



Horizon 2020

Webinaire, appel LC-SC3-B4E-2-2020
Paris, le 3 mars 2020

Annabelle Rondaud (PCN Energie)
François-Xavier Testard-Vaillant (PCN Energie)



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Webinaire, appel LC-SC3-B4E-3-2020
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Horizon 2020

Quelques rappels...

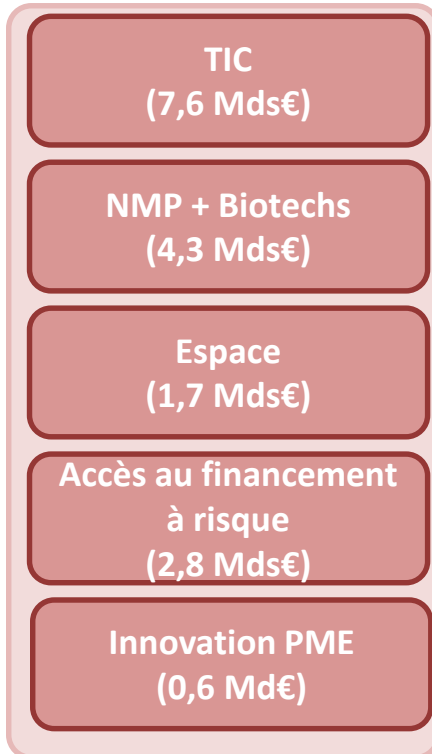
L'Énergie dans Horizon 2020

Excellence scientifique



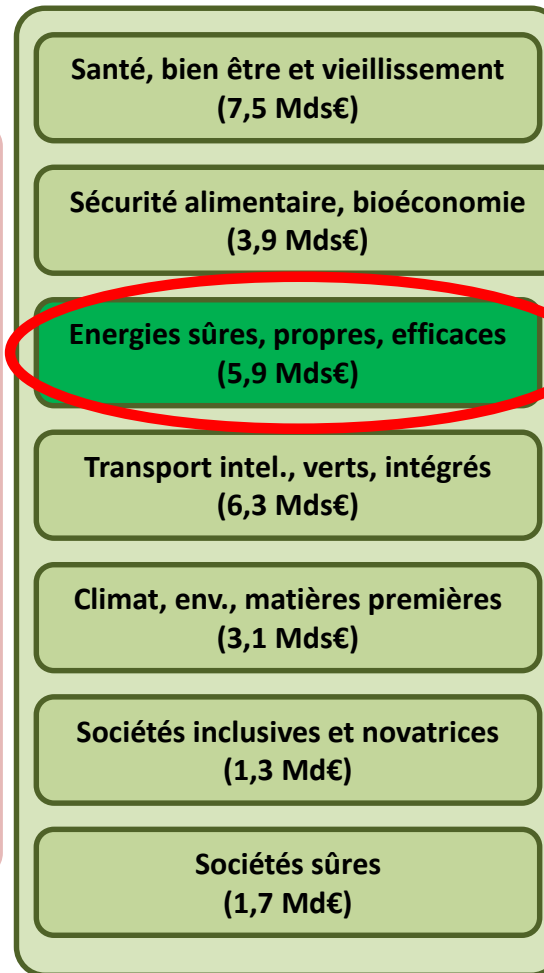
24,4 Mds€

Primauté industrielle



17 Mds€

Défis sociétaux



29,7 Mds€

- ENR (PV, Wind...)
- Réseau
- Stockage
- Biocarburants
- Market-uptake

Euratom

Institut européen d'innovation et de technologie (EIT)
Centre de recherche commun (JRC)
Diffusion de l'excellence et élargissement / Science



