LAND-Use based Mitigation for Resilient Climate Pathways

Fact Sheet

Project Information

LANDMARC

Grant agreement ID: 869367

DOI
10.3030/869367

Funded under
SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials

Total cost
€ 7 062 988,75

EU contribution
€ 6 999 988,75

Coordinated by
TECHNISCHE UNIVERSITEIT DELFT

Netherlands

Start date
1 July 2020

End date
30 June 2024

Project description

Land-based negative emission solutions

Land-based negative emission solutions are included as a mitigation measure in the Nationally Determined Contributions (NDCs) under the Paris Agreement. Negative emission solutions can play an important role in the global efforts to achieve climate targets and the Sustainable Development Goals (SDGs). However, there are still significant questions and risks regarding the efficiency and effectiveness of negative emissions solutions. The EU-funded LANDMARC project will estimate the climate impact, potential for upscaling, and associated co-benefits and trade-offs of various land-based negative emission solutions, such as net sinks for greenhouse gases in
agriculture. The project will apply earth observation monitoring, a mix of climate, land-use and economic simulation models as well as local and regional stakeholder engagement activities across 16 case studies and five regional platforms.

Objective

Roughly 30% of Nationally Determined Contributions (NDCs) under the Paris Agreement (PA) include land-based mitigation measures, but there are still significant uncertainties in their effectiveness to deliver negative emissions. Aside from the expected shortfall of all current NDCs to deliver on the below 2 oC ambition, this uncertainty adds to the risks to human wellbeing as a result of climate change. Land-use based mitigation technologies (LMTs) can play a crucial role in the global efforts to meet the PA goals and the Sustainable Development Goals (SDGs). Considering the land-climate-development interface, LANDMARC aims to assess the impacts of LMTs as net sinks for greenhouse gas (GHGs) by applying unique mixed-methods approach. LANDMARC assesses the potential and feasibility of LMTs in the AFOLU sector by: a) quantitatively assessing environmental, social-economic, co-benefits and trade-offs identified through a suite of monitoring tools and model system (including land use, climate and economic models) complemented by; b) qualitative assessments guided by stakeholder engagement. This mixed-method approach allows us to provide more detailed insights on the effectiveness and climate resilience of LMTs at different spatial scales (e.g. scaling up from local/national level to the regional/global level). These tools, services and approaches will contribute to land-based LMT decision support in the private sector and by policy makers. LANDMARC is an interdisciplinary consortium with expertise from ecology, engineering, climate sciences, global carbon cycle, soil sciences, satellite earth observation sciences, agronomy, economics, social sciences, and business. There is a balanced representation of partners from academia, SMEs, and NGOs from the EU, Africa, Asia and the Americas, which ensures a wide coverage of LMTs operating in different contexts (e.g. climates, land-use practices, socio-economic etc.) and spatial scales.

Fields of science

natural sciences > earth and related environmental sciences > soil sciences
social sciences > political sciences > political policies > civil society > nongovernmental organizations
social sciences > economics and business > economics
agricultural sciences > agriculture, forestry, and fisheries > agriculture > agronomy
natural sciences > earth and related environmental sciences > atmospheric sciences > climatology > climatic changes
Programme(s)

H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials

H2020-EU.3.5.1. - Fighting and adapting to climate change

Topic(s)

LC-CLA-02-2019 - Negative emissions and land-use based mitigation assessment

Call for proposal


See other projects for this call

Sub call

H2020-LC-CLA-2019-2

Funding Scheme

RIA - Research and Innovation action

Coordinator

TECHNISCHE UNIVERSITEIT DELFT

Net EU contribution

€ 796 062,50

Address

Stevinweg 1
2628 CN Delft
Netherlands

Region

West-Nederland > Zuid-Holland > Delft en Westland

Activity type

Higher or Secondary Education Establishments

Links
Participants (19)

STICHTING JOINT IMPLEMENTATION NETWORK
Netherlands
Net EU contribution
€ 838 072,50
Address
Meerkoetlaan 27
9765 TC Paterswolde
SME
Yes
Region
Noord-Nederland > Drenthe > Noord-Drenthe
Activity type
Research Organisations
Links
Contact the organisation
Website
Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
€ 0,00

AMBIENTA INGENIERIA Y SERVICIOS AGRARIOS Y FORESTALES SL
Spain
Net EU contribution
€ 443 000,00
Address
Plaza Constitucion 2
10810 Montehermoso
SME
Yes
Region
Extremadura > Cáceres
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
€ 0,00

AGROINSIDER LDA
Portugal
Net EU contribution
€ 377 812,50
Address
Rua Circular Norte Edificio Nere Sala 18
7005 841 Evora
SME
Yes
Region
Continente > Alentejo > Alentejo Central
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
€ 0,00
BARCELONA SUPERCOMPUTING CENTER-CENTRO NACIONAL DE SUPERCOMPUTACION

Spain

Net EU contribution

€ 471 250,00

Address

Calle Jordi Girona 31
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Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

Contact the organisation 🌐 Website 🌐 Participation in EU R&I programmes 🌐 H2020 collaboration network 🌐

