

Imperial College London Participation

Cluster 5: Climate, Energy & Mobility

Table of contents

Expanding Integrated Assessment Modelling: Comprehensive and Comprehensible Science for Sustainable, Co-Created Climate Action	2
NEXTAIR - multi-disciplinary digital - enablers for NEXT-generation AIRcraft design and operations	17
SOLID-STATE LITHIUM METAL BATTERY WITH IN SITU HYBRID ELECTROLYTE	29
Reliability, Resilience and Defense technology for the grid	44
SCALING-UP OF A HIGHLY MODULAR ROTATING PACKED BED PLANT WITH AN EFFICIENT SOLVENT FOR CAPTURE COST REDUCTION	57
Delivering the next generation of open Integrated Assessment MOdels for Net-zero, sustainable Development	67
Socioeconomic Pathways, Adaptation and Resilience to Changing CLimate in Europe	81
Highly Efficient Super Critical ZERO eMission Energy System	91
Transformative Digital Air Vehicle with IoT Sensors for Safer Urban Skies	100
OPEN FAN VALIDATION FOR CARBON-FREE AIRCRAFTS	107
RE-thinking of approaches and toolkits for transdisciplinary INTEGRATED assessment of climate-compatible energy strategies from the African Union through to the European Union	113
Smart, Aware, Integrated Wind Farm Control Interacting with Digital Twins (ICONIC)	124
Scale-resolving Simulations for Innovations in Turbomachinery Design	135
Cloud-aERosol inTeractions & their impActs IN The earth sYstem	144
Novel Fuel-Flexible ultra-Low Emissions Combustion systems for Sustainable aviation	157
Sustainable Technologies for Reducing Europe's bAttery raw MaterialS dependance	165

Introduction

This booklet comprises the Horizon Europe Projects under Cluster 5 'Climate, Energy & Mobility' that Imperial participates in as an Associated Partner. Funding from UKRI Horizon Guarantee.

Expanding Integrated Assessment Modelling: Comprehensive and Comprehensible Science for Sustainable, Co-Created Climate Action

Fact Sheet

Project Information

IAM COMPACT

Grant agreement ID: 101056306

DOI

[10.3030/101056306](https://doi.org/10.3030/101056306) 

EC signature date

19 July 2022

Start date

1 September 2022

End date

31 August 2025

Funded under

Climate, Energy and Mobility

Total cost

€ 4 461 325,75

EU contribution

€ 4 461 323,00

Coordinated by

ETHNICON METSOVION

POLYTECHNION

 Greece

Project description

Actions for climate policies short of targets

There is a gap between current climate policies and the Paris Agreement's objectives. The difference refers to the current level of global greenhouse gas emissions and the emissions reductions required. This highlights the need for increased ambition and stronger climate action from all countries to bridge this gap and avoid the worst impacts of climate change. With this in mind, the EU-funded IAM COMPACT project will design a multi-dimensional set of policy measures using a diverse ensemble of models, tools and insights from various fields. The project will

involve non-scientists in the modelling process. It will also support the assessment of global climate goals, progress, and feasibility space.

Fields of science

[medical and health sciences](#) > [health sciences](#) > [infectious diseases](#) > [RNA viruses](#) > **[coronaviruses](#)**
[social sciences](#) > **[political sciences](#)**

Keywords

[integrated assessment modelling](#)

[extremes](#)

[climate policy](#)

[NDCs](#)

[global stocktake](#)

[Paris Agreement](#)

[major emitters](#)

[non-high-income countries](#)

[capacity development](#)

[open science](#)

[interdisciplinarity](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.1 - Climate Science and Solutions](#)

Topic(s)

[HORIZON-CL5-2021-D1-01-04 - Enhanced integrated assessment in pursuit of global climate goals](#)

Call for proposal

[HORIZON-CL5-2021-D1-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



ETHNICON METSOVION POLYTECHNION

Net EU contribution

€ 601 562,00

Address

Heroon polytechniou 9 zographou campus

157 80 Athina

Greece

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,50

Participants (20)



AALTO KORKEAKOULUSAATIO SR

Finland

Net EU contribution

€ 206 967,00

Address

Otakaari 1

02150 Espoo

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



AALBORG UNIVERSITET

 Denmark

Net EU contribution

€ 223 812,00

Address

Fredrik bajers vej 7k

9220 Aalborg 

Region

Danmark > Nordjylland > Nordjylland

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,50



ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI

 Spain

Net EU contribution

€ 306 125,00

Address

Edificio 1 planta 1 parque cientifico de upv/ehu barrio sarriena

48940 Leioa 

Region

Noreste > Pais Vasco > Bizkaia

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



BRUEGEL AISBL*

 Belgium

Net EU contribution

€ 337 115,00

Address

Rue de la charite 33

1210 Bruxelles / brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



FUNDACION CARTIF

 Spain

Net EU contribution

€ 222 500,00

Address

Pq tecnologico boecillo 205

47151 Boecillo 

Region

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CICERO SENTER FOR KLIMAFORSKNING

 Norway

Net EU contribution

€ 250 000,00

Address

Gaustadalleen 21

0349 Oslo 

Region

Norge > Oslo og Viken > Oslo

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



E3-MODELLING AE

 Greece

Net EU contribution

€ 353 125,00

Address

Panormou 70-72

11523 Athina 

SME 

Yes

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



KUNGLIGA TEKNISKA HOEGSKOLAN

 Sweden

Net EU contribution

€ 356 893,00

Address

Brinellvagen 8

100 44 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,75



POLITECNICO DI MILANO



Italy

Net EU contribution

€ 270 000,00

Address

Piazza leonardo da vinci 32

20133 Milano 

Region

Nord-Ovest > Lombardia > Milano

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITY OF PIRAEUS RESEARCH CENTER

 Greece

Net EU contribution

€ 202 937,00

Address

Al. papanastasiou 91

185 33 Piraeus 

Region

Αττική > Αττική > Πειραιάς

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,50



UNIVERSIDAD DE VALLADOLID

Spain

Net EU contribution

€ 234 625,00

Address

Plaza santa cruz 8 palacio de santa cruz
47002 Valladolid

Region

Centro (ES) > Castilla y León > Valladolid

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



WUPPERTAL INSTITUT FUR KLIMA, UMWELT, ENERGIE GGMBH

Germany

Net EU contribution

€ 336 250,00

Address

Doppersberg 19
42103 Wuppertal

SME

Yes

Region

Nordrhein-Westfalen > Düsseldorf > Wuppertal, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

Other funding

€ 0,00



INDIAN INSTITUTE OF MANAGEMENT

 India

Net EU contribution

€ 98 125,00

Address

Vastrapur

380 015 Ahmedabad 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TSINGHUA UNIVERSITY

 China

Net EU contribution

€ 90 000,00

Address

Qing hua yuan

100084 Beijing 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THE UNIVERSITY OF MARYLAND FOUNDATION INC

United States

Net EU contribution

€ 0,00

Address

Metzerott road 3300

20783 Adelphi

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00

THIRD-PARTY

University System of Maryland

United States

Net EU contribution

€ 150 387,00

Address

Metzerott road 3300

MD 20783-1690 Adelphi

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,50



ADDIS ABABA UNIVERSITY

 Ethiopia

Net EU contribution

€ 30 750,00

Address

Addis ababa university

1176 Addis ababa 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



INTERNATIONAL CIVIC ORGANISATION KYIV ECONOMICS INSTITUTE

 Ukraine

Net EU contribution

€ 81 250,00

Address

Petra sahadachnoho street 16 b apt 23

04070 Kyiv 

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



RAJA RATA UNIVERSITY OF SRI LANKA

 Sri Lanka

Net EU contribution

€ 40 150,00

Address

Anuradhapura road

50900 Mihintale 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TECHNICAL UNIVERSITY OF MOMBASA

 Kenya

Net EU contribution

€ 68 750,00

Address

Tom mboya street

80100 Mombasa 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (2)



UNIVERSITE DE GENEVE

 Switzerland

Net EU contribution

€ 0,00

Address

Rue du general dufour 24

1211 Geneve 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Genève

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 15 September 2022

Permalink: <https://cordis.europa.eu/project/id/101056306>

European Union, 2024

NEXTAIR - multi-disciplinary digital - enablers for NEXT-generation AIRcraft design and operations

Fact Sheet

Project Information

NEXTAIR

Grant agreement ID: 101056732

DOI

[10.3030/101056732](https://doi.org/10.3030/101056732) 

EC signature date

11 May 2022

Start date

1 September 2022

End date

31 August 2025

Funded under

Climate, Energy and Mobility

Total cost

€ 4 720 526,75

EU contribution

€ 4 720 525,00

Coordinated by

OFFICE NATIONAL D'ETUDES ET
DE RECHERCHES
AEROSPATIALES

 France

Project description

Digital solutions for climate-neutral aviation

Mitigating aviation's impact on climate change requires major changes in aircraft configurations and operations. Digital methodologies that optimise aircraft performance will play a key role in this transformation. Through eight industrial test cases, the EU-funded NEXTAIR project will build and validate novel design methodologies, data-fusion procedures and smart health assessment tools. Together, these solutions will lead to the digital transformation of aircraft design, manufacturing, and maintenance. The project will improve methods to better tackle

the uncertainty in manufacturing and the inconsistency in operations for the industrial, multi-disciplinary design of aircraft and engine components.

