the mitigation effect promoted by various cover crops .

The main impacts of this project for farms consist in the identification of slurry distribution methodology (eg Cover Crops + type of Burying) that could reduce GHGs emissions into the atmosphere, increase the level of environmental sustainability and the efficiency of input utilization, while at the same time generating an increase in soil fertility.

Description

The second line is based on the production area of Parmigiano-Reggiano and, in particular, the management of grassland. In this case, the expected result is the reduction of emissions due to burying. It is therefore desirable to evaluate the possibility of a winter distribution, as a solution to the increasing storage problems caused by the winter interruption of spreads.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	http://emission.crpa.it	Sito web
(E)mission sulla rivista Il Solco	http://emission.crpa.it/nqcontent.cfm?a_id=17820&tt=t_bt_app1_www	Materiali utili
I focus della ricerca CRPA in un articolo	http://emission.crpa.it/nqcontent.cfm?a_id=18511&tt=t_bt_app1_www	Materiali utili
Sintesi del primo anno di lavoro	http://emission.crpa.it/nqcontent.cfm?a_id=18879&tt=t_bt_app1_www	Materiali utili
(E)mission su TRC	http://emission.crpa.it/nqcontent.cfm?a_id=19094&tt=t_bt_app1_www	Materiali utili
Obiettivi e prove in campo del progetto (E)mission	http://emission.crpa.it/nqcontent.cfm?a_id=19151&tt=t_bt_app1_www	Materiali utili
Un articolo con i risultati del go (E)mission	http://emission.crpa.it/nqcontent.cfm?a_id=20168&tt=t_bt_app1_www	Materiali utili
Il Gruppo Operativo (E)mission spiegato in un video	http://emission.crpa.it/nqcontent.cfm?a_id=20362&tt=t_bt_app1_www	Materiali utili
In un opuscolo i risultati di (E)mission	http://emission.crpa.it/nqcontent.cfm?a_id=20403&tt=t_bt_app1_www	Materiali utili
Relazione tecnica finale	https://agricoltura.regione.emilia-romagna.it/progetti-innovazione/raccolta-pro...	Materiali utili

(E)MISSION, per una zootecnia verde

<https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/emission-una-zootecnia-verde>

4/4