



Funded Projects under Horizon 2020

Secure, clean and efficient energy

Energy Efficiency Calls 2015

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<https://open-data.europa.eu/en/data/dataset/cordis-h2020projects-under-horizon-2020-2014-2020>

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This document gives information on calls and funded projects of the EU Framework Programme for Research and Innovation Horizon 2020 for the Societal Challenge – Secure, clean and efficient energy for the year 2015.

The data used in this document was extracted from the tables available at the website of the European Union Open Data Portal. More data is available in those tables.

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Topic EE-02 – Projects

Topic: EE-02-2015	Acronym: InDeWaG
Call: EE-2015-1-PPP	Type of Action: IA
Title: Industrial Development of Water Flow Glazing Systems	
Starting date: 01.08.2015	End date: 01.02.2019
Total cost: 5,034,831.25 €	EU max. contribution: 4,230,351.50 €
Coordinator: UNIVERSITAET BAYREUTH (DE)	
Participants: <ul style="list-style-type: none"> ▪ BOLLINGER + GROHMANN CONSULTING GMBH ▪ ETEM BULGARIA AD ▪ HTCO GmbH ▪ GMAE TRANSFORMA SL ▪ ARCHITEKTONIKA STUDIO DRUZHESTVO S OGRANICHENA OTGOVORNOS ▪ CENTRAL LABORATORY OF SOLAR ENERGY& NEW ENERGY SOURCES OF THE BULGARIAN ACADEMY OF SCIENCES ▪ FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV ▪ UNIVERSIDAD POLITECNICA DE MADRID ▪ CERVIGLAS S.L. 	
Countries: DE; BG; ES	
Objectives: <p>Although Nearly Zero Energy Buildings will become a “must” for new buildings in Europe by the end of 2020 – no particular building concept exists, which would enable maximum use of daylight by a transparent glass façade and at the same time ZEB performance.</p> <p>InDeWaG is introducing a new, disruptive building envelope system which has a at least 15% building cost reduction potential and could be brought to industrial ripeness. The cost reduction goal and ZEB performance will be achieved with Fluid Flow Glazing facades (FFG) and Radiant Interior Walls (RIW), while minimizing the size of HVAC and PV-installations. InDeWaG is following a dual strategy to bring costs of ZEB down: The project concentrates on industrial production of standardized building components, which can be used for multiple types of ZEB in different climate zones and on the development of a simulation tool for precise early stage planning of buildings which use these innovative glazing building envelope and interior elements.</p>	

Topic: EE-02-2015	Acronym: ZERO-PLUS
Call: H2020-EE-2015-1-PPP	Type of Action: IA
Title: Achieving near Zero and Positive Energy Settlements in Europe using Advanced Energy Technology	
Starting date: 01.10.2015	End date: 01.10.2019
Total Cost: 4,221,947.50 €	EU max. contribution: 3,518,982.50 €
Coordinator: ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	
Participants: <ul style="list-style-type: none"> ▪ SA; ▪ ABB SPA; ▪ BEN-GURION UNIVERSITY OF THE NEGEV; ▪ ANERDGY AG; ▪ GEORGE VASSILIOU LIMITED; ▪ THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE; ▪ ECO LIMITED; ▪ OXFORD BROOKES UNIVERSITY; ▪ CONTEDIL DI RICCO MARIA & C SAS ▪ TECHNISCHE UNIVERSITAET MUENCHEN; ▪ THE TRUSTEES OF THE JOSEPH ROWNTREE HOUSING TRUST; ▪ UNIVERSITA DEGLI STUDI DI PERUGIA; ▪ CONSORZIO ARCA - CONSORZIO PER LA PROMOZIONE DELLE APPLICAZIONI DELLA RICERCA E LA CREAZIONE DI AZIENDE INNOVATIVE; 	
Countries: FR;CY;EL;DE;IT;IL;UK;CH	
Objectives: <p>"In ZERO-PLUS, a comprehensive, cost-effective system for Net Zero Energy (NZE) settlements will be developed and implemented. The system will be composed of innovative solutions for the building envelope, for building energy generation and management, and for energy management at the settlement level. A reduction of operational energy usage to an average of 0-20 kWh/m2 per year (compared with the current average of 70-230 kWh/m2) will be achieved through a transition from single NZE buildings to NZE settlements, in which the energy loads and resources are optimally managed.</p> <p>A primary objective of the project will be to develop a system whose investment costs will be at least 16% lower than current costs. In order to reduce ""balance of system"" costs, an approach of mass customization will be employed. Mass produced technologies will be integrated in a system that is optimally designed according to the local climate and site of each project in which it is implemented. To this end, a structured process will be developed and applied for the integration, optimization and verification of the design.</p> <p>The project's work programme will ensure a rapid market uptake, within its four-year scope, of the innovative solutions that will be developed. These solutions will be implemented in four different demonstration projects throughout the EU, with varying climates and building types. The results of their implementation will be monitored, analyzed and disseminated. A comprehensive market analysis and business plan will support the commercial exploitation of the project's results. The project will be carried out by a consortium that includes universities, project owners, technology providers and organizations, which will closely collaborate in all the project's phases.</p> <p>"</p>	