Fields of science

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > **[aircraft](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > **[aeronautical engineering](#)**

[natural sciences](#) > [computer and information sciences](#) > [computational science](#) > **[multiphysics](#)**

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > **[machine learning](#)**

Keywords

[digital enablers](#)

[modelling capabilities](#)

[Multi-disciplinary Optimisation](#)

[machine learning](#)

[uncertainty quantification](#)

[robust design](#)

[digital twin](#)

[green aircraft configuration](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility](#)

[HORIZON.2.5.6 - Industrial Competitiveness in Transport](#)

Topic(s)

[HORIZON-CL5-2021-D5-01-06 - Next generation digital aircraft transformation in design, manufacturing, integration and maintenance](#)

Call for proposal

[HORIZON-CL5-2021-D5-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES

Net EU contribution

€ 867 073,00

Address

Chemin de la huniere

91120 Palaiseau

France

Region

Ile-de-France > Ile-de-France > Essonne

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00

Participants (12)



AIRBUS OPERATIONS SAS

France

Net EU contribution

€ 295 175,00

Address

Route de bayonne 316

31060 Toulouse

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



DASSAULT AVIATION

 France

Net EU contribution

€ 456 353,00

Address

9 rond point champs-elysees-marcel dassault

75008 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,75



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

 Germany

Net EU contribution

€ 484 787,00

Address

Linder hohe

51147 Koln 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,50



INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE

 France

Net EU contribution

€ 295 000,00

Address

Domaine de voluceau rocquencourt

78153 Le chesnay cedex 

Region

Ile-de-France > Ile-de-France > Yvelines

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IRT ANTOINE DE SAINT EXUPERY

 France

Net EU contribution

€ 532 801,00

Address

B 612 - cs 34436, 3 rue tarfaya
31400 Toulouse 

SME 

Yes

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,25



ETHNICON METSOVION POLYTECHNION

 Greece

Net EU contribution

€ 220 000,00

Address

Heroon polytechniou 9 zographou campus

157 80 Athina 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



OPTIMAD ENGINEERING SRL

 Italy

Net EU contribution

€ 449 125,00

Address

Via bligny 5

10122 Torino 

SME 

Yes

Region

Nord-Ovest > Piemonte > Torino

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SAFRAN SA

 France

Net EU contribution

€ 274 386,00

Address

Bldv du gal martial valin 2

75015 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,25



UNIVERSITA DEGLI STUDI DI CAGLIARI

Italy

Net EU contribution

€ 372 000,00

Address

Via universita 40
09124 Cagliari

Region

Isole > Sardegna > Cagliari

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



FUNDACION CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES VICOMTECH

Spain

Net EU contribution

€ 192 325,00

Address

Paseo mikeltegi parque tecnologico de miramon 57
20009 Donostia san sebastian

SME

Yes

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ERDYN CONSULTANTS SARL

 France

Net EU contribution

€ 221 500,00

Address

Rue vergniaud 23

75013 Paris 

SME 

Yes

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ASOUTI V & SIA OE

 Greece

Net EU contribution

€ 60 000,00

Address

Makras stoas 3

185 31 Piraeus



SME

Yes

Region

Αττική > Αττική > Πειραιάς

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00

Partners (3)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data



ROLLS-ROYCE PLC

United Kingdom

Net EU contribution

€ 0,00

Address

Kings place 90 york way

N1 9FX London

Region

London > Inner London — West > Camden and City of London

Activity type

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

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data



THE UNIVERSITY OF SHEFFIELD

United Kingdom

Net EU contribution

€ 0,00

Address

Firth court western bank

S10 2TN Sheffield

Region

Yorkshire and the Humber > South Yorkshire > Sheffield

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data

Last update: 26 August 2022

Permalink: <https://cordis.europa.eu/project/id/101056732>

European Union, 2024

SOLID-STATE LITHIUM METAL BATTERY WITH IN SITU HYBRID ELECTROLYTE

Fact Sheet

Project Information

SEATBELT

Grant agreement ID: 101069726

DOI

[10.3030/101069726](https://doi.org/10.3030/101069726)

EC signature date

8 June 2022

Start date

1 July 2022

End date

30 June 2026

Funded under

Climate, Energy and Mobility

Total cost

€ 8 252 035,00

EU contribution

€ 8 252 034,75

Coordinated by

CENTRE NATIONAL DE LA
RECHERCHE SCIENTIFIQUE
CNRS

 France

Project description

Driving a new generation of lithium batteries

Electric vehicles are powered by batteries, which are the most important part. But the demand for electric vehicles is increasing so fast that it will soon outpace battery cell production. The EU-funded SEATBELT project will help to pave the road towards a cost-effective, robust all-solid-state lithium battery comprising sustainable materials by 2026. Specifically, it will achieve the first technological milestone of developing a battery cell that meets the needs of the electric vehicle industry. The low cost cell will be safe by design with sustainable and recyclable materials, reaching high energy

densities and long cyclability in line with the 2030 EU targets. The project will be the start point of the first EU all solid-state battery value chain.

Fields of science

[engineering and technology](#) > [environmental engineering](#) > [waste management](#) > [waste treatment processes](#) > **[recycling](#)**

[natural sciences](#) > [chemical sciences](#) > [electrochemistry](#) > **[electric batteries](#)**

[social sciences](#) > [social geography](#) > [transport](#) > **[electric vehicles](#)**

[natural sciences](#) > [chemical sciences](#) > [inorganic chemistry](#) > **[alkali metals](#)**

Keywords

[Batteries](#)

[Li metal batteries](#)

[all-solid-state batteries](#)

[Generation 4b battery](#)

[LFMP cathode](#)

[recycling process](#)

[safety](#)

[operando methodologies](#)

[EV](#)

[stationary](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.9 - Energy Storage](#)

Topic(s)

[HORIZON-CL5-2021-D2-01-03 - Advanced high-performance Generation 4a, 4b \(solid-state\) Li-ion batteries supporting electro mobility and other applications \(Batteries Partnership\)](#)

Call for proposal

[HORIZON-CL5-2021-D2-01](#)

[See other projects for this call](#)

Funding Scheme

Coordinator



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Net EU contribution

€ 1 394 786,25

Address

Rue michel ange 3

75794 Paris

 France 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (21)

 THIRD-PARTY 

INSTITUT POLYTECHNIQUE DE GRENOBLE

 France

Net EU contribution

€ 104 335,00

Address

Avenue felix viallet 46

38031 Grenoble cedex 1 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 THIRD-PARTY 

UNIVERSITE GRENOBLE ALPES

 France

Net EU contribution

€ 90 600,00

Address

621 avenue centrale

38058 Grenoble 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 THIRD-PARTY 

UNIVERSITE SAVOIE MONT BLANC

 France

Net EU contribution

€ 26 425,00

Address

Rue marcoz 27 domaine universitaire

73011 Chambéry 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Savoie

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 France

Net EU contribution

€ 783 043,00

Address

Rue leblanc 25

75015 Paris 15 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



POLYKEY POLYMERS SL

 Spain

Net EU contribution

€ 240 813,00

Address

Avenida tolosa 72
20018 San sebastian 

SME 

Yes

Region

Noreste > País Vasco > Gipuzkoa

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



LIFE CYCLE ENGINEERING SPA

 Italy

Net EU contribution

€ 313 125,00

Address

Via tenente morello 13
10081 Castellamonte to 

SME 

Yes

Region

Nord-Ovest > Piemonte > Torino

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTRE DE RECHERCHES METALLURGIQUES ASBL

 Belgium

Net EU contribution

€ 512 793,00

Address

Rue ravenstein 4

1000 Bruxelles / brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

ADVANCED COATINGS & CONSTRUCTION SOLUTIONS

 Belgium

Net EU contribution

€ 203 383,00

Address

Allée de l'innovation 1 - b57 quartier polytech 3

4000 Liege 

Region

Région wallonne > Prov. Liège > Arr. Liège

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

Other funding

€ 0,00



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

 Spain

Net EU contribution

€ 304 896,00

Address

Calle serrano 117

28006 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,25



BLUE SOLUTIONS

 France

Net EU contribution

€ 1 308 125,00

Address

Odet

29500 Ergue gaberic 

Region

Bretagne > Bretagne > Finistère

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITAET MUENSTER

 Germany

Net EU contribution

€ 478 838,00

Address

Schlossplatz 2

48149 Muenster 

Region

Nordrhein-Westfalen > Münster > Münster, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA

 Spain

Net EU contribution

€ 191 125,00

Address

Barrio sarriena s n

48940 Leioa 

Region

Noreste > País Vasco > Bizkaia

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

BASQUE CENTER FOR MACROMOLECULAR DESIGN AND ENGINEERING POLYMAT FUNDAZIOA

 Spain

Net EU contribution

€ 333 985,00

Address

Calle ibaeta campus upv ehu 72

20018 Donostia san sebastian 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ZENTRUM FUR SONNENENERGIE- UND WASSERSTOFF-FORSCHUNG BADEN-WURTTENBERG

 Germany

Net EU contribution

€ 513 987,50

Address

Meitnerstrasse 1
70563 Stuttgart 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC ENERGIGUNE FUNDAZIOA

 Spain

Net EU contribution

€ 303 520,00

Address

Calle albert einstein 48 parque tecnologico de alava
01510 Minano alava 

Region

Noreste > País Vasco > Araba/Álava

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




INSTITUT MAX VON LAUE - PAUL LANGEVIN

 France

Net EU contribution

€ 165 000,00

Address

71 avenue des martyrs
38000 Grenoble 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




RENAULT SAS

 France

Net EU contribution

€ 219 630,00

Address

122-122b avenue du general leclerc
92100 Boulogne billancourt 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



EURO SUPPORT ADVANCED MATERIALS BV

 Netherlands

Net EU contribution

€ 272 125,00

Address

Liessentstraat 9 f

5405 AH Uden 

SME 

Yes

Region

Zuid-Nederland > Noord-Brabant > Noordoost-Noord-Brabant

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

ES SPECIAL PRODUCTS BV

 Netherlands

Net EU contribution

€ 55 062,50

Address

Stadsring 99

3811 HP Amersfoort 

Region

West-Nederland > Utrecht > Utrecht

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 THIRD-PARTY 

EURO SUPPORT BV

 Netherlands

Net EU contribution

€ 70 187,50

Address

Stadsring 99

3811 HP Amersfoort 

Region

West-Nederland > Utrecht > Utrecht

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTRUM PRE VYUZITIE POKROCILYCH MATERIALOV SLOVENSKEJ AKADEMIE VIED

 Slovakia

Net EU contribution

€ 366 250,00

Address

Dubravska cesta 5807/9

845 11 Bratislava 

Region

Slovensko > Bratislavský kraj > Bratislavský kraj

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (1)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 24 June 2022

Permalink: <https://cordis.europa.eu/project/id/101069726>

European Union, 2024

Reliability, Resilience and Defense technology for the grid

Fact Sheet

Project Information

R2D2

Grant agreement ID: 101075714

DOI

[10.3030/101075714](https://doi.org/10.3030/101075714) 

EC signature date

29 August 2022

Start date

1 October 2022

End date

30 September 2025

Funded under

Climate, Energy and Mobility

Total cost

€ 9 747 375,00

EU contribution

€ 7 335 337,50

Coordinated by

ETRA INVESTIGACION Y
DESARROLLO SA



Spain

Objective

R2D2 strategic goal is to improve the resilience and reliability of current EPES (Electrical Power and Energy Systems) against a growing number of threats and vulnerabilities that may affect such critical infrastructure, exposing weaknesses with harmful and damaging effects on different stakeholders and final customers.

