

HORIZON
2020

OPEN INNOVATION TEST BED FOR ELECTROCHEMICAL ENERGY STORAGE MATERIALS

Fact Sheet

Project Information

TEESMAT

Grant agreement ID: 814106

[Project website](#) 

DOI

[10.3030/814106](https://doi.org/10.3030/814106) 

Project closed

EC signature date

12 December 2018

Start date

1 January 2019

End date

31 August 2022

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced materials

Total cost

€ 10 208 602,76

EU contribution

€ 8 900 252,16

Coordinated by

COMMISSARIAT A L ENERGIE
ATOMIQUE ET AUX ENERGIES
ALTERNATIVES

 France

This project is featured in...



Open Innovation Test Beds to accelerate European innovation

Project description

Powering innovative solutions for batteries

Batteries have been significantly developed and improved over the last 200 years. But they have yet to reach the physical limits of their performance due to complex physio-chemical processes. Understanding these limits in current industrialised systems theoretically allows substantial improvement. However, several obstacles prevent companies from accessing the necessary innovative techniques. The EU-funded TEESMAT project will facilitate access to physical facilities, capabilities and services by introducing innovative characterisation solutions. It will launch a sustainable Open Innovation Test Bed where specialised public and private partners will demonstrate valuable services for materials advanced characterisation within the value chain of electrochemical energy storage systems.

Keywords

material characterization

real-time characterization

in-line characterization

non-destructive characterization

material modelling

electrochemical storage

battery safety

regulation for materials

Programme(s)

[H2020-EU.2.1.3. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced materials](#)

MAIN PROGRAMME

[H2020-EU.2.1.2. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Nanotechnologies](#)

Topic(s)

[DT-NMBP-07-2018 - Open Innovation Test Beds for Characterisation \(IA\)](#)

Call for proposal

[H2020-NMBP-TO-IND-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-NMBP-TO-IND-2018

Funding Scheme

[IA - Innovation action](#)

Coordinator



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Net EU contribution

€ 2 110 580,25

Total cost

€ 2 110 580,25

Address

RUE LEBLANC 25

75015 PARIS 15

 **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](#) 

Participants (26)



EUROPEAN SYNCHROTRON RADIATION FACILITY

France

Net EU contribution

€ 640 612,50

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](#)

Total cost

€ 640 612,50



SERMA TECHNOLOGIES

France

Net EU contribution

€ 642 337,50

Address

14 RUE GALILEE
33600 Pessac

Region

Nouvelle-Aquitaine > Aquitaine > Gironde

Activity type

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

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)

Total cost

€ 917 625,00



ZENTRUM FUR SONNENENERGIE- UND WASSERSTOFF-FORSCHUNG BADEN-WURTTEMBERG

 Germany

Net EU contribution

€ 899 948,75

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](#) 

Total cost

€ 899 948,75



VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

 Belgium

Net EU contribution

€ 817 193,75

Address

BOERETANG 200
2400 Mol 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Turnhout

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 817 193,75



FUNDACION TECNALIA RESEARCH & INNOVATION

 Spain

Net EU contribution

€ 474 375,00

Address

PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700
48160 DERIO BIZKAIA 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 474 375,00



ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS

 Greece

Net EU contribution

€ 543 312,50

Address

CHARILAOU THERMI ROAD 6 KM
57001 Thermi Thessaloniki 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Research Organisations

Links

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

Total cost

€ 543 312,50



IN-CORE SYSTEMES

France

Net EU contribution

€ 345 501,63

Address

10 RUE AMPERE AKTILAND
69680 Chassieu

SME

Yes

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

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

Total cost

€ 493 573,75



SEMILAB FELVEZETO FIZIKAI LABORATORIUM ZARTKORUEN MUKODO
RESZVENYTARSASAG

Hungary

Net EU contribution

€ 428 305,50

Address

PRIELLE KORNELIA UTCA 2

1117 BUDAPEST 

SME 

Yes

Region

Közép-Magyarország > Budapest > Budapest

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](#) 

Total cost

€ 611 865,00



WAVESTONE LUXEMBOURG SA 

 Luxembourg

Net EU contribution

€ 15 925,00

Address

10 RUE DU CHATEAU D'EAU

3364 Leudelange 

Region

Luxembourg > Luxembourg > Luxembourg

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](#) 

Total cost

€ 39 937,50

 **THIRD-PARTY** 

WAVESTONE ADVISORS

 France

Net EU contribution

€ 12 031,25

Address

100-101 TERRASSE BOIELDIEU TOUR FRANKLIN
92042 Paris 

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](#) 