Topic EE-05 – Projects

Topic: EE-05-2015	Acronym: ABRACADABRA
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,993,168.75 €	EU max. contribution: 1,993,168.75 €
Coordinator: ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA	
Participants:	
<ul style="list-style-type: none"> ▪ SOCIEDAD ARAGONESA DE GESTION AGROAMBIENTAL SL ▪ PARTENAIRES EUROPEENS POUR L'ENVIRONNEMENT ▪ MUNICIPIUL BRASOV ▪ ENERGYPRO LIMITED ▪ BANCA MONTE PASCHI BELGIO SA ▪ UNION INTERNATIONALE DE LA PROPRIETE IMMOBILIERE ▪ COMITE EUROPEEN DE COORDINATION DE L'HABITAT SOCIAL AISBL ▪ KNOWLEDGE INNOVATION MARKET S.L. ▪ D'APPOLONIA SPA 	<ul style="list-style-type: none"> ▪ CHERNOMORSKA REGIONALNA AGENZIA ZA UPRAVLENIE NA ENERGIYATA ▪ NORSK TRETEKNISK INSTITUTT FORENING ▪ TECHNISCHE UNIVERSITEIT DELFT ▪ RENESCO SIA ▪ ECUBA SRL ▪ ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)* ▪ CONSEIL DES ARCHITECTES D'EUROPE ▪ Department of Biochemistry and Molecular Biology
Countries: BE;RO;LV;EL;UK;IT;BG;NO;NL;ES;DE	
Objectives:	
<p>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 Building unit(s) - like aside or façade additions, rooftop extensions or even an entire new building construction - that adopt the existing buildings (the Assisted Buildings). The creation of these new Assistant Buildings' Additions integrated with Renewable Energy Sources aims at reducing the initial investment allocated for the deep renovation of the existing building creating an up-grading synergy between old and new. The ABRA strategy results in the implementation of a punctual densification policy that has been proven capable of fostering the investments in deep renovation of the existing built environment throughout Europe</p>	