This will be done through the deployment of four tools dedicated to the prevention, protection and restoration of EPES in two different independent but complementary scenarios in the energy value-chain – from regional coordination between TSOs, to privacy of LV customers. The project will build on top of strong energy coordination actions in South-East Europe (SEE), following EU legislation and in alignment with the recent activities promoted by ENTSO-E about cyber-security in transmission systems.

Through the demonstration and integration of the innovative solutions proposed by R2D2, it will be possible to achieve a more secure, reliable and resilient energy system in Europe, making a positive and tangible impact throughout the European EPES value chain. In this context, R2D2 will deliver a palette of complementary solutions synthesised into four Products: “Multi-risk assessment framework for power system” (P1 – C3PO), “Resilience suite for TSO & DSO” (P2 - IRIS), “Prevention Systems For Energy Infrastructures Security” (P3 - PRECOG) and “Enhanced Assets Maintenance And Management Toolkit” (P4 - EMMA).

Fields of science

[natural sciences](#) > [computer and information sciences](#) > **[computer security](#)**

Keywords

[Reliability](#)

[Resilience](#)

[Electrical Power and Energy Systems](#)

[Distribution](#)

[Transmission](#)

[Cyber-security](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.3 - Energy Systems and Grids](#)

Topic(s)

[HORIZON-CL5-2021-D3-02-07 - Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy](#)

Call for proposal

[HORIZON-CL5-2021-D3-02](#)

[See other projects for this call](#)

Funding Scheme

Coordinator



ETRA INVESTIGACION Y DESARROLLO SA

Net EU contribution

€ 903 656,25

Address

Calle tres forques 147

46014 Valencia

 **Spain** 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 387 281,25

Participants (16)



S2 GRUPO SOLUCIONES DE SEGURIDAD SL

 **Spain**

Net EU contribution

€ 417 550,00

Address

Calle ramiro de maeztu 7 bajo

46022 Valencia 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 178 950,00



ELPROS ELEKTRONSKI IN PROGRAMSKI SISTEMI DOO

 Slovenia

Net EU contribution

€ 389 375,00

Address

Verovskova ulica 64 a

1000 Ljubljana 

SME 

Yes

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 166 875,00



GUARDTIME OU

 Estonia

Net EU contribution

€ 495 468,75

Address

A h tammsaare tee 60 kristiine district

11316 Tallinn 

SME 

Yes

Region

Eesti > Eesti > Põhja-Eesti

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 212 343,75



CYBER NOESIS PROIGMENES TECHNOLOGIKES LYSEIS IDIOTIKI KEFALAIOUCHIKI ETAIREIA

 Greece

Net EU contribution

€ 346 500,00

Address

Argonafton 65

151 25 Marousi 

SME 

Yes

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 148 500,00



EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON

 Greece

Net EU contribution

€ 661 875,00

Address

Patision 42

106 82 Athina 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE

 North Macedonia

Net EU contribution

€ 260 625,00

Address

Blvd goce delcev 9

1000 Skopje 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTAR ZA KOORDINACIJU SIGURNOSTI SCC DOO BEOGRAD-VOZDOVAC

Serbia

Net EU contribution

€ 581 787,50

Address

Vojvode stepe 412

11000 Beograd

Region

Србија - север > Београдски регион > Београдска област

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 249 337,50



EMS SERVICES DOO BEOGRAD-VOZDOVAC

Serbia

Net EU contribution

€ 319 812,50

Address

Vojvode stepe 412

11000 Beograd

Region

Србија - север > Београдски регион > Београдска област

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 137 062,50



DIACHEIRISTIS ELLINIKOU DIKTYOU DIANOMIS ELEKTRIKIS ENERGEIAS AE

 Greece

Net EU contribution

€ 433 562,50

Address

Perraivou 20 kallirrois odos 5

117 43 Athina 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 185 812,50



ELEKTRO LJUBLJANA PODJETJE ZADISTRIBUCIJO ELEKTRICNE ENERGIJE D.D.

 Slovenia

Net EU contribution

€ 215 250,00

Address

Slovenska cesta 58

1000 Ljubljana 

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 92 250,00



ELEKTRO LJUBLJANA OVE, INZENIRING SPODROCJA OBNOVLJIVIH VIROV ENERGIJE, D.O.O.

 Slovenia

Net EU contribution

€ 193 812,50

Address

Slovenska cesta 56

1000 Ljubljana 

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 83 062,50



CNET CENTRE FOR NEW ENERGY TECHNOLOGIES SA

 Portugal

Net EU contribution

€ 408 187,50

Address

Rua cidade de goa 4
2685 039 Sacavem e prior velho lisboa 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 174 937,50

 **THIRD-PARTY** 

EDP ESPANA SA

 Spain

Net EU contribution

€ 277 375,00

Address

Plaza de la gesta 2
33007 Oviedo 

Region

Noroeste > Principado de Asturias > Asturias

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 118 875,00



INSTITUT MIHAJLO PUPIN

 Serbia

Net EU contribution

€ 417 375,00

Address

Volgina 15
11060 Beograd 

Region

Србија - север > Београдски регион > Београдска област

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITY OF CYPRUS

 Cyprus

Net EU contribution

€ 367 375,00

Address

Avenue panepistimiou 2109 aglantzi

1678 Nicosia 

Region

Κύπρος > Κύπρος > Κύπρος

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



RTE INTERNATIONAL

 France

Net EU contribution

€ 645 750,00

Address

2 place des vosges - la defense 5
92400 Courbevoie 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 276 750,00

Partners (1)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 13 September 2022

Permalink: <https://cordis.europa.eu/project/id/101075714>

European Union, 2024

SCALING-UP OF A HIGHLY MODULAR ROTATING PACKED BED PLANT WITH AN EFFICIENT SOLVENT FOR CAPTURE COST REDUCTION


Fact Sheet

Project Information

HiRECORD

Grant agreement ID: 101075727

DOI

[10.3030/101075727](https://doi.org/10.3030/101075727) 

EC signature date

23 August 2022

Start date

1 November 2022

End date

31 October 2026

Funded under

Climate, Energy and Mobility


Total cost

€ 6 330 101,25

EU contribution

€ 6 330 101,25

Coordinated by

ETHNIKO KENTRO EREVNAS
KAI TECHNOLOGIKIS
ANAPTYXIS
 Greece

Project description

Rotating packed beds can enhance post-combustion CO₂ capture

Rotating packed beds (RPBs) have gained increasing attention recently for their potential in process intensification. RPBs rely on centrifugal force to increase the contact of different phases such as liquid-solid or liquid-gas, thus enhancing mass transfer between the two. In the case of post-combustion CO₂ capture from flue gases, this also enables a reduction in absorber and desorber sizes. The EU-funded HiRECORD project will demonstrate the high-tech readiness of a modular CO₂

capture plant comprising a RPB absorber and advanced RPB desorber with integrated spinning reboiler and advanced, greener solvent. The system will cut CO2 capture costs in half compared to conventional technologies while significantly lowering the environmental and safety impacts.

Fields of science

[engineering and technology](#) > [chemical engineering](#) > [chemical process engineering](#)

[engineering and technology](#) > [environmental engineering](#) > [carbon capture engineering](#)

Keywords

[Rotating Packed Bed](#)

[Solvent](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.2 - Energy Supply](#)

Topic(s)

[HORIZON-CL5-2021-D3-02-13 - Cost reduction of CO2 capture \(new or improved technologies\)](#)

Call for proposal

[HORIZON-CL5-2021-D3-02](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS

Net EU contribution

€ 792 562,50

Address

Charilaou thermi road 6 km

57001 Thermi thessaloniki

 Greece 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (8)



ARISTOTELIO PANEPISTIMIO THESSALONIKIS

 Greece

Net EU contribution

€ 648 863,75

Address

Kedea building, tritis septemvriou, aristotle university campus

546 36 Thessaloniki 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TECHNISCHE UNIVERSITAET WIEN

 Austria

Net EU contribution

€ 395 363,75

Address

Karlsplatz 13

1040 Wien 

Region

Ostösterreich > Wien > Wien

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

 Netherlands

Net EU contribution

€ 228 068,75

Address

Anna van buerenplein 1

2595 DA Den haag 

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



JULIUS MONTZ GMBH

 Germany

Net EU contribution

€ 295 000,00

Address

Hofstrasse 82

40723 Hilden 

Region

Nordrhein-Westfalen > Düsseldorf > Mettmann

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ELPEDISON PARAGOGI ILEKTRIKISENERGEIAM MONOPROSOPI ANONYMOS ETAIREIA

 Greece

Net EU contribution

€ 1 473 201,25

Address

Fragokklisias 6

151 25 Athina 

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



**CAO HELLAS THESSALIKI ASVESTOPOIIA MONOPROSOPI ANONYMI
ETAIREIA PARAGOGIS KAI EMPORIAS ASVESTOU KAI LOIPON DOMIKON KAI
CHIMIKON ILON**

 Greece

Net EU contribution

€ 1 062 500,00

Address

6th km. odou lagada

56429 Nea efkarpia 

SME 

Yes

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TOTALENERGIES ONETECH

 France

Net EU contribution

€ 1 314 541,25

Address

2 place jean millier
92400 Courbevoie 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




SYNDESMOS EXAGOGEON

 Greece

Net EU contribution

€ 120 000,00

Address

PI morihonou 1
54625 Thessaloniki 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Other

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (4)



UNIVERSITY OF NEWCASTLE UPON TYNE

United Kingdom

Net EU contribution

€ 0,00

Address

Kings gate

NE1 7RU Newcastle upon tyne

Region

North East (England) > Northumberland and Tyne and Wear > Tyneside

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data



RICHARD ALAN ENGINEERING COMPANY LTD

United Kingdom

Net EU contribution

€ 0,00

Address

**Richard alan house, shaw cross busi
WF12 7RD Dewsbury**

Region

Yorkshire and the Humber > West Yorkshire > Calderdale and Kirklees

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

No data



CARBON CLEAN SOLUTIONS LIMITED

United Kingdom

Net EU contribution

€ 0,00

Address

**47 castle street
RG1 7SR Reading berkshire**

SME

Yes

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 12 September 2022

Permalink: <https://cordis.europa.eu/project/id/101075727>

European Union, 2024

Delivering the next generation of open Integrated Assessment MOdels for Net-zero, sustainable Development

Fact Sheet

Project Information

DIAMOND

Grant agreement ID: 101081179

DOI

[10.3030/101081179](https://doi.org/10.3030/101081179) 

EC signature date

4 October 2022

Start date

1 December 2022

End date

30 November 2026

Funded under

Climate, Energy and Mobility

Total cost

€ 3 850 922,50

EU contribution

€ 3 850 922,50

Coordinated by

EREVNITIKO PANEPISTIMIAKO
INSTITOUTO SYSTIMATON
EPIKOINONION KAI
YPOLOGISTON

 Greece

Project description

Enhancing modelling tools to meet ambitious climate change goals

Integrated assessment models (IAMs) are providing insight into how socioeconomic behaviour influences climate change and guiding policymaking. Although IAMs have advanced significantly, their design, implementation and capabilities have been criticised for failing to tackle new questions or ones that have not been addressed with respect to the Paris Agreement and the net zero aim. The EU-funded DIAMOND project intends to renew, improve and launch six IAMs that represent scientific and

policy procedures. It will improve modelling to better evaluate the viability and appropriateness of mitigation routes in line with the Paris Agreement. Moreover, it will investigate how these pathways interact with adaptation, the circular economy and other United Nations Sustainable Development Goals.