Défi sociétal N°3 = Energie

Energy Efficiency = EE/B4E

Renewable energy solutions = RES

Energy Consumer & Energy system = EC & ES

Smart Cities and Communities = SCC

Nearly-zero CO2 emissions from fossil fuels = NZE

Joint actions among countries = JA

Cross-cutting issues

Pour memo : budget 2018 = 537,3M€

2019	2020
113 M€	86,5 M€
216 M€	248 M€
125,65M€	155 M€
83 M€	75 M€
53 M€	29 M€
21 M€	15 M€
12 M€	15 M€
623,65M€	623,5M€



Les différents types d'action

Recherche & Innovation (RIA)

- activités visant à **établir de nouvelles connaissances**, à travers des recherches fondamentales ou appliquées
- peuvent inclure du **développement et de l'intégration de technologies**, des essais et la validation d'un prototype à petite échelle

Taux de financement 100%

Innovation (IA)

- activités visant directement à produire des plans, arrangements ou concepts pour un produit, procédé ou service nouveau ou amélioré : **prototypage, démonstration ou pilotes, validation du produit à grande échelle**, première commercialisation
- peuvent inclure des activités limitées de recherche et de développement

Taux de financement 70% pour le privé (100% public)

Coordination & Support (CSA)

- **mesures d'accompagnement** comme la standardisation, dissémination, sensibilisation et communication, mise en réseau, services de coordination et de soutien, dialogues politiques, exercices d'apprentissage mutuel et études

Taux de financement 100%



Que finance H2020?

Quels taux de financement ?

Taux de financement des <u>coûts directs</u> éligibles		
	« Non-profit » organisations	Entreprises
Recherche & Innovation	100%	100%
Innovation	100%	70%



Coûts indirects: **25%** des coûts directs pour toutes les entités légales (hors sous-traitance et contributions en nature)

Les grandes priorités 2018-2020

= 4 Focus areas

- *Building a low-carbon, climate resilient future = LC*
- *Digitising and transforming European industry and services = DT*
- *Connecting economic and environmental gains – the Circular Economy = CE*
- *Boosting the effectiveness of the Security Union = SU*

Focus area =
Low Carbon

Thème/objectif
= Buildings for
Energy

Année de
clôture de
l'appel

Code des topics : Ex = **LC-SC3-B4E-2-2020**

Societal
Challenge N°3
= Energie

Numéro de
l'appel

Un appel dans le programme de travail

Réf. du sujet

Et réf. de l'appel

LCE-12-2017: Near-to-market solutions for the use of solar heat in industrial processes

Défi à relever

Specific Challenge: The potential for the use of solar heat for industrial purposes is still largely untapped. The challenge is to reduce the technical complexity and develop cost effective solutions.

Scope: Proposals shall demonstrate less complex and cost effective technical solutions which significantly increase the share of solar heat in industrial processes and which can be easily integrated into existing industrial plants.

TRL 7 shall be achieved at the end of project activities (please see part G of the General Annexes).

Opening the project's test sites, pilot and demonstration facilities, or research infrastructures for practice oriented education, training or knowledge exchange is encouraged.

The Commission considers that proposals requesting a contribution from the EU of between EUR 5 to 8 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts

Expected Impact: The action will result in solutions which demonstrate that solar heat can be a reliable energy source for industrial processes, therefore bringing significant prospects for the market uptake of this renewable energy source and for the decarbonisation of industrial processes.

Type of Action: Innovation action

Indication des TRLs

Indication du budget du projet

Type of action = Schémas de financement

Périmètre

Impact attendu

- + informations sur le budget disponible
- + la date limite pour soumettre une proposition



Horizon 2020

Lecture/décryptage de l'appel LC-SC3-B4E-2-2020 :

Stimulating demand for sustainable energy skills in the building sector

Les étapes de la **lecture** d'un appel à projets :

1. Lire en détail l'appel à projets et les éléments de son contexte (Programme de travail).
2. Assister à la **journée d'information** organisée par la Commission (Infoday) annoncée sur le site horizon2020.gouv.fr (souvent disponible sous forme vidéo).
3. A défaut prendre connaissance des documents présentés pendant cette journée.
4. A la lumière des ces informations, rédiger un **papier de cadrage (2 x A4 max)** qui servira de base à la constitution d'un **noyau de consortium** ou à la recherche d'un consortium.