Topic: EE-05-2015	Acronym: ENERFUND
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: An ENERgy Retrofit FUNding rating tool	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,539,252.50 €	EU max. contribution: 1,539,252.50 €
Coordinator: CYPRUS UNIVERSITY OF TECHNOLOGY	
Participants:	
<ul style="list-style-type: none"> ▪ MINISTERUL DEZVOLTARII REGIONALE SI ADMINISTRATIEI PUBLICE ▪ GEISLER SUSANNE ▪ INSTITUTO VALENCIANO DE LA EDIFICACION ▪ INSTITUT JOZEF STEFAN ▪ TECHNICKY A SKUSOBNY USTAV STAVEBNY n.o. ▪ ENERGEIAKO GRAFEO KYPRION POLITON (CYPRUS ENERGY AGENCY) ▪ CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FONDATION 	<ul style="list-style-type: none"> ▪ ENERGIES 2050 ▪ ENERMAP LIMITED ▪ ENERGY ACTION LIMITED ▪ AALBORG UNIVERSITET ▪ SUSTAINABLE ENERGY DEVELOPMENT AGENCY ▪ SEVERN WYE ENERGY AGENCY LTD ▪ INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE IN CONSTRUCTII URBANISM SI DEZVOLTARE TERITORIALA DURABILA URBAN-INCERC
Countries: BG;ES;AT;DK;RO;EL;SI;FR;CY;SK;IE;UK	
Objectives:	
<p>ENERFUND is a tool that will rate and score deep renovation opportunities – like a credit score used by banks to rate clients. The tool will be based on a methodology to be developed and on a set of parameters such as EPC data, number of certified installers, governmental schemes running, etc. By providing a rating for deep renovation opportunities – whether for private establishments or for public buildings – funding institutes can provide targeted loans, retrofit companies can identify sound opportunities, municipalities can promote targeted incentives and the public's trust for retrofitting will be enhanced.</p> <p>The objectives of the current proposal is to (a) analyse the status quo and needs of deep renovation stakeholders and the public, (b) build upon the outcomes of previous projects to create a tool for deep renovation financing, (c) promote the tool to all interested stakeholders, (d) measure and document the impact of the tool on deep renovation strategies and financing and (e) provide a powerful tool that will assist EU stakeholders meet their obligations on increasing renovation rates.</p> <p>The partners, from 12 countries, include 2 universities, in charge of the project management and the development of the methodology behind the tool, 2 SMEs with extensive experience on database management, EPC mapping, development of online decision-making tools, and 11 Ministries, Energy Agencies, NGOs, etc that are connected with the relevant stakeholders throughout Europe and can promote the tool.</p> <p>The expected impact is approximately 45GWh due to the use of the tool to promote deep renovation of buildings and through our training and dissemination activities. ENERFUND will account for approximately 1% of the current annual renovation rate during the project duration. The strategic, long term aim is to provide a unified global tool for the promotion, not only of deep renovation of buildings, but of all energy related activities in the building sector.</p>	

Topic: EE-05-2015	Acronym: TRANSITION ZERO
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Make Net Zero Energy refurbishments for houses a mass market reality	
Starting date: 01.03.2016	End date: 31.12.2018
Total Cost: 3,570,438.75 €	EU max. contribution: 3,570,438.75 €
Coordinator: THE NATIONAL ENERGY FOUNDATION	
Participants: <ul style="list-style-type: none"> ▪ NATIONAL HOUSING FEDERATION LIMITED ▪ COMITE EUROPEEN DE COORDINATION DE L'HABITAT SOCIAL AISBL ▪ UNION NATIONALE DES FEDERATIONS D'ORGANISMES D'HABITATIONS A LOYER MODERE ▪ GREENFLEX ▪ CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT ▪ FINANCE IDEAS BV ▪ FIBRES ENERGIVIE ▪ AEDES VERENIGING VAN WONINGCORPORATIES ▪ VERENIGING DE BREDESTROOMVERSHELLING 	
Countries: BE;NL;FR;UK	
Objectives: <p>TRANSITION ZERO will make Net Zero Energy (E=0) refurbishments a market reality in the UK, France and The Netherlands. Energiesprong brokered a deal between housing associations and builders to refurbish 111,000 houses to E=0 levels in the Netherlands of which the roll-out will be further supported. Building on the same methodology and the inspiring example, a similar innovation trajectory will be facilitated in the UK and France through two deals of 5,000 houses per market and building a pipeline of more demand.</p> <p>TRANSITION ZERO will organize massive demand for a E=0 refurbishment proposition from social housing organizations, facilitates financiers and governments to tune their financing products and regulations towards this product and challenges the construction sector to start an ambitious innovation process to deliver the proposition. The massive demand, the security that there will be finance available and an enabling regulatory environment will de-risk the innovation investment for the builders.</p> <p>The problem to solve to get these propositions to the market is not around technical challenges requiring breakthroughs. The problem is a set of market conditions that are not set right for the innovation process in the construction sector to take off. The consortium is therefore convinced that the market needs a new and independent actor to drive and coordinate actors to jointly develop all parts of the market solution in parallel. This independent actor is the TRANSITION ZERO market development team.</p> <p>The consortium has the partners and supporters to realize the objectives set out: National governments and specialized agencies; the three key financiers of social housing in the three countries; the European and all national umbrella organizations for social housing and 19 individual social housing organizations managing over half a million houses.</p>	