Fields of science

[social sciences](#) > [sociology](#) > [governance](#) > **[crisis management](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > **[climatology](#)**

[social sciences](#) > [economics and business](#) > [business and management](#) > **[employment](#)**

[social sciences](#) > [economics and business](#) > [economics](#) > **[sustainable economy](#)**

[natural sciences](#) > **[physical sciences](#)**

Keywords

[integrated assessment models](#)

[transparency](#)

[open science](#)

[communities of practice](#)

[capacity development](#)

[interdisciplinary science](#)

[transdisciplinary science](#)

[sustainable development](#)

[impacts](#)

[finance](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.1 - Climate Science and Solutions](#)

Topic(s)

[HORIZON-CL5-2022-D1-02-03 - Improvement of Integrated Assessment Models in support of climate policies](#)

Call for proposal

[HORIZON-CL5-2022-D1-02](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator





EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON

Net EU contribution

€ 914 298,75

Address

Patision 42
106 82 Athina
 **Greece** 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (13)



ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI

 Spain

Net EU contribution

€ 501 093,75

Address

Edificio 1 planta 1 parque científico de upv/ehu barrio sarriena
48940 Leioa 

Region

Noreste > País Vasco > Bizkaia

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



KRATENA KURT

 Austria

Net EU contribution

€ 129 950,00

Address



Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CICERO SENTER FOR KLIMAFORSKNING

 Norway

Net EU contribution

€ 337 500,00

Address

Gaustadalleen 21

0349 Oslo 

Region

Norge > Oslo og Viken > Oslo

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THE CYPRUS INSTITUTE

 Cyprus

Net EU contribution

€ 199 700,00

Address

Constantinou kavafi 20

2121 Nicosia 

Region

Κύπρος > Κύπρος > Κύπρος

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ENERGY ENGINEERING ECONOMIC ENVIRONMENT SYSTEMS MODELING AND ANALYSIS SRL

 Italy

Net EU contribution

€ 400 000,00

Address

Via livorno 60

10144 Torino 

SME 

Yes

Region

Nord-Ovest > Piemonte > Torino

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



HOLISTIC IKE

 Greece

Net EU contribution

€ 150 187,50

Address

L.mesogeion 507

153 43 Agia paraskevi 

SME 

Yes

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSIDAD PONTIFICIA COMILLAS

Spain

Net EU contribution

€ 158 090,00

Address

Calle alberto aguilera 23

28015 Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



ISTITUTO DI STUDI PER L'INTEGRAZIONE DEI SISTEMI (I.S.I.S) - SOCIETA'COOPERATIVA

Italy

Net EU contribution

€ 261 125,00

Address

Via sistina 42

00187 Roma

SME

Yes

Region

Centro (IT) > Lazio > Roma

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SEURECO SOCIETE EUROPEENNE D'ECONOMIE SARL

 France

Net EU contribution

€ 260 000,00

Address

9 rue du chateaudun

75009 Paris 

SME 

Yes

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITEIT MAASTRICHT

 Netherlands

Net EU contribution

€ 250 227,50

Address

Minderbroedersberg 4

6200 MD Maastricht 

Region

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ESMIA CONSULTANTS INC.

 Canada

Net EU contribution

€ 137 500,00

Address

Rue de chaumont

J7B 6B4 Blainville 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THE UNIVERSITY OF MARYLAND FOUNDATIION INC

 United States

Net EU contribution

€ 0,00

Address

Metzerott road 3300

20783 Adelphi 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

University System of Maryland

 United States

Net EU contribution

€ 151 250,00

Address

Metzerott road 3300

MD 20783-1690 Adelphi 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (6)



ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

 Switzerland

Net EU contribution

€ 0,00

Address

Batiment ce 3316 station 1

1015 Lausanne 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 Switzerland

Net EU contribution

€ 0,00

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&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITAT BASEL

 Switzerland

Net EU contribution

€ 0,00

Address

Petersplatz 1
4051 Basel 

Region

Schweiz/Suisse/Svizzera > Nordwestschweiz > Basel-Stadt

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD

 United Kingdom

Net EU contribution

€ 0,00

Address

Wellington square university offices
OX1 2JD Oxford 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



UNIVERSITY COLLEGE LONDON

 United Kingdom

Net EU contribution

€ 0,00

Address

Gower street
WC1E 6BT London 

Region

London > Inner London — West > Camden and City of London

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 10 October 2022

Permalink: <https://cordis.europa.eu/project/id/101081179>

European Union, 2024

Socioeconomic Pathways, Adaptation and Resilience to Changing CLimate in Europe

Fact Sheet

Project Information

SPARCCL

Grant agreement ID: 101081369

DOI

[10.3030/101081369](https://doi.org/10.3030/101081369)

EC signature date

24 April 2023

Start date

1 September 2023

End date

28 February 2027

Funded under

Climate, Energy and Mobility

Total cost

€ 4 610 850,00

EU contribution

€ 4 610 787,50

Coordinated by

INTERNATIONALES INSTITUT
FUER ANGEWANDTE
SYSTEMANALYSE

 Austria

Project description

Advanced projections of climate change impact on socioeconomics

Climate change has significant impacts on humans, ecosystems, and our economy. To effectively prepare Europe, integrated assessment of the risks and options for reducing emissions and adapting to impacts are required. The EU-funded SPARCCL project will develop cutting-edge methodological capabilities across climate science, demography, and economics. This will involve detailed scenario projections of our society and the impacts of extreme events on people, infrastructure, businesses, and the environment. Co-development of scenarios with

private and public sector stakeholders aims to ensure relevance of the findings and data products to a broad audience. Through developing mitigation and adaptation pathways, SPARCCE will deliver actionable insights to policymakers and institutions to assist them in their efforts to urgently deliver a climate resilient, just, and net-zero transition.

Fields of science

[social sciences](#) > [sociology](#) > [demography](#)

[social sciences](#) > [sociology](#) > [social issues](#) > [social inequalities](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > [climatic changes](#)

[social sciences](#) > [economics and business](#) > [economics](#) > [sustainable economy](#)

Keywords

[socioeconomic change](#)

[adaptation](#)

[climate risk](#)

[integrated assessment](#)

[mitigation](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.1 - Climate Science and Solutions](#)

Topic(s)

[HORIZON-CL5-2022-D1-01-02-two-stage - Socio-economic risks of climate change in Europe](#)

Call for proposal

[HORIZON-CL5-2022-D1-01-two-stage](#)

[See other projects for this call](#)

Funding Scheme

Coordinator



INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE

Net EU contribution

€ 1 296 312,50

Address

Schlossplatz 1
2361 Laxenburg
 Austria 

Region

Ostösterreich > Niederösterreich > Wiener Umland/Südteil

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 62,50

Participants (8)




FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI

 Italy

Net EU contribution

€ 488 625,00

Address

Via marco biagi 5
73100 Lecce 

Region

Sud > Puglia > Lecce

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CLIMATE ANALYTICS GMBH

 Germany

Net EU contribution

€ 784 312,50

Address

Ritterstrasse 3

10969 Berlin 

SME 

Yes

Region

Berlin > Berlin > Berlin

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



POTSDAM-INSTITUT FUR KLIMAFOLGENFORSCHUNG EV

 Germany

Net EU contribution

€ 425 875,00

Address

Telegrafenberg a31
14473 Potsdam 

Region

Brandenburg > Brandenburg > Potsdam

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



VRIJE UNIVERSITEIT BRUSSEL

 Belgium

Net EU contribution

€ 347 162,50

Address

Pleinlaan 2

1050 Bruxelles / brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



E3-MODELLING AE

 Greece

Net EU contribution

€ 483 625,00

Address

Panormou 70-72

11523 Athina 

SME 

Yes

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



INSTYTUT OCHRONY ŚRODOWISKA - PAŃSTWOWY INSTYTUT BADAWCZY

 Poland

Net EU contribution

€ 200 000,00

Address

Ulica ślowicza 32

02-170 Warszawa 

Region

Makroregion województwo mazowieckie > Warszawski stołeczny > Miasto Warszawa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



MINISTERIE VAN INFRASTRUCTUUR EN WATERSTAAT

 Netherlands

Net EU contribution

€ 303 250,00

Address

Rijnstraat 8

2500 EX Den haag 

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITA DEGLI STUDI DI FIRENZE

 Italy

Net EU contribution

€ 281 625,00

Address

Piazza san marco 4

50121 Florence 

Region

Centro (IT) > Toscana > Firenze

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (3)



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 Switzerland

Net EU contribution

€ 0,00

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&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

 Belgium

Net EU contribution

€ 0,00

Address

Rue de la loi 200
1049 Bruxelles / brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 28 June 2023

Permalink: <https://cordis.europa.eu/project/id/101081369>

Highly Efficient Super Critical ZERO eMission Energy System

Fact Sheet

Project Information

HERMES

Grant agreement ID: 101083748

DOI

[10.3030/101083748](https://doi.org/10.3030/101083748) 

EC signature date

4 October 2022

Start date

1 November 2022

End date

31 October 2025

Funded under

Climate, Energy and Mobility

Total cost

€ 2 594 660,00

EU contribution

€ 2 594 660,00

Coordinated by

UNIVERSITEIT TWENTE

 Netherlands

Project description

Greening the gas turbines

Gas turbines are the cleanest conventional energy source. The EU-funded HERMES project will advance gas turbine technology. Specifically, it will develop the first highly efficient closed-loop supercritical zero-emission energy system. This new system is based on locally synthesised renewable liquid and gaseous fuels (methanol or hydrogen) coupled with decentralised carbon capture utilisation and storage. By operating at high-pressure conditions (above 150 bar), the system achieves significantly higher efficiency (above 65 %) than today's gas turbines. The system also produces no pollutants since it uses pure oxygen for fuel oxidation and captures

the bulky flow of exhaust products (H₂O and/or CO₂) and reuses them for fuel synthesis.