Stimulating demand for sustainable energy skills in the building sector



Oct 27, 2017

Stimulating demand for sustainable energy skills in the building sector

ID: LC-SC3-B4E-2-2020

Focus area: Building a low-carbon, climate resilient future (LC)

Type of action:

◦ CSA Coordination and support action

Deadline Model : single-stage

Planned opening date: 05 March 2020

Deadline: 10 September 2020 17:00:00 Brussels time

Forthcoming

Horizon 2020


 [Horizon 2020 Website](#)

↳ **Work programme:**  Secure, clean and efficient energy

Work programme year: H2020-2018-2020

↳ **Call name:** BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY | **Call ID:** H2020-LC-SC3-2018-2019-2020

[See all topics of this call >](#)

 [See budget overview](#)

Budget/projet : 0,5 à 1M€

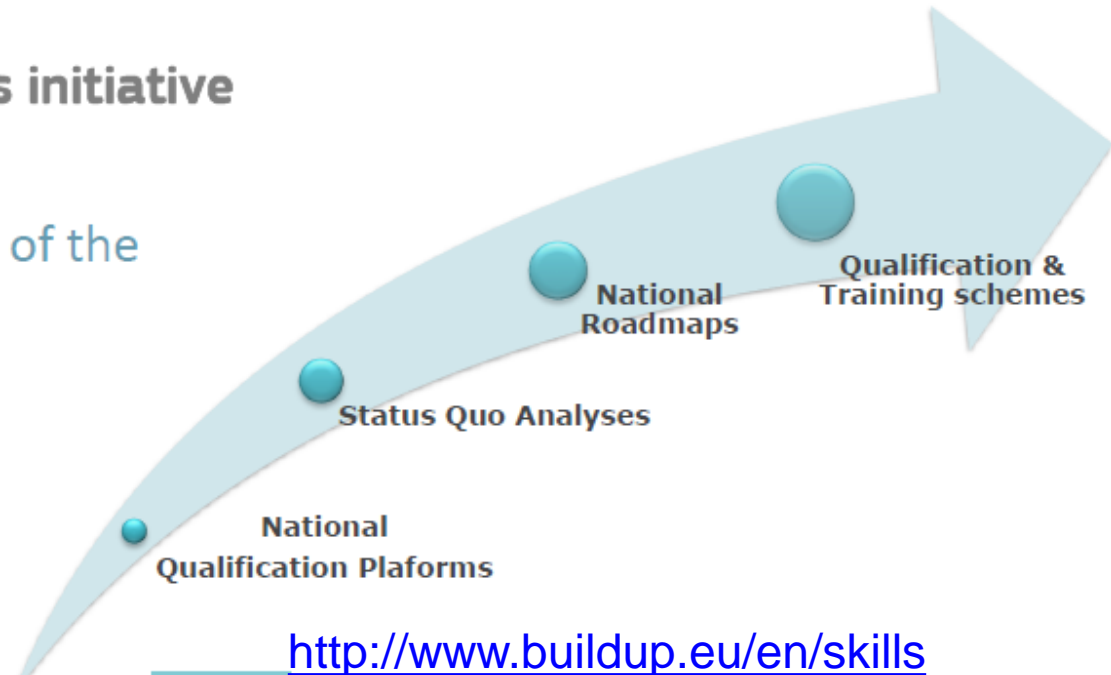
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-2-2020>

Stimulating demand for sustainable energy skills in the building sector



Background: the BUILD UP Skills initiative

- Started in 2011
- Objective: upskill professionals of the building value chain
- 57 projects completed
- 11 projects on-going
- €40 million EU funding



Stimulating demand for sustainable energy skills in the building sector

Some project results



Le rapport est [ici](#).

Stimulating demand for sustainable energy skills in the building sector

Barriers to the uptake of energy efficiency skills



The challenge

- To **act at market level** and to **support legislative changes** that will stimulate the demand for sustainable energy skills.
- To **increase the number** of skilled building professionals across the building design, operation and maintenance value chain.