Topic EE-06 – Projects

Topic: EE-06-2015	Acronym: DR-BOB
Call: H2020-EE-2015-2-RIA	Type of Action: IA
Title: Demand Response in Block of Buildings	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 5,136,769.50 €	EU max. contribution: 4,274,499.50 €
Coordinator: TEESSIDE UNIVERSITY	
Participants: <ul style="list-style-type: none"> ▪ SERVELECT SRL ▪ SIEMENS PUBLIC LIMITED COMPANY ▪ CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT ▪ UNIVERSITATEA TEHNICA CLUJ-NAPOCA ▪ FONDAZIONE POLIAMBULANZA ▪ DUNEWORCS BV ▪ GRIDPOCKET SAS ▪ NOBATEK ▪ R2M SOLUTION SRL 	
Countries: NL;FR;RO;IT;UK	
Objectives: <p>The aim of the DR-BOB project is to demonstrate the economic and environmental benefits of demand response in blocks of buildings for the different key actors required to bring it to market. To achieve its aim the DR-BOB project will:</p> <ul style="list-style-type: none"> • Integrate existing technologies to form the DR-BOB Demand Response Energy Management solution for blocks-of-buildings with a potential ROI of 5 years or less. • Demonstrate the DR-BOB integrated solution at 4 sites operating under different energy market and climatic conditions in the UK, France, Italy and Romania with blocks-of-buildings covering a total of 274,665 m², a total of 47,600 occupants over a period of at least 12 months. • Realise up to 11% saving in energy demand, up to 35% saving in electricity demand and a 30% reduction in the difference between peak power demand and minimum night time demand for building owners and facilities managers at the demonstration. • Provide and validate a method of assessing at least 3 levels of technology readiness (1-no capability, 2-some capability, 3-full capability) related to the technologies required for consumers' facilities managers, buildings and the local energy infrastructure to participate in the Demand Response Energy Management solution at any given site. • Identify revenue sources with at least a 5% profit margin to underpin business models for each of the different types of stakeholders required to bring demand response in the blocks-of-buildings to market in different local and national contexts. • Engage with at least 2,000 companies involved in the supply chain for demand response in blocks of buildings across the EU to disseminate the projects goals and findings. 	

Topic: EE-06-2015	Acronym: Sim4Blocks
Call: H2020-EE-2015-2-RIA	Type of Action: IA
Title: Simulation Supported Real Time Energy Management in Building Blocks	
Starting date: 01.04.2016	End date: 31.03.2020
Total Cost: 5,563,356.25 €	EU max. contribution: 3,729,055.76 €
Coordinator: HOCHSCHULE FUR TECHNIK STUTTGART	
Participants: <ul style="list-style-type: none"> ▪ INSIGHT PUBLISHERS LIMITED ▪ EIFER EUROPAISCHES INSTITUT FUR ENERGIEFORSCHUNG EDF-KIT EWIV ▪ WATTGO ▪ RESTORE NV ▪ HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE ▪ STADTWERKE SCHWABISCH HALL GMBH ▪ ENERGEA INGENIERIA EN EFICIENCIA ENERGETICA SL ▪ CENTRE INTERNACIONAL DE METODES NUMERICIS EN ENGINYERIA ▪ EDF ENERGY R&D UK CENTRE LIMITED ▪ AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH ▪ UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN ▪ ELIMES AG NEUROBAT AG ▪ ENISYST GMBH ▪ GEMEINDE WUESTENROT ▪ S.P.M. PROMOCIONS MUNICIPALS DE SANT CUGAT DEL VALLÈS S.A. 	
Countries: CH;UK;AT;FR;ES;IE;DE;BE	
Objectives: <p>The growing share of variable renewable energy necessitates flexibility in the electricity system, which flexible energy generation, demand side participation and energy storage systems can provide. SIMBLOCK will develop innovative demand response (DR) services for smaller residential and commercial customers, implement and test these services in three pilot sites and transfer successful DR models to customers of Project partners in further European countries. The pilot sites are blocks of highly energy efficient buildings with a diverse range of renewable and cogeneration supply systems and requisite ICT infrastructure that allows direct testing of DR strategies. SIMBLOCK's main objectives are to specify the technical characteristics of the demand flexibility that will enable dynamic DR; to study the optimal use of the DR capability in the context of market tariffs and RES supply fluctuations; and to develop and implement market access and business models for DR models offered by blocks of buildings with a focus on shifting power to heat applications and optimization of the available energy vectors in buildings. Actions toward achieving these objectives include: quantifying the reliability of bundled flexibility of smaller buildings via pilot site monitoring schemes; combining innovative automated modelling and optimization services with big data analytics to deliver the best real time DR actions, including motivational user interfaces and activation programs; and developing new DR services that take into account the role of pricing, cost effectiveness, data policies, regulations, and market barriers to attain the critical mass needed to effectively access electricity markets. SIMBLOCK's approach supports the Work Program by maximizing the contribution of buildings and occupants and combining decentralized energy management technology at the blocks of building scale to enable DR, thereby illustrating the benefits achievable (e.g. efficiency, user engagement, cost).</p>	