Non-EU contribution

€ 0,00

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ELEAF BV

Netherlands

Net EU contribution

€ 431 562,50

Address

Hesselink Van Suchtelenweg 6
6703 CT Wageningen

SME 📘 Yes

Region

Oost-Nederland > Gelderland > Veluwe

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation 🌐 Website 🌐 Participation in EU R&I programmes 🌐
H2020 collaboration network

Non-EU contribution
€ 0,00

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UNIVERSITAET KASSEL

Germany

Net EU contribution
€ 534 873,75

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Monchebergstrasse 19
34125 Kassel

Region
Kassel > Kassel, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes H2020 collaboration network

Non-EU contribution
€ 0,00

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BIOCLEAR EARTH BV

Netherlands

Net EU contribution
€ 419 097,50

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Rozenburglaan 13
9727 DL Groningen

SME
Yes

Region
Noord-Nederland > Groningen > Overig Groningen

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation  Website  Participation in EU R&I programmes  H2020 collaboration network

Non-EU contribution

€ 0,00

THIRD-PARTY

MICROBIAL ANALYSIS BV

Netherlands

Net EU contribution

€ 144 000,00

Address

Rozenburglaan 13
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Region

Noord-Nederland > Groningen > Overig Groningen

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation  Participation in EU R&I programmes  H2020 collaboration network

Non-EU contribution

€ 0,00

CAMBRIDGE ECONOMETRICS LIMITED

United Kingdom

Net EU contribution

€ 247 045,00

Address

Covent Garden
CB1 2HT Cambridge

SME

Yes
**Region**

East of England > East Anglia > Cambridgeshire CC

**Activity type**

Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Links**

Contact the organisation [Link]  Website [Link]
Participation in EU R&I programmes [Link]
H2020 collaboration network [Link]

**Non-EU contribution**

€ 0,00

---

**STIFTELSSEN THE STOCKHOLM ENVIRONMENT INSTITUTE**

Sweden

Net EU contribution

€ 437 573,75

**Address**

Box 24218

104 51 Stockholm [Map]

**Region**

Östra Sverige > Stockholm > Stockholms län

**Activity type**

Research Organisations

**Links**

Contact the organisation [Link]  Website [Link]
Participation in EU R&I programmes [Link]
H2020 collaboration network [Link]

**Non-EU contribution**

€ 0,00

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**KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT-KNMI**

Netherlands

Net EU contribution

€ 166 250,00

**Address**

9 of 14
OEKO-INSTITUT E.V. - INSTITUT FUER ANGEWANDTE OEKOLOGIE
Germany
Net EU contribution
€ 221,593,75
Address
Merzhauser Strasse 173
79100 Freiburg
Region
Baden-Württemberg > Freiburg > Freiburg im Breisgau, Stadtkreis
Activity type
Research Organisations
Links
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Non-EU contribution
€ 0,00

BIORECRO AB
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€ 201,325,00
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Frejgatan 1
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Region
Östra Sverige > Stockholm > Stockholms län
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
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H2020 collaboration network
Non-EU contribution
€ 0,00

PT SUSTAINABILITY AND RESILIENCE
Indonesia
Net EU contribution
€ 119 500,00
Address
Gedung Pasar Raya Kuta Jl.raya Tuban 62 Lantai 1/2a Lingkungan Tuban Griya Kel.tuban Kec.kuta
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SME
Yes
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
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Participation in EU R&I programmes
H2020 collaboration network
Non-EU contribution
€ 0,00
THE UNIVERSITY OF SUSSEX
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Net EU contribution
€ 341 645,00

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Sussex House Falmer
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Region
South East (England) > Surrey, East and West Sussex > Brighton and Hove

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  
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Participation in EU R&I programmes  
H2020 collaboration network

Non-EU contribution
€ 0,00

INNOVATIONS FOR SUSTAINABILITY TRANSITIONS LAB LTD
Canada

Net EU contribution
€ 0,00

Address
246 Schiller Place N.w.
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Activity type
Other

Links
Contact the organisation  
Participation in EU R&I programmes  
H2020 collaboration network

Non-EU contribution
€ 63 000,00
CENTRO INTERNACIONAL DE AGRICULTURATROPICAL, CIAT

Colombia

Net EU contribution

€ 147 500,00

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Kilometro 17 Recta Cali
763537 Palmira

Activity type

Research Organisations

Links

Contact the organisation ️ Website ️
Participation in EU R&I programmes ️
H2020 collaboration network ️

Non-EU contribution

€ 0,00

COBRA COLLECTIVE CIC

United Kingdom

Net EU contribution

€ 149 875,00

Address

21 Willson Road Englefield Green
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Region

South East (England) > Surrey, East and West Sussex > West Surrey

Activity type

Research Organisations

Links

Contact the organisation ️ Participation in EU R&I programmes ️
H2020 collaboration network ️

Non-EU contribution

€ 0,00
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland

Net EU contribution

€ 511 950,00

Address

Raemistrasse 101
8092 Zuerich

Region

Schweiz/Suisse/Svizzera › Zürich › Zürich

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Website
Participation in EU R&amp;I programmes
H2020 collaboration network

Non-EU contribution

€ 0,00

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