Fields of science

[natural sciences](#) > [chemical sciences](#) > [inorganic chemistry](#) > **[noble gases](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > **[environmental sciences](#)**

[engineering and technology](#) > [environmental engineering](#) > **[energy and fuels](#)**

[engineering and technology](#) > [environmental engineering](#) > **[carbon capture engineering](#)**

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > **[simulation software](#)**

Keywords

[Zero emission closed-loop renewable system](#)

[supercritical fluids](#)

[high pressure gas turbines](#)

[decentralized fuel synthesis with CCUS](#)

[techno-economic](#)

[environmental](#)

[social](#)

[policy assessment](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.2 - Energy Supply](#)

Topic(s)

[HORIZON-CL5-2021-D3-03-02 - Next generation of renewable energy technologies](#)

Call for proposal

[HORIZON-CL5-2021-D3-03](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



UNIVERSITEIT TWENTE

Net EU contribution

€ 574 700,00

Address

Drienerlolaan 5

7522 NB Enschede

 **Netherlands** 

Region

Oost-Nederland > Overijssel > Twente

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (7)



ETHNICON METSOVION POLYTECHNION

 **Greece**

Net EU contribution

€ 372 750,00

Address

Heroon polytechniou 9 zographou campus

157 80 Athina 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



EXERGIA ENERGY AND ENVIRONMENT CONSULTANTS AE

 Greece

Net EU contribution

€ 248 875,00

Address

15 voukourestiou str

106 71 Athina 

SME 

Yes

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




TEC4FUELS

 Germany

Net EU contribution

€ 283 750,00

Address

Kaiserstrasse 100
52134 Herzogenrath 

SME 

Yes

Region

Nordrhein-Westfalen > Köln > Städteregion Aachen

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




OWI SCIENCE FOR FUELS GMBH

 Germany

Net EU contribution

€ 265 210,00

Address

Kaiserstrasse 100
52134 Herzogenrath 

Region

Nordrhein-Westfalen > Köln > Städteregion Aachen

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTRE EUROPEEN DE RECHERCHE ET DEFORMATION AVANCEE EN CALCUL SCIENTIFIQUE

 France

Net EU contribution

€ 293 750,00

Address

Avenue g coriolis 42
31057 Toulouse cedex 

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



OPRA ENGINEERING SOLUTIONS BV

 Netherlands

Net EU contribution

€ 140 625,00

Address

Haaksbergerstraat 71
7554 PA Hengelo 

SME 

Yes

Region

Oost-Nederland > Overijssel > Twente

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



POLITECHNIKA WROCLAWSKA

 Poland

Net EU contribution

€ 415 000,00

Address

Wybrzeże wyspińskiego 27

50-370 Wrocław 

Region

Makroregion południowo-zachodni > Dolnośląskie > Miasto Wrocław

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (3)



PAUL SCHERRER INSTITUT

 Switzerland

Net EU contribution

€ 0,00

Address

Forschungstrasse 111

5232 Villigen psi 

Region

Schweiz/Suisse/Svizzera > Nordwestschweiz > Aargau

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

 Switzerland

Net EU contribution

€ 0,00

Address

Batiment ce 3316 station 1

1015 Lausanne 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 10 October 2022

Permalink: <https://cordis.europa.eu/project/id/101083748>

European Union, 2024

Transformative Digital Air Vehicle with IoT Sensors for Safer Urban Skies

Fact Sheet

Project Information

AVATAR

Grant agreement ID: 101096073

DOI

[10.3030/101096073](https://doi.org/10.3030/101096073) 

EC signature date

30 November 2022

Start date

1 February 2023

End date

31 January 2026

Funded under

Climate, Energy and Mobility

Total cost

€ 2 890 339,25

EU contribution

€ 2 890 339,25

Coordinated by

EVEKTOR SRO



Czechia

Objective

AVATAR is dedicated to developing a digital twin platform to enable continuous monitoring of the vehicle during its service life for the purpose predictive maintenance. AVATAR's digital twin model acts in parallel to the real structure and provides, where necessary, an early warning of operational behaviour that deviates from expected (simulated). Additionally, by recording the actual load spectrum that each air vehicle experiences during every flight, it will optimize the individual service life, which contributes towards a sustainable air mobility. AVATAR's will contribute to an increase safety of urban skies and has the potential to optimise the design and performance of air vehicles by providing real load data for each vehicle. The IoT sensing skin proposed by AVATAR is a key enabler for real-time critical operational information acquisition and connectivity between the physical aircraft and the digital

counterpart through wireless communication. AVATAR DT platform will provide a seamless integration of IoT, big data and machine learning to collect, compute and predict. AVATAR will conform to the modern approach towards developing a digital twin based on different types of data and advanced analytical methods which eliminates the need for the real air vehicle and the virtual models to be directly connected and builds this connection through ML and AI. AVATAR contributes to the acceleration of digital transformation of air mobility, particularly in urban setting.

Fields of science

[natural sciences](#) > [computer and information sciences](#) > [internet](#) > **[internet of things](#)**

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > **[big data](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > **[aircraft](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[sensors](#)**

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > **[machine learning](#)**

Keywords

[Digital Twin](#)

[IoT](#)

[Sensing skin](#)

[Structural Health Monitoring](#)

[Predictive maintenance](#)

[Advance Analytics](#)

[Cloud base solutions](#)

[Big Data](#)

[Diagnosis and Prognosis](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility](#)

[HORIZON.2.5.6 - Industrial Competitiveness in Transport](#)

Topic(s)

[HORIZON-CL5-2022-D5-01-13 - Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness](#)

Call for proposal

[HORIZON-CL5-2022-D5-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



EVEKTOR SRO

Net EU contribution

€ 873 641,25

Address

Letecka 1008

686 04 Kunovice

 Czechia 

Region

Česko > Střední Morava > Zlínský kraj

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (4)



TEKNOLOGISK INSTITUT

 Denmark

Net EU contribution

€ 591 250,00

Address

Gregersensvej 1
2630 Taastrup 

Region

Danmark > Hovedstaden > Københavns omegn

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 


[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITE DU LUXEMBOURG

 Luxembourg

Net EU contribution

€ 615 510,00

Address

2 avenue de l'universite
4365 Esch-sur-alzette 

Region

Luxembourg > Luxembourg > Luxembourg

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



NORDIC WING APS

 Denmark

Net EU contribution

€ 200 000,00

Address

Hangarvej 21 jonstrup
3500 Vaerlose 

SME 

Yes

Region

Danmark > Hovedstaden > Nordsjælland

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 


[HORIZON collaboration network](#) 

Other funding

€ 0,00



NTT LUXEMBOURG PSF SA

 Luxembourg

Net EU contribution

€ 609 938,00

Address

89 d rue de pafebruch
8308 Westside village capellen 

Region

Luxembourg > Luxembourg > Luxembourg

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (2)



LOUGHBOROUGH UNIVERSITY

 United Kingdom

Net EU contribution

€ 0,00

Address

Ashby road

LE11 3TU Loughborough 

Region

**East Midlands (England) > Leicestershire, Rutland and Northamptonshire > Leicestershire
CC and Rutland**

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 7 January 2023

Permalink: <https://cordis.europa.eu/project/id/101096073>

European Union, 2024

OPEN FAN VALIDATION FOR CARBON-FREE AIRCRAFTS


Fact Sheet

Project Information

PANDORA

Grant agreement ID: 101096156

DOI

[10.3030/101096156](https://doi.org/10.3030/101096156) 

EC signature date

21 November 2022

Start date

1 February 2023

End date

31 January 2027

Funded under

Climate, Energy and Mobility


Total cost

€ 4 255 536,00

EU contribution

€ 4 255 536,00

Coordinated by

UNIVERSIDAD POLITECNICA DE
MADRID
 Spain

Project description

Filling the gaps: experimental and numerical data supporting open fan concepts

Expanding urbanisation and increasing air travel mean more people are living in the vicinity of busy airports and noise is an important concern. Open fan engine concepts could reduce weight and emissions relative to conventional ducted fans, but they may be noisier. Further, the experimental data and modelling tools available to evaluate and refine open fan designs and reduce noise generation are limited. The EU-funded PANDORA project will address this gap with experimental data and advanced models. The team will collect experimental noise and performance data

from an unducted single fan for short/medium-range aircraft. The data will also help validate and expand the scope of numerical tools to improve further analysis.

Fields of science

[natural sciences](#) > [computer and information sciences](#) > **[databases](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > **[aircraft](#)**

Keywords

[Aeroengine](#)

[Noise Emissions](#)

[Testing](#)

[Simulation](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility](#)

[HORIZON.2.5.6 - Industrial Competitiveness in Transport](#)

Topic(s)

[HORIZON-CL5-2022-D5-01-12 - Towards a silent and ultra-low local air pollution aircraft](#)

Call for proposal

[HORIZON-CL5-2022-D5-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



UNIVERSIDAD POLITECNICA DE MADRID

Net EU contribution

€ 2 451 250,00

Address

Calle ramiro de maeztu 7 edificio rectorado

28040 Madrid

 **Spain** 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (4)



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

 **Germany**

Net EU contribution

€ 769 448,00

Address

Linder hohe

51147 Koln 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SAFRAN AIRCRAFT ENGINES

 France

Net EU contribution

€ 265 070,00

Address

Bvd du general martial valin 2
75015 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ECOLE CENTRALE DE LYON

 France

Net EU contribution

€ 737 268,00

Address

Avenue guy de collongue 36
69134 Ecully 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

Net EU contribution

€ 32 500,00

Address

Rue michel ange 3

75794 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (1)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 28 November 2022

Permalink: <https://cordis.europa.eu/project/id/101096156>

European Union, 2024

RE-thinking of approaches and toolkits for transdisciplinary INTEGRATED assessment of climate-compatible energy strategies from the African Union through to the European Union

Fact Sheet

Project Information

RE-INTEGRATE

Grant agreement ID: 101118217

DOI

[10.3030/101118217](https://doi.org/10.3030/101118217)

EC signature date

7 June 2023

Start date

1 September 2023

End date

28 February 2027

Funded under

Climate, Energy and Mobility

Total cost

€ 2 329 860,00

EU contribution

€ 2 329 860,00

Coordinated by

KUNGLIGA TEKNISKA

HOEGSKOLAN



Sweden

Objective

Scientific tools are widely applied across the EU and the AU to support strategic planning for climate-compatible development. They are used by national and local authorities, research institutes and civil society organisations, very often with the support of development partners, academia and consulting firms. They are an important part of the energy planning ecosystem. However, the scientific insights derived from these tools have not always supported the strategic energy planning

process successfully. Sometimes uncoordinated and biased approaches to model design and application by the involved actors on the EU and AU side have led to poor reflection of country-specific social, economic, and environmental conditions (Gardumi et al., 2022). The result is often a lack ownership and credibility and thus limited uptake in planning and policymaking processes. In order to address this gap, the overall aim of RE-INTEGRATE is to establish within existing energy planning ecosystems across the AU and EU an enabling and non-exclusive environment for the sharing of knowledge, fit-to-context modelling toolkits and modelling expertise on climate-compatible development. RE-INTEGRATE addresses the need – expressed in the Work Programme - for fostering modelling approaches and expertise in the AU, which are not heavily reliant on the developed countries, by structurally enabling multi-lateral sharing of knowledge and research infrastructure. While doing so, it develops and tests fit-for-purpose 3E models in 8 AU contexts, building on local expertise and analysing climate-compatible development pathways.