Topic EE-07 – Projects

Topic: EE-07-2015	Acronym: EDI-Net
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: EDI-NET – The Energy Data Innovation Network; using smart meter data, campaigns and networking to increase the capacity of public authorities to implement sustainable energy policy	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,558,800.00 €	EU max. contribution: 1,558,800.00 €
Coordinator: DE MONTFORT UNIVERSITY	
Participants: <ul style="list-style-type: none"> ▪ STADT NURNBERG ▪ CENTRE INTERNACIONAL DE METODES NUMERICES EN ENGINYERIA ▪ CLIMATE ALLIANCE - KLIMA-BUENDNIS - ALIANZA DEL CLIMA e.V. ▪ EMPIRICA GESELLSCHAFT FUER KOMMUNIKATIONS- UND TECHNOLOGIE FORSCHUNG MBH ▪ Departament de Territori i Sostenibilitat - Generalitat de Catalunya ▪ LEICESTER CITY COUNCIL 	
Countries: DE;UK;ES	
Objectives: <p>The Energy Data Innovation Network (EDI-Net) will use smart energy and water meter data to accelerate the implementation of sustainable energy policy. It will do this by increasing the capacity of EU public authorities to act quickly and decisively. The capacity will be increased by the provision of just the right amount of intelligible information, by training and exchange of experiences of Public authorities and by provision of tools and support to implement and monitor their sustainable energy plans.</p> <p>To move beyond the traditional technical energy manager approach to use the information to engage with decision makers, finance managers and building users. To make energy more “visible”. To make energy and water data “more exciting” to buildings users. Innovation in terms of using big data analytics to address issues at scale. Big data; thousands of EU public buildings; information for decision makers, finance managers and building users; benchmarking of EU public buildings; and monitoring implementation of Sustainable Energy Action Plans or local Climate Protection Plans.</p> <p>The core of EDI-NET is the analysis of smart meter data from buildings, from renewable energy systems and from building energy management systems (BEMS) using Big Data analytics technologies. The attractive fruit around this core is an online forum to spread knowledge and facilitate exchange of experience and best practice through peer to peer education in a friendly and useful way. The tree that supports and ripens the fruit is the existing European network of Climate Alliance that builds the capacity of EU public authorities to more effectively implement sustainable energy policies.</p> <p>We recognise the smart meter data, by themselves, will not implement sustainable energy policy. However, when combined with on-line discussion forum, local campaigns, awareness raising and peer to peer knowledge transfer it can achieve savings of between 5 and 15 percent; at least 16 GWh/yr, worth over 1.5 M€</p>	