The scope

The development, up-scaling and/or combination of a range of **tools** and **initiatives**, e.g.:

- **Tools** facilitating the mutual recognition of energy skills and qualifications in the building sector.
- National, regional or local **initiatives** raising awareness of home and building owners and tenants about the benefits of sustainable energy skills.
- **Support** to public authorities for the development of new legislative frameworks.
- **Partnerships** with producers and retailers of construction products.
- **Initiatives** reinforcing the link between skills/education and energy performance/quality of construction.

The scope (*suite*)

Proposals need to be **focused** and are not necessarily required to address the whole range of professions.

Adequate consideration should also be given to the **multiple benefits** of energy efficiency, to improved appreciation of the **end user's needs** including the quality of indoor environment (**thermal and visual comfort, acoustics, air quality**, etc.) as well as to the building's improved **operation and maintenance**.

Expected impact

- Primary Energy savings triggered by the project (in GWh/year);
- Renewable energy production triggered by the project (in GWh/year);
- Investments in sustainable energy triggered by the project (in M€);
- Increased **number** of certification schemes for energy efficiency skills;
- Improved mutual recognition of sustainable energy skills between **Member States and neighbouring countries**;
- Improved **collaboration and understanding** across different trades and professional groups;
- Increased **market acceptance** of sustainable energy skills;
- **Legislative** changes stimulating the demand for energy skilled building professionals;
- **Demonstrated reduction** in the gap between designed and actual energy performance through **improved quality of construction**.



Horizon 2020

Lecture/décryptage de l'appel LC-SC3-B4E-3-2020 :

Upgrading smartness of existing buildings through innovations for legacy equipment

Upgrading smartness of existing buildings through innovations for legacy equipment

Upgrading smartness of existing buildings through innovations for legacy equipment

ID: [LC-SC3-B4E-3-2020](#)

Focus area: Building a low-carbon, climate resilient future (LC)

Type of action:

IA Innovation action

Deadline Model : single-stage

Planned opening date: **05 March 2020**

Deadline: **10 September 2020 17:00:00 Brussels time**

Forthcoming

Horizon 2020


 [Horizon 2020 Website](#)

↳ **Work programme:**  [Secure, clean and efficient energy](#)

Work programme year: H2020-2018-2020

↳ **Call name:** BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY | **Call ID:** H2020-LC-SC3-2018-2019-2020

[See all topics of this call >](#)

 [See budget overview](#)

Budget/projet : 3 à 4M€ TRL : 6-8

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-3-2020>

The challenge

Today, the **existing building stock** represents the main challenge for a **more efficient energy use**, in buildings as well as across the **whole energy system**. Installed equipment remains highly relevant for buildings interactions with the energy system, making its upgrade to higher levels of smartness **an essential step**. Innovative technologies will enable **smart buildings** to interact with their occupants **and** the grid in real time and to **manage themselves efficiently**.

Focus on legacy equipment : longer lifecycle, higher costs of replacement, or difficult to integrate in buildings

The scope

Proposals should **develop** and **demonstrate** cost-effective low-carbon technological solutions to **manage energy within existing buildings** and **interact with the grid** providing energy efficiency, flexibility, generation and storage, based on **user preferences and requests**. These solutions should be aimed to upgrade existing buildings, either **residential or tertiary**.

Proposals should demonstrate how the **smart systems**, smart controls, smart metering and smart appliances can be **integrated seamlessly in existing buildings** to interface and/or to control the major energy consuming domestic appliances that are already installed.

The scope (2)

Proposals are expected to include clear **business model development** and a clear **path to finance and deployment**. **Key partners** should have the capability and interest in making the developed solution a core part of their business/service model to their clients.

Business models and exploitation strategies should target the broad uptake of the proposed smart systems into **specific building typologies** in Europe and their **integration with evolving electricity markets**.