Fields of science

[natural sciences](#) > [biological sciences](#) > [ecology](#) > **[ecosystems](#)**

[social sciences](#) > [political sciences](#) > [political policies](#) > **[civil society](#)**

Keywords

[Knowledge sharing](#)

[Energy system models](#)

[Integrated Assessment](#)

[Climate-compatible development](#)

[Capacity development](#)

[Partnerships](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.2 - Energy Supply](#)

Topic(s)

[HORIZON-CL5-2022-D3-02-02 - AU-EU Energy System Modelling](#)

Call for proposal

[HORIZON-CL5-2022-D3-02](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



KUNGLIGA TEKNISKA HOEGSKOLAN

Net EU contribution

€ 373 518,75

Address

Brinellvagen 8

100 44 Stockholm

 **Sweden** 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (14)



E3-MODELLING AE

 **Greece**

Net EU contribution

€ 284 875,00

Address

Panormou 70-72

11523 Athina 

SME 

Yes

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

 Netherlands

Net EU contribution

€ 281 750,00

Address

**Anna van buerenplein 1
2595 DA Den haag** 

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITY OF CAPE TOWN

 South Africa

Net EU contribution

€ 167 325,00

Address

Private bag x3

7701 Rondebosch 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ADDIS ABABA UNIVERSITY

 Ethiopia

Net EU contribution

€ 124 000,00

Address

Addis ababa university

1176 Addis ababa 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TECHNISCHE UNIVERSITEIT DELFT

 Netherlands

Net EU contribution

€ 227 200,00

Address

Stevinweg 1
2628 CN Delft 

Region

West-Nederland > Zuid-Holland > Delft en Westland

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THE CYPRUS INSTITUTE

 Cyprus

Net EU contribution

€ 131 025,00

Address

Constantinou kavafi 20
2121 Nicosia 

Region

Κύπρος > Κύπρος > Κύπρος

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ECOLE NATIONALE D'INGENIEURS DE TUNIS

 Tunisia

Net EU contribution

€ 84 375,00

Address

Campus universitaire el manar

1002 Tunis 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITY OF MAURITIUS

 Mauritius

Net EU contribution

€ 70 812,50

Address

Redit

Redit 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITE CATHOLIQUE DE BUKAVU

 Democratic Republic of the Congo

Net EU contribution

€ 113 750,00

Address

02 avenue bugabo kadutu

Bukavu 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



STRATHMORE UNIVERSITY

 Kenya

Net EU contribution

€ 84 291,25

Address

Ole sangale road madaraka estate

00200 Nairobi 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TEKNOLOGIAN TUTKIMUSKESKUS VTT OY

 Finland

Net EU contribution

€ 90 000,00

Address

Tekniikantie 21
02150 Espoo 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Other funding

€ 0,00




DANMARKS TEKNISKE UNIVERSITET

 Denmark

Net EU contribution

€ 105 125,00

Address

Anker engelunds vej 101
2800 Kongens lyngby 





Region

Danmark > Hovedstaden > Københavns omegn

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITY OF ZAMBIA

 Zambia

Net EU contribution

€ 85 062,50

Address

Great east road campus

10101 Lusaka 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ENERGIE-ENVIRONNEMENT-DEVELOPPEMENT ENDA-ENERGIE

 Senegal

Net EU contribution

€ 106 750,00

Address

54 rue carnot

Dakar 

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (1)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road

SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 14 July 2023

Permalink: <https://cordis.europa.eu/project/id/101118217>

European Union, 2024

Smart, Aware, Integrated Wind Farm Control Interacting with Digital Twins (ICONIC)

Fact Sheet

Project Information

ICONIC

Grant agreement ID: 101122329

DOI

[10.3030/101122329](https://doi.org/10.3030/101122329) 

EC signature date

30 August 2023

Start date

1 December 2023

End date

30 November 2027

Funded under

Climate, Energy and Mobility

Total cost

€ 3 897 447,50

EU contribution

€ 3 897 447,50

Coordinated by

UNIVERSITEIT GENT

 Belgium

Objective

ICONIC aims to develop innovative physical and digital tools to achieve fundamental breakthroughs for the integrated control of wind farms, considering the whole physical system at farm, turbine, and component levels, in particular the complex aerodynamic interactions among turbines. ICONIC aims to increase farm-wide power production by 15-20% under optimal wind speeds and directions for typical wind farms suffering from wake effects, with a 3%-5% increase in annual energy production (AEP) considering all working conditions over the long term. It targets an LCOE reduction of at least 6% compared with the state-of-the-art control tools deployed in the current wind industry by improving farm-wide AEP and reducing

operation & maintenance costs via leveraging the latest AI and digital technologies. Extensive validations for the integrated wind farm control solutions will be conducted via high-fidelity simulation models, experiments at a national-level wind tunnel, historical operational data at BP's and C-Power's wind farms, a unique collection of test rigs for critical turbine components at respective companies, and real-world wind farm field tests at C-Power. ICONIC's integrated wind farm control system will contain (1) novel AI-based wind farm control system to unlock wind farms' full potential; (2) novel data-enhanced wind turbine controllers to fulfil farm-level commands while balancing power generation and load mitigation; (3) an integration with digital twins (DTs) as extra support to improve control and reduce costs, which contains a first-ever farm-level DT for wind farm flow systems replicating detailed physical flow fields and an innovative turbine-level DT with critical component models for loading and lifetime estimations; (4) extensions of the solutions to future 20MW turbines. ICONIC will establish new knowledge and industrial leadership in key digital, enabling and emerging technologies, and deliver next-generation tools for wind farm operation.

Fields of science

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > **[control systems](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > **[aircraft](#)**

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > [renewable energy](#) > **[wind power](#)**

Keywords

[wind farm control](#)

[artificial intelligence](#)

[digital twin](#)

[reinforcement learning](#)

[data-driven tool](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.2 - Energy Supply](#)

Topic(s)

Call for proposal

[HORIZON-CL5-2022-D3-03](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



UNIVERSITEIT GENT

Net EU contribution

€ 788 750,00

Address

Sint pietersnieuwstraat 25

9000 Gent

 Belgium 

Region

Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (10)



NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU

 Norway

Net EU contribution

€ 466 545,00

Address

Hogskoleringen 1
7491 Trondheim 

Region

Norge > Trøndelag > Trøndelag

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



AALBORG UNIVERSITET

 Denmark

Net EU contribution

€ 553 942,50

Address

Fredrik bajers vej 7k
9220 Aalborg 

Region

Danmark > Nordjylland > Nordjylland

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



KATHOLIEKE UNIVERSITEIT LEUVEN

 Belgium

Net EU contribution

€ 393 531,25

Address

Oude markt 13
3000 Leuven 

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




IKERLAN S. COOP

 Spain

Net EU contribution

€ 385 250,00

Address

P jose maria arizmendiarrieta 2
20500 Mondragon 

Region

Noreste > Pais Vasco > Gipuzkoa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




C-POWER NV

 Belgium

Net EU contribution

€ 321 750,00

Address

Buskruitstraat 1
8400 Oostende 

Region

Vlaams Gewest > Prov. West-Vlaanderen > Arr. Oostende

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THIRD-PARTY 

THORNTON BANK MAINTENANCE SERVICES

 Belgium

Net EU contribution

€ 108 000,00

Address

Esplanadestraat 1
8400 Ostend 

Region

Vlaams Gewest > Prov. West-Vlaanderen > Arr. Oostende

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



EDR & MEDESO AS

 Norway

Net EU contribution

€ 150 482,50

Address

Leif tronstads plass 4
1337 Sandvika 

Region

Norge > Oslo og Viken > Viken

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



LAU LAGUN BEARINGS SL

 Spain

Net EU contribution

€ 268 196,25

Address

Poligono harizti sn
20212 Olaberria 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SKF BV

 Netherlands

Net EU contribution

€ 167 250,00

Address

Meidoornkade 14

3992 AE Houten 

Region

West-Nederland > Utrecht > Utrecht

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ZF WIND POWER ANTWERPEN NV

 Belgium

Net EU contribution

€ 293 750,00

Address

Gerard mercatorstraat 40

3920 Lommel 

Region

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (4)



EMBOTECH AG

 Switzerland

Net EU contribution

€ 0,00

Address

Technoparkstrasse 1

8005 Zurich 

SME 

Yes

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



THE UNIVERSITY OF WARWICK

 United Kingdom

Net EU contribution

€ 0,00

Address

**Kirby corner road - university house
CV4 8UW Coventry** 

Region

West Midlands (England) > West Midlands > Coventry

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

**South kensington campus exhibition road
SW7 2AZ London** 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



BP INTERNATIONAL LIMITED

 United Kingdom

Net EU contribution

€ 0,00

Address

Chertsey road

TW16 7BP Sunbury on thames 

Region

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

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 14 September 2023

Permalink: <https://cordis.europa.eu/project/id/101122329>

European Union, 2024

Scale-resolving Simulations for Innovations in Turbomachinery Design

Fact Sheet

Project Information

Sci-Fi-Turbo

Grant agreement ID: 101138080

EC signature date

24 November 2023

Start date

1 January 2024

End date

30 June 2027

Funded under

Climate, Energy and Mobility


Total cost

€ 3 436 753,75

EU contribution

€ 3 436 753,75

Coordinated by

DEUTSCHES ZENTRUM FÜR
LUFT - UND RAUMFAHRT EV
 Germany

Objective

Sci-Fi-Turbo aims to revolutionise the aero engine design process by advancing and integrating high-order scale-resolving simulations (SRS) and optimization methodologies into standard industrial workflows. SRS are a key enabler for developing ultra-efficient propulsion systems that drastically reduce GHG emissions by 2035 and achieve the EU's target to be climate-neutral by 2050. The advancements will boost design process capabilities and reduce product development cycles.