Total cost

€ 17 187,50



ZINERGY UK LIMITED

 United Kingdom

Net EU contribution

€ 180 114,38

Address

FUTURE BUSINESS CENTRE KINGS HEDGES ROAD
CB4 2HY Cambridge 

SME 

Yes

Region

East of England > East Anglia > Cambridgeshire CC

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 257 306,25



LITHOPS SRL

Italy

Net EU contribution

€ 15 796,38

Address

CENTRO AZIENDALE QUERCETE SNC
81016 San Potito Sannitico

Region

Sud > Campania > Caserta

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](#)

Total cost

€ 22 566,25



UMICORE SA

Belgium

Net EU contribution

€ 95 221,00

Address

RUE DU MARAIS 31
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

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

Links

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

Total cost
€ 186 085,00

 **THIRD-PARTY** 

UMICORE SPECIALTY POWDERS FRANCE

 France
Net EU contribution
€ 35 038,50

Address
54 AVENUE RHIN ET DANUBE
38000 Grenoble 

Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

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](#)

Total cost
€ 50 055,00



YUNASKO-UKRAINE LLC

 Ukraine
Net EU contribution
€ 179 599,88

Address
33/37 LABORATORNA STREET
03150 Kyiv 

SME 
Yes

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

Total cost

€ 256 571,25



GENES'INK

France

Net EU contribution

€ 184 111,38

Address

39 AVENUE GASTON IMBERT ZI DE ROUSSET
13790 Rousset

SME

Yes

Region

Provence-Alpes-Côte d'Azur > Provence-Alpes-Côte d'Azur > Bouches-du-Rhône

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

Total cost

€ 263 016,25



ARKEMA FRANCE SA

France

Net EU contribution

€ 177 198,00

Address

51 ESPLANADE DU GENERAL DE GAULLE
92800 PUTEAUX, LA DEFENSE 

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](#) 

Total cost

€ 253 140,00



SUNLIGHT GROUP SYSTIMATA APOTHIKEFSIS ENERGEIAS VIOMICHANIKI
KAI EMPORIKI ANONYMI ETAIRIA

 Greece

Net EU contribution

€ 179 609,50

Address

22 THIVAIDOS STR., KIFISSIA
145 64 Athens 

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](#) 

Total cost

€ 256 585,00



NORTHVOLT AB 

 Sweden

Net EU contribution

€ 37 371,69

Address

ALSTROMERGATAN 20

112 47 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

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](#) 

Total cost

€ 53 388,13



CENTRO RICERCHE FIAT SCPA

 Italy

Net EU contribution

€ 187 411,25

Address

STRADA TORINO 50

10043 Orbassano 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 187 411,25



CEGASA PORTABLE ENERGY SLU

 Spain

Net EU contribution

€ 0,00

Address

AVENIDA LOS HUETOS 75
01010 Vitoria Gasteiz 

SME 

Yes

Region

Noreste > País Vasco > Araba/Álava

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](#) 

Total cost

No data



EUROPEAN BUSINESS AND INNOVATION CENTRE NETWORK AISBL

 Belgium

Net EU contribution

€ 174 000,00

Address

AVENUE DE TERVUREN 168/25
1150 Bruxelles / Brussel 

SME 

Yes

Region

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

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 174 000,00



CEGASA ENERGIA S.L.U.

 Spain

Net EU contribution

€ 179 736,38

Address

CALLE MARIE CURIE, 1
01510 Miñano Mayor, Vitoria-Gasteiz 

Region

Noreste > País Vasco > Araba/Álava

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](#) 

Total cost

€ 256 766,25



FAAM RESEARCH CENTER S.R.L.

 Italy

Net EU contribution

€ 107 604,00

Address

CENTRO AZIENDALE QUERCETE SNC
81016 San Potito Sannitico 

Region

Sud > Campania > Caserta

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

Total cost

€ 153 720,00



E MAGY BV

Netherlands

Net EU contribution

€ 122 379,69

Address

BIJLESTAAL 54A
1721 PW Broek Op Langedijk

SME

Yes

Region

West-Nederland > Noord-Holland > Alkmaar en omgeving

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

Total cost

€ 174 828,13



HYDRAREDOX IBERIA, S.L.

Spain

Net EU contribution

€ 114 936,50

Address

CALLE GRAN VIA NUM 36 PLANTA 1 PUERTA IZ
50005 Zaragoza 

SME 

Yes

Region

Noreste > Aragón > Zaragoza

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](#) 

Total cost

€ 164 195,00

Last update: 6 September 2024

Permalink: <https://cordis.europa.eu/project/id/814106>

European Union, 2025