Focus on cost-effectiveness and **user-friendliness**.

Interoperability is essential to ensure the required smart readiness [...] and broad **market uptake** .

Expected Impact

- Primary Energy savings triggered by the project (in **GWh/year**);
- Investments in sustainable energy triggered by the project (in **M€**);
- Upgrade of existing buildings to higher smartness levels, including a significantly enlarged base of existing building equipment and appliances monitored by energy management systems and activated through demand response actions;
- Reduction in energy consumption and costs, exceeding the additional consumption from IT and its cost.
- Reduction of the greenhouse gas emissions (in **tCO₂-eq/year**) and/or air pollutants (in **kg/year**) triggered by the project..

Quelques recommandations

Monter un dossier

- rédiger un papier de cadrage permet de constituer un noyau de consortium (*lean and mean*) ;
- mettre en place un retro-planning ;
- faire relire sur le fond (par un « expert » non impliqué dans le projet) et sur la forme (si possible par un anglophone natif) ;
- télécharger le dossier en l'état la veille de la date limite et le jour même à midi.

Trouver l'appel à projets de rêve

- consulter le portail français [horizon 2020.gouv.fr](https://horizon2020.gouv.fr) et plus spécifiquement la [page consacrée aux appels à projets en lien avec l'énergie](#). Vous y trouverez aussi [tous les appels à projets](#), ce qui s'appelle le « Programme de travail » ;
- contacter les [Points de contact \(PCN\) français pour l'énergie](#) répondent aux questions qui leur sont posées à cette adresse : pcn-energie@recherche.gouv.fr ;
- un moteur de recherche expérimental et gratuit (pour l'instant – mars 2020) : [KAILA](#).

Trouver un consortium/des partenaires

- Consulter le site **Webgate.ec.europa.eu** pour voir quelles ont été les propositions gagnantes en réponse à des appels voisins de celui auquel je souhaite postuler :
<https://webgate.ec.europa.eu/dashboard/sense/app/93297a69-09fd-4ef5-889f-b83c4e21d33e> (*H2020 projects*) ;
- puis aller sur le site Cordis pour les détails sur le consortium

Concrètement...

Exemple avec appel EE-05-2015

EE-05-2015: Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation (CSA)