Future engine concepts require opening up the design space and solving complex design problems out of reach for today's standard industrial design processes within the required timeframe. To achieve the necessary step change in engine design, a

similar step change is needed for the design approach. Sci-Fi-Turbo fills this urgent need by exploiting opportunities in three foundation technologies: High-performance computing, high-order numerical methods, and AI/ML. The combination is used to implement and demonstrate two key advancements. First, a highly integrated high-order SRS design process is established for modern CPU/GPU hardware, meeting robustness, accuracy, and turnaround time requirements. It will provide increased functionality and effectivity at an industrial level and pave the way for the uptake of SRS-based design by the industry. The high accuracy of the methodology will also reduce the need for low-TRL testing and enable new concepts and extended operating conditions. Second, an SRS-assisted multi-fidelity, data-driven optimisation framework is developed, which embeds and exploits the advantages of highly accurate high-order SRS while leveraging AI/ML methods to increase the predictive capability of lower-fidelity simulations and maximize overall process accuracy and speed. Dedicated experiments support the technology advancement and will enable the design of net-zero-emission engines in due time and contribute to the digital transformation of the aviation industry.

Fields of science

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > [computer hardware](#) > **[computer processors](#)**

[natural sciences](#) > [mathematics](#) > [applied mathematics](#) > **[numerical analysis](#)**

Keywords

[Scale-resolving simulations](#)

[machine-learning](#)

[data-driven turbulence modelling](#)

[multi-fidelity optimization](#)

[turbomachinery design](#)

[climate-neutral aviation](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility](#)

[HORIZON.2.5.6 - Industrial Competitiveness in Transport](#)

Topic(s)

Call for proposal

[HORIZON-CL5-2023-D5-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Net EU contribution

€ 1 032 120,00

Address

Linder hohe

51147 Koln

 Germany 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (7)



GENERAL ELECTRIC DEUTSCHLAND HOLDING GMBH

Germany

Net EU contribution

€ 303 340,00

Address

Bleichstrasse 64-66
60313 Frankfurt am main

Region

Hessen > Darmstadt > Frankfurt am Main, Kreisfreie Stadt

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



TECHNISCHE UNIVERSITAET BRAUNSCHWEIG

Germany

Net EU contribution

€ 304 437,50

Address

Universitaetsplatz 2
38106 Braunschweig

Region

Niedersachsen > Braunschweig > Braunschweig, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00



CENTRE DE RECHERCHE EN AERONAUTIQUE ASBL - CENAERO

 Belgium

Net EU contribution

€ 578 000,00

Address

Batiment eole, 1er étage - rue des frères wright 29
6041 Gosselies 

SME 

Yes

Region

Région wallonne > Prov. Hainaut > Arr. Charleroi

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CINECA CONSORZIO INTERUNIVERSITARIO

 Italy

Net EU contribution

€ 218 750,00

Address

Via magnanelli 6/3
40033 Casalecchio di reno bo 

Region

Nord-Est > Emilia-Romagna > Bologna

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SORBONNE UNIVERSITE

 France

Net EU contribution

€ 553 750,00

Address

21 rue de l'ecole de medecine

75006 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CHALMERS TEKNISKA HOGSKOLA AB

 Sweden

Net EU contribution

€ 298 235,00

Address

-

412 96 Goteborg 

Region

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ANSYS GERMANY GMBH

 Germany

Net EU contribution

€ 148 121,25

Address

Birkenweg 14a

64294 Darmstadt 

Region

Hessen > Darmstadt > Darmstadt, Kreisfreie Stadt

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (3)




ANSYS UK LIMITED

 United Kingdom

Net EU contribution

€ 0,00

Address

97 jubilee avenue milton park
OX14 4RW Abingdon 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



UNIVERSITY OF MELBOURNE

 Australia

Net EU contribution

€ 0,00

Address

Parkville office of the vice chancellor
3010 Melbourne 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 8 January 2024

Permalink: <https://cordis.europa.eu/project/id/101138080>

European Union, 2024

Cloud-aERosol inTeractions & their impActs IN The earth sYstem

Fact Sheet

Project Information

CERTAINTY

Grant agreement ID: 101137680

EC signature date

29 October 2023

Start date

1 January 2024

End date

31 December 2027

Funded under

Climate, Energy and Mobility

Total cost

€ 0,00

EU contribution

€ 7 213 742,68

Coordinated by

CENTRE NATIONAL DE LA
RECHERCHE SCIENTIFIQUE
CNRS

 France

Objective

Cloud, aerosols and their interactions are key regulators of climate. However, uncertainties in the magnitude of the net cooling impact of aerosols on climate and in the cloud response to evolving anthropogenic emissions and climate change induced feedbacks on natural emissions are major challenges that limit our understanding of how global and regional climate, including extremes, respond to changes in greenhouse gases. It is of paramount importance to better understand aerosol-cloud processes and their role in the Earth System, from regional to global scales, and over different time scales, from days to decades. Over the last decade, extensive research networks, infrastructures, satellite instruments, and atmospheric models have been developed, making it possible to obtain a holistic view of the effects of clouds and

aerosols on climate and weather. CERTAINTY will capitalise on this available data together with advanced algorithms, machine learning and data assimilation methods, high resolution models, and Earth system models to bring the fundamental knowledge of interactions between clouds, aerosols, and radiation to a new level. The consortium partners are in key roles as operators, data originators, developers, providers, and users of European aerosol and cloud data and ESMs/high resolution models. The consortium leads the activities of next generation satellite missions (such as EarthCARE), and the development of new satellite products, to facilitate their scientific use in CERTAINTY by preparing tools for early adoption of data. CERTAINTY will bring the observation-based knowledge to be used in modeling frameworks to improve predictive models and knowledge of processes controlling aerosols, clouds, and their interactions from hours to decades. The ultimate outcome will be better understanding and predictions of extreme events that facilitates planning of climate mitigation/adaptation strategies for the good of European citizens and global society.

Fields of science

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > [satellite technology](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > [climatic changes](#)

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [machine learning](#)

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > [simulation software](#)

Keywords

[cloud](#)

[aerosols](#)

[interactions](#)

[weather](#)

[climate](#)

[satellite](#)

[observations](#)

[models](#)

[data assimilation](#)

[radiation](#)

[advanced algorithms](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#) MAIN PROGRAMME

[HORIZON.2.5.1 - Climate Science and Solutions](#)

Topic(s)

Call for proposal

[HORIZON-CL5-2023-D1-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

Net EU contribution

€ 1 184 133,00

Address

Rue michel ange 3

75794 Paris

 **France** 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data

Participants (14)

SORBONNE UNIVERSITE

 France

Net EU contribution

€ 21 729,00

Address

**21 rue de l'ecole de medecine
75006 Paris** 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



ILMATIETEEN LAITOS

 Finland

Net EU contribution

€ 912 178,13

Address

**Erik palmenin aukio 1
00560 Helsinki** 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS

United Kingdom

Net EU contribution

€ 744 492,50

Address

Shinfield park
RG2 9AX Reading

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

EU contribution

No data



BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION

Spain

Net EU contribution

€ 665 092,26

Address

Calle jordi girona 31
08034 Barcelona

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

EU contribution

No data



KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT-KNMI

 Netherlands

Net EU contribution

€ 594 290,00

Address

Utrechtseweg 297
3731 GA De bilt 

Region

West-Nederland > Utrecht > Utrecht

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



STOCKHOLMS UNIVERSITET

 Sweden

Net EU contribution

€ 494 875,00

Address

Universitetsvagen 10
10691 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

 Germany

Net EU contribution

€ 445 029,54

Address

Linder hohe

51147 Koln 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



ETHNIKO ASTEROSKOPEIO ATHINON

 Greece

Net EU contribution

€ 424 875,00

Address

Lofos nymfon

11810 Athina 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



LUNDS UNIVERSITET

 Sweden

Net EU contribution

€ 449 030,00

Address

Paradisgatan 5c

22100 Lund 

Region

Södra Sverige > Sydsverige > Skåne län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



ITA-SUOMEN YLIOPISTO

 Finland

Net EU contribution

€ 454 080,75

Address

Yliopistonranta 8

70211 Kuopio 

Region

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



HELSINGIN YLIOPISTO

 Finland

Net EU contribution

€ 274 687,50

Address

Yliopistonkatu 3

00014 Helsingin yliopisto 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data




POLYTECHNEIO KRITIS

 Greece

Net EU contribution

€ 249 875,00

Address

Building e4, technical university campus counoupidiana
731 00 Chania 

Region

Νησιά Αιγαίου > Κρήτη > Χανιά

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

 Germany

Net EU contribution

€ 198 750,00

Address

Hofgartenstrasse 8

80539 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data



**UKRAINIAN RESEARCH HYDROMETEOROLOGICAL INSTITUTE OF THE
STATE EMERGENCY SERVICE OF UKRAINE AND THE NATIONAL ACADEMY
OF SCIENCE OF UKRAINE**

 Ukraine

Net EU contribution

€ 100 625,00

Address

Nauki avenue 37 holosiivskyi district
03028 Kyiv 

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

EU contribution

No data

Partners (4)



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 Switzerland

Net EU contribution

€ 0,00

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&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



SCHWEIZERISCHES FORSCHUNGSINSTITUT FUER HOCHGEBIRGSKLIMA UND MEDIZIN IN DAVOS

 Switzerland

Net EU contribution

€ 0,00

Address

Promenade 35
7270 Davos platz 

SME 

Yes

Region

Schweiz/Suisse/Svizzera > Ostschweiz > Graubünden / Grigioni / Grischun

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



THE UNIVERSITY OF MANCHESTER

 United Kingdom

Net EU contribution

€ 0,00

Address

Oxford road

M13 9PL Manchester 

Region

North West (England) > Greater Manchester > Manchester

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 4 December 2023

Permalink: <https://cordis.europa.eu/project/id/101137680>

European Union, 2024

Novel Fuel-Flexible ultra-Low Emissions Combustion systems for Sustainable aviation

Fact Sheet

Project Information

FFLECS

Grant agreement ID: 101096436

DOI

[10.3030/101096436](https://doi.org/10.3030/101096436)

EC signature date

9 October 2023

Start date

1 December 2023

End date

30 November 2026

Funded under

Climate, Energy and Mobility


Total cost

€ 1 905 741,25

EU contribution

€ 1 905 741,00

Coordinated by

UNIVERSITA DEGLI STUDI DI
FIRENZE
 Italy

Objective

"Improving Local Air Quality at airports while at the same time decarbonising aviation can be achieved by switching to sustainable aviation fuels (SAFs) and hydrogen (H₂), as confirmed by recent engine development programs. However, both these fuels require significant developments in the gas-turbine combustor because present technologies not only to further reduce NO_x and PM emissions as expected by long-term standards and objectives but also are not normally suitable for 100% direct combustion of hydrogen. In this project, revolutionary combustor architectures will be studied, extending the preliminary results of previous Clean Sky 2 ""Innovative NO_x Reduction Technologies"" projects in terms of scientific scope and TRL. In particular,

this project will advance (i) the Lean Azimuthal Flame (LEAFInnox), a novel combustion system based on Flameless Oxidation, (ii) the Compact Helically Arranged combustoR (CHAIRlift), a new system which uses interacting lean lifted flames, and (iii) plasma and electric manipulation of the spray and of the flame stabilisation mechanism. The fuel flexibility offered by these novel concepts is key to allow for SAF and H2 operations. This unique feature will be exploited to give novel dual-fuel LTO cycle strategies and ultra-low NOx, ultra-low soot single or dual-fuel use. Experiments on available dedicated rigs and numerical work will be performed to provide knowledge at the fundamental and practical level that will allow TRL3 and higher developments at the end of the project. The project will include new CFD, low-order, and AI models, and novel stabilisation techniques ripe for commercial exploitation."