Topic: EE-07-2015	Acronym: EmBuild
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Empower public authorities to establish a long-term strategy for mobilizing investment in the energy efficient renovation of the building stock	
Starting date: 01.03.2016	End date: 31.08.2018
Total Cost: 1,554,192.50 €	EU max. contribution: 1,554,192.50 €
Coordinator: DEUTSCHE GESELLSCHAFT FUR INTERNATIONALE ZUSAMMENARBEIT (GIZ) GMBH	
Participants:	
<ul style="list-style-type: none"> ▪ REGIONALNA ENERGETSKA AGENCIJA SJEVEROZAPADNE HRVATSKE ▪ UNIVERZITET U BEOGRADU ▪ NALAS (RESEAU DES ASSOCIATIONS NATIONALES DE POUVOIRS LOCAUX DE L'EUROPE DU SUD-EST) ▪ ZAVOD ENERGETSKA AGENCIJA ZA SAVINJSKO SALESKO IN KOROSKO 	<ul style="list-style-type: none"> ▪ DZZD ENEFFECT GRUP ▪ AGENTIA PENTRU EFICIENTA ENERGETICASI ENERGII REGENERABILE PLOIESTI-PRAHOVA ASOCIATIE ▪ BUILDINGS PERFORMANCE INSTITUTE EUROPE ASBL ▪ ENERGIE & UMWELTZENTRUM ALLGAU GEMEINNUTZIGE GMBH ▪ TECHNISCHE UNIVERSITAET MUENCHEN
Countries: BE;RS;RO;DE;SI;HR;BG;FR	
Objectives:	
<p>40% of all energy consumption and 36% of CO2 emissions in the European Union arise in private and public buildings. Thus, major advancements have to be made in this sector to reach the EU's climate and energy targets. Energy-efficient buildings will also contribute to the vision of secure, affordable and climate-friendly energy for citizens and businesses as well as generating additional societal, environmental and economic benefits.</p> <p>To strengthen policies that promote retrofitting and modernizing existing buildings, the EU has adopted the Directive 2012/27/EU on Energy Efficiency (EED). It requires EU Member States and candidate countries to establish a long-term strategy for mobilizing investment in the renovation of the national building by 30 April 2014, and every 3 years thereafter. These action plans are an integral part of a country's National Energy Efficiency Action Plans. As of May 2015, 27 EU Member States have adhered to the requirement of Article 4, EED, and submitted their national building renovation strategy, albeit most did not meet the April deadline and some submitted their strategies as late as March 2015.</p> <p>However, the requirements to prepare these renovation strategies appear to have overburdened most EU member states. According to an analysis conducted by the Buildings Performance Institute Europe, only five countries have at least adequately complied with the five core elements described in Article 4 of the EED. To date, no renovation strategy has been submitted that can count as a 'best practice' and provide orientation for other countries.</p> <p>The project EmBuild (Empower public authorities to establish a long-term strategy for mobilizing investment in the energy efficient renovation of the building stock) is designed to empower public authorities at local, regional and national level, to formulate renovation strategies for the building sector that foster deep renovation and facilitate the acceleration of the renovation.</p>	

Topic: EE-07-2015	Acronym: EMPOWERING
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: EMPOWERING LOCAL PUBLIC AUTHORITIES TO BUILD INTEGRATED SUSTAINABLE ENERGY STRATEGIES	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,497,003.75 €	EU max. contribution: 1,497,003.75 €
Coordinator: SVIM - SVILUPPO MARCHE SPA SOCIETA UNIPERSONALE	
Participants:	
<ul style="list-style-type: none"> ▪ CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FOUNDATION ▪ ISTARSKA RAZVOJNA AGENCIJA, DRUSTVO ZA OBRADU PODATAKA, SAVJETOVANJE I ZASTUPANJE, DOO ▪ SP SVERIGES TEKNISKA FORSKNING SINSTITUT AB ▪ AGENCIA DE MEDIO AMBIENTE Y AGUA DE ANDALUCIA 	<ul style="list-style-type: none"> ▪ REGION OF CENTRAL MACEDONIA ▪ NORDA ESZAK-MAGYARORSZAGI REGIONALIS FEJLESZTESI UGYNOKSEG KOZHASZNU nonprofit KORLATOLT FELELOSSEGU TARSASAG ▪ Agentia pentru Dezvoltare Regionala Nord-Est
Countries: EL;HU;ES;SE;RO;HR	
Objectives:	
<p>EMPOWERING proposal contributes to the shift of 6 EU regions toward low-carbon society by enhancing the capacities of municipalities and regional representatives to shape integrated energy strategies and plans. The project contributes to bridge the gap of skills needed to plan energy measures in the new 2030 framework for Climate and Energy Policy in terms of GHG emission reduction, renewable energy and energy efficiency. EMPOWERING addresses energy saving challenges involving local municipalities and regional authorities in a sound transnational exchange and learning activities (WP3) including: a) transnational seminars; b) peer to peer exchange for regional authorities; c) study visit to one Eu best practice and two partners' best practice.</p> <p>Local target audience is then effectively reached thanks to ad hoc capacity local building measures (WP4) addressing different target groups to maximize the learning experience. The improved knowledge and competences of local authorities are put into practice during the adoption of new SEAPs and in the upgrading of the existing ones, while regional authorities are supported in shaping regional energy vision to 2050 highlighting the main energy challenges and identifying possible financial strategic actions to be implemented (WP5). The proposal is built on a solid and innovative strategic planning methodology which has a high replicability potential, strengthening the European added value of the project. This process is triggered by the cooperation of a comprehensive partnership, which involves technical-scientific partners and regional development agencies, creating the conditions to achieve project's objectives.</p>	