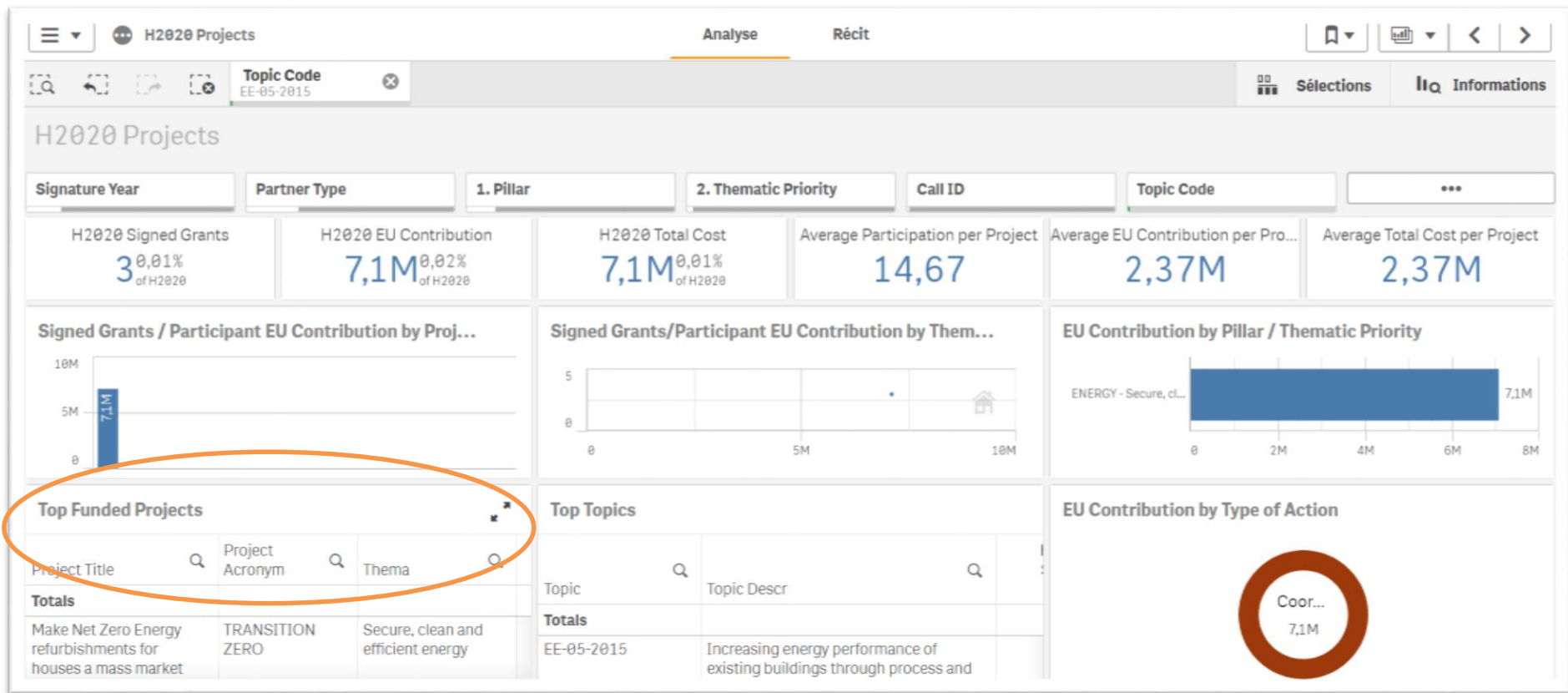
The screenshot displays the 'H2020 Projects' dashboard with the following data and features:

- Navigation:** 'Analyse' and 'Récit' tabs are visible at the top.
- Filters:** 'Signature Year', 'Partner Type', '1. Pillar', '2. Thematic Priority', 'Call ID', and 'Topic Code' are available for selection.
- Summary Metrics:**
 - H2020 Signed Grants: 25,686 (100.00% of H2020)
 - H2020 EU Contribution: 46,77B (100.00% of H2020)
 - H2020 Total Cost: 58,69B (100.00% of H2020)
 - Average Participation per Project: 4,77
- Visualizations:**
 - 'Signed Grants / Participant EU Contribution by Proj...': A bar chart showing values ranging from 1,17B to 9,55B.
 - 'Signed Grants/Participant EU Contribution by Them...': A scatter plot with 'INNO SUP...' and 'TPT' as data points.
 - 'Top Topics': A table listing 'EIC-SMEInst-2018-2020' and 'SME instrument'.
- Search and Filter:** A search box contains 'EE-05-2015', and a dropdown menu shows 'EE-05-2015' as a selected option.
- Table Data:**

Project Title	Project Acronym	Thema
Implementation of activities described in the Roadmap to Fusion	EUROfusion	Euratom

Topic	Topic Descr
EIC-SMEInst-2018-2020	SME instrument

Pas à pas...



Pas à pas...

H2020 Projects
Analyse
Récit
Sélections
Informations

H2020 Projects

Top Funded Projects

Project Title	Project Acronym	Thema	H2020 Participations	H2020 EU Contrib...	ToA	H2020 Net EU Contribution	Project Nbr	CORDIS link	Topic
Totals			44	7.102.8...		€ 7.102.860			
Make Net Zero Energy refurbishments for houses a mass market	TRANSITION ZERO	Secure, clean and efficient energy	10	€ 3.570.4...	Coordination and support action	€ 3.570.439	696186	CORDIS link	EE-01
Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop	ABRACADABRA	Secure, clean and efficient energy	18	€ 1.993.1...	Coordination and support action	€ 1.993.169	696126	CORDIS link	EE-01
An ENERGY Retrofit FUNDing rating tool	ENERFUND	Secure, clean and efficient energy	16	€ 1.539.2...	Coordination and support action	€ 1.539.253	695873	CORDIS link	EE-01