Fields of science

[natural sciences](#) > [chemical sciences](#) > [electrochemistry](#) > [electrolysis](#)

[engineering and technology](#) > [environmental engineering](#) > [air pollution engineering](#)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#)

Keywords

[Hydrogen](#)

[SAF](#)

[PM](#)

[NOx](#)

[fuel flexibility](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility](#)

[HORIZON.2.5.6 - Industrial Competitiveness in Transport](#)

Topic(s)

[HORIZON-CL5-2022-D5-01-12 - Towards a silent and ultra-low local air pollution aircraft](#)

Call for proposal

[HORIZON-CL5-2022-D5-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



UNIVERSITA DEGLI STUDI DI FIRENZE

Net EU contribution

€ 333 750,00

Address

Piazza san marco 4

50121 Florence

 **Italy** 

Region

Centro (IT) > Toscana > Firenze

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (5)



KARLSRUHER INSTITUT FUER TECHNOLOGIE

 **Germany**

Net EU contribution

€ 709 241,00

Address

Kaiserstrasse 12
76131 Karlsruhe 

Region

Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,25



UNIVERSITA DEL SALENTO

 Italy

Net EU contribution

€ 296 250,00

Address

Piazza tancredi 7

73100 Lecce 

Region

Sud > Puglia > Lecce

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II

 Italy

Net EU contribution

€ 245 000,00

Address

Corso umberto i, 40
80138 Napoli 

Region

Sud > Campania > Napoli

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

Net EU contribution

€ 266 105,00

Address

Rue michel ange 3
75794 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 THIRD-PARTY 

UNIVERSITE DE ROUEN NORMANDIE

 France

Net EU contribution

€ 55 395,00

Address

Rue thomas becket 1 mont saint aignan
76821 Mont saint aignan cedex 

Region

Normandie > Haute-Normandie > Seine-Maritime

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (3)



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 Switzerland

Net EU contribution

€ 0,00

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&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

South kensington campus exhibition road
SW7 2AZ London 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

 United Kingdom

Net EU contribution

€ 0,00

Address

Trinity lane the old schools
CB2 1TN Cambridge 

Region

East of England > East Anglia > Cambridgeshire CC

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 7 November 2023

Permalink: <https://cordis.europa.eu/project/id/101096436>

European Union, 2024

Sustainable Technologies for Reducing Europe's battery raw Materials dependance

Fact Sheet

Project Information

STREAMS

Grant agreement ID: 101137771

EC signature date

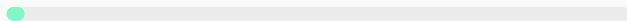
13 December 2023

Start date

1 January 2024

End date

31 December 2026



Funded under

Climate, Energy and Mobility

Total cost

€ 6 108 632,62

EU contribution

€ 6 094 993,25

Coordinated by

AIT AUSTRIAN INSTITUTE OF
TECHNOLOGY GMBH

 Austria

Objective

In STREAMS, a comprehensive portfolio of at least 12 scalable and flexible technologies and pilot scale solutions for the sustainable production of battery-grade precursors and their respective anode and cathode active materials will be developed, evaluated and successfully demonstrated. These technological processes will be applied to materials from primary and secondary sources including recycled battery mass and photovoltaic waste. This will strengthen Europe's domestic battery materials supply chain and reduce Europe's dependency on imported critical and strategic raw materials supplies. The production technologies will also increase Europe's resilience, competitiveness and strategic autonomy in the

global battery manufacturing industry. STREAMS' technological solutions will meet EU requirements for environmentally responsible design, and scale up, and anticipate regulatory compliance by conducting techno-economic, environmental, social impact and integrated risks assessments combined with life cycle sustainability and circularity assessments. The cathode and anode active materials synthesized in STREAMS will be used to manufacture 10 Ah battery cells at pilot scale using sustainable electrode processing. Prototype cells will be tested according to established standards and subjected to advanced post-mortem characterization. STREAM will also identify optimal conditions for future exploitation of the project results.

Fields of science

[social sciences](#) > [economics and business](#) > [economics](#) > [sustainable economy](#)

Keywords

[Battery-grade intermediates](#)

[recovery](#)

[recycling](#)

[reconditioning](#)

[sustainable processing](#)

[purification processes](#)

[raw materials](#)

[primary and secondary sources](#)

[black mass](#)

Programme(s)

[HORIZON.2.5 - Climate, Energy and Mobility](#)

MAIN PROGRAMME

[HORIZON.2.5.9 - Energy Storage](#)

Topic(s)

[HORIZON-CL5-2023-D2-01-01 - Technologies for sustainable, cost-efficient and low carbon footprint downstream processing & production of battery-grade materials \(Batt4EU Partnership\)](#)

Call for proposal

[HORIZON-CL5-2023-D2-01](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-RIA - HORIZON Research and Innovation Actions](#)

Coordinator



AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

Net EU contribution

€ 792 960,75

Address

Giefinggasse 4

1210 Wien

 Austria 

Region

Ostösterreich > Wien > Wien

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&L programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 1 137,81

Participants (14)



ETI BAKIR ANONIM SIRKETI/MAZIDAGI SUBESI

 Türkiye

Net EU contribution

€ 600 322,50

Address

Kocakent mah kocakent kumeevleri 490/1-270 mazidagi

47700 Mardin 

Region

Güneydoğu Anadolu > Mardin > Mardin

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



GLOCK TECHNOLOGY GMBH

 Austria

Net EU contribution

€ 95 757,50

Address

Gaston-glock-park 1

9170 Ferlach 

Region

Südösterreich > Kärnten > Klagenfurt-Villach

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SIPOW AS

 Norway

Net EU contribution

€ 84 330,00

Address

Tunringen 33

2016 Frogs 

SME 

Yes

Region

Norge > Oslo og Viken > Viken

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



INSTYTUT SORBTSIYI TA PROBLEM ENDOEKOLOHIYI NATSIONALNOYI AKADEMIYI NAUK UKRAYINY

 Ukraine

Net EU contribution

€ 700 020,00

Address

Vulytsya henerala naumova, budynok 13

03164 Kyiv 

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



OULUN YLIOPISTO

 Finland

Net EU contribution

€ 484 187,50

Address

Pentti kaiteran katu 1
90014 Oulu 





Region

Manner-Suomi > Pohjois- ja Itä-Suomi > Pohjois-Pohjanmaa

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Other funding

€ 0,00



ACONDICIONAMIENTO TARRASENSE ASSOCIACION

 Spain

Net EU contribution

€ 700 503,75

Address

Carrer de la innovacio 2
08225 Terrassa 





Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Other funding

€ 0,00




TREIBACHER INDUSTRIE AG

 Austria

Net EU contribution

€ 142 781,25

Address

Auer welsbach strasse 1
9330 Klagenfurt 

Region

Südösterreich > Kärnten > Unterkärnten

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITE DE LIEGE

 Belgium

Net EU contribution

€ 550 375,00

Address

Place du 20 aout 7
4000 Liege 

Region

Région wallonne > Prov. Liège > Arr. Liège

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




NANOPOW AS

 Norway

Net EU contribution

€ 353 255,00

Address

Markensvegen 1b
2212 Kongsvinger 

Region

Norge > Innlandet > Innlandet

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 12 500,00



TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU

 Türkiye

Net EU contribution

€ 400 750,00

Address

Ataturk bulvari 221
06100 Ankara 

Region

Batı Anadolu > Ankara > Ankara

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH

 Poland

Net EU contribution

€ 349 750,00

Address

Sowinskiego 5

44 100 Gliwice 

Region

Makroregion południowy > Śląskie > Gliwicki

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



ENVIVA IDIOTIKI KEFAIOUCHIKI ETAIREIA/ENVIVA IKE

 Greece

Net EU contribution

€ 100 000,00

Address

Korytsas 28

174 55 Alimos 

SME 

Yes

Region

Αττική > Αττική > Νότιος Τομέας Αθηνών

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 1,56



F6S NETWORK IRELAND LIMITED

 Ireland

Net EU contribution

€ 263 750,00

Address

Work hub 77 camden street
D02 XE80 Lower dublin 

SME 

Yes

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00




UKRAINIAN RESEARCH AND DESIGN INSTITUTE OF ELECTROTHERMAL EQUIPMENT

 Ukraine

Net EU contribution

€ 476 250,00

Address

Independent ukraine street 80/2
69035 Zaporizhzhya 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (4)



Evolution Energy Minerals Limited

 Australia

Net EU contribution

€ 0,00

Address

1318 hay street

6005 West perth 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



American Energy Technologies Company

 United States

Net EU contribution

€ 0,00

Address

3825 lizette lane

60026 Glenview 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

Address

**South kensington campus exhibition road
SW7 2AZ London** 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data



THE UNIVERSITY OF WARWICK

 United Kingdom

Net EU contribution

€ 0,00

Address

**Kirby corner road - university house
CV4 8UW Coventry** 

Region

West Midlands (England) > West Midlands > Coventry

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

No data

Last update: 8 January 2024

Permalink: <https://cordis.europa.eu/project/id/101137771>

European Union, 2024