Pas à pas... vers Cordis



Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation

- Fact Sheet**
- Result in Brief
- Reporting
- Results
- News & Multimedia

Objective

ABRACADABRA is based on the prior assumption that non-energy-related benefits play a key role in the deep renovation of existing buildings. In particular, ABRA actions will focus on the creation of a substantial increase of the real estate value of the existing buildings through a significant energy and architectural transformation. The central goals of the proposal consist of an important reduction of the pay back time of the interventions, a strengthening of the key investors' confidence, increasing quality and attractiveness of the existing buildings' stock and, finally, reaching a concrete market acceleration towards the Nearly Zero Energy Buildings target. The actual investment gap in the deep renovation sector is due to the fact that high investments are required up-front and they are generally characterised by an excessively high degree of risk and long payback times. It is therefore necessary to develop harmonized, concerted and innovative actions to unlock the needed public and private funds, fill the energy efficiency investment gap and ultimately contribute to re-launch the construction market and create new jobs. Therefore, ABRA aims at demonstrating to the key stakeholders and financial investors the attractiveness of a new renovation strategy based on AdoRe, intended as one (or a set of) Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation.

Project information

ABRACADABRA

Grant agreement ID: 696126

[Project website](#)


Status
Closed project

Start date	End date
1 March 2016	28 February 2019

Funded under:
H2020-EU.3.3.7.

Qu'apprend-on du consortium ? De la répartition budgétaire ? Des types de participants ?

Coordinator

 **ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA**

Address: Via Zamboni 33, 40126 Bologna, Italy






Activity type: Higher or Secondary Education Establishments

EU Contribution: € 217 825

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

Participants (17)

Sort alphabetically Sort by EU Contribution Expand all

 RINA CONSULTING SPA Italy	EU Contribution € 132 375	▼
 ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON Greece	EU Contribution € 96 000	▼
 KNOWLEDGE INNOVATION MARKET S.L. Spain	EU Contribution € 92 812,50	▼
 COMITE EUROPEEN DE COORDINATION DE L'HABITAT SOCIAL AISBL Belgium	EU Contribution € 55 481,25	▼
 CONSEIL DES ARCHITECTES D'EUROPE Belgium	EU Contribution € 135 562,50	▼

Qu'apprend-on du consortium ? De la répartition budgétaire ? Des types de participants ?

LB_LEGAL_NAME	CD_ORG_COUNTRY	AM_EC_CONTRIB
TECHNISCHE UNIVERSITEIT DELFT	NL	116 725,00 €
CONSEIL DES ARCHITECTES D'EUROPE	BE	135 562,50 €
CHERNOMORSKA REGIONALNA AGENZIA ZA UPRAVLENIE NA ENERGIYATA	BG	54 750,00 €
ENERGYPRO LIMITED	UK	82 575,00 €
RENESCO SIA	LV	162 131,25 €
BANCA MONTE PASCHI BELGIO SA	BE	123 500,00 €
SOCIEDAD ARAGONESA DE GESTION AGROAMBIENTAL SL	ES	77 975,00 €
UNION INTERNATIONALE DE LA PROPRIETE IMMOBILIERE	BE	171 218,75 €
NORSK TRETEKNISK INSTITUTT FORENING	NO	133 500,00 €
COMITE EUROPEEN DE COORDINATION DE L'HABITAT SOCIAL AISBL	BE	55 481,25 €
MUNICIPIUL BRASOV	RO	24 075,00 €
ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)*	DE	146 131,25 €
PARTENAIRES EUROPEENS POUR L'ENVIRONNEMENT	BE	51 406,25 €
ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	EL	96 000,00 €
ECUBA SNC	IT	119 125,00 €
KNOWLEDGE INNOVATION MARKET S.L.	ES	92 812,50 €
RINA CONSULTING SPA	IT	132 375,00 €
ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT	217 825,00 €

1,193M€

Compléter son consortium : le portail de la CE



Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Oct 27, 2017

The role of consumers in changing the market through informed decision and collective actions

ID: LC-SC3-EC-1-2018-2019-2020

Focus area: Building a low-carbon, climate resilient future (LC)

Type of action:

- CSA Coordination and support action Deadline Model : single-stage Opening: **12 March 2019**
- CSA Coordination and support action Deadline Model : single-stage Opening: **25 January 2018**

Horizon 2020

Work programme: Secure, clean and efficient energy

Go to top

Partner Search

83 Organisations are looking for collaborating partners for this topic

View / Edit

LEARs, Account Administrators or self-registrants can publish partner requests for open and forthcoming topics after logging into this Portal.

Ex : LC-SC3-EC-1-2018-2019-2020
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-1-2018-2019-2020>

Compléter son consortium :

Site des PCN européens



C-Energy2020

HOME ABOUT GET NEWSLETTER INTRANET

C-ENERGY 2020

Connecting Energy National Contact Points in a pro-active network under Societal Challenge 3 'Secure, clean and efficient energy' in Horizon 2020

Find your NCP EU funding **Partner Search** EU networks News & EU Policy Calendar Media

C-Energy 2020 Project H2020 Energy Open Call News Policy

<http://c-energy2020.eu/>

Ou encore...

Site français Horizon2020.gouv.fr



RECHERCHER... 

Accueil > Horizon 2020 > Défis sociétaux > Energie

> Recherche avancée multicritères

AGENDA

09 JUIN

Rencontre lauréats-candidats FET Proactive

 PARIS

15 JUIN

Journée nationale d'information "Les PME dans Horizon 2020"

 PARIS

Recherches de partenaires et offres de compétences en énergie

ENERGIE



Le P.C.N. énergie propose la consultation des recherches de partenaires et des offres de compétences pour les prochains appels du défi 3, grâce à sa collaboration avec ses homologues européens.

<http://www.horizon2020.gouv.fr/cid77777/recherches-partenaires-offres-competences-energie.html>

Pour vous aider : les Points de contact nationaux (PCN)


<http://www.horizon2020.gouv.fr/ci/d74103/le-reseau-des-pcn.html>

Pour nous contacter :

pcn-energie@recherche.gouv.fr

Le réseau des Points de Contact Nationaux

LES POINTS DE CONTACT NATIONAUX



Les Points de Contact Nationaux (P.C.N.) d'Horizon 2020 sont chargés de diffuser l'information et de sensibiliser la communauté de la recherche et de l'innovation aux programmes européens.

Un réseau de Points de Contact Nationaux (PCN) est établi dans tous les pays bénéficiaires d'Horizon 2020, à la demande de la Commission européenne.



En vue de soutenir les porteurs de projets d'Horizon 2020, établis en France, le Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation (MESRI) déploie, pilote et anime un nouveau réseau de Points de Contact National chargé de porter le programme d'action du MESRI en faveur de l'amélioration de la participation française au programme européen.

Les missions de ces PCN :

1. Informer, sensibiliser les équipes sur les opportunités de financement de projet d'Horizon 2020 ;
2. Aider, conseiller et former aux modalités de fonctionnement du programme ;
3. Signaler l'existence et orienter vers d'autres sources de financement (européens et nationaux) susceptibles de mieux répondre à leurs besoins et vers les services supports de ces financements.

Les PCN français sont des **consortia d'acteurs** chargés d'apporter une réponse auprès des porteurs de projets pour chacune de ces missions.

Connaitre votre interlocuteur, **PCN d'Horizon 2020** :

PCN	Coordinateur	Etablissement	Consortium	Téléphone	Mét.
Coordination nationale	 Elia BOUQUET	MESRI Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation	Voir les membres	33 1 55 55 82 51	 Contact
		MESRI Ministère de			