Topic: EE-07-2015	Acronym: INTENSSS-PA
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: A SYSTEMATIC APPROACH FOR INSPIRING TRAINING ENERGY-SPATIAL-SOCIOECONOMIC SUSTAINABILITY TO PUBLIC AUTHORITIES	
Starting date: 01.02.2016	End date: 31.07.2018
Total Cost: 1,707,925.00 €	EU max. contribution: 1,707,925.00 €
Coordinator: ETAIREIA DIOIKISEOS EPICHEIRISEON KAI ERGON AE	
Participants:	
<ul style="list-style-type: none"> ▪ GEMEENTE GRONINGEN ▪ CONSEJERIA DE FOMENTO Y MEDIO AMBIENTE - JUNTA DE CASTILLA Y LEON ▪ ENERGY CONSULTING NETWORK APS ▪ CENTRO NAZIONALE STUDI URBANISTICI ▪ BALTIJAS VIDES FORUMS ▪ CALABRIA REGIONE ▪ UNIVERSIDAD DE VALLADOLID ▪ ANAPTYXIAKI KARDITSAS ANAPTYXIAKI ANONIMI ETAIRIA O.T.A ▪ SILLOGOS ELLINON MICHANIKON POLEODOMIAS, CHOROTAXIAS KAI PERIFERIAKIS ANAPTIXIS 	<ul style="list-style-type: none"> ▪ ZEMGALES PLANOSANAS REGIONS ▪ GRANT THORNTON S.A. CHARTERED ACCOUNTANTS MANAGEMENT CONSULTANTS ▪ MIDDELFART KOMMUNE ▪ RIJKSUNIVERSITEIT GRONINGEN ▪ LOKALNA ENERGETSKA AGENCIJA ZA POMURJE ZAVOD ZA PROMOCIJO IN POSPEVANJE TRAJNOSTNEGA ENERGETSKEGA RAZVOJA MARTJANCI ▪ SKUPNOST OBCIN SLOVENIJE ▪ AGENZIA LOCALE PER L'ENERGIA E LO SVILUPPO SOSTENIBILE DELLA PROVINCIA DI COSENZA SRL
Countries: ES;EL;SI;NL;DK;LV;IT	
Objectives:	
<p>INTENSSS-PA will support public authorities to integrate the energy theme into spatial planning and regional physical and socioeconomic landscapes. To achieve this objective INTENSSS-PA will provide human and institutional capacity building to public authorities and to the wider network of private and public actors related to energy and regional planning by implementing the Living Lab concept, i.e. an innovative environment of co-creation. Specifically, a network of seven Regional Living Labs (RLL) within the seven different Countries/Regions that participate in the consortium (Thessaly-Greece, Calabria-Italy, Castilla y Leon- Spain, Association of Municipalities-Slovenia, Groningen-Netherlands, Triangle-Denmark and Zemgale-Latvia), will be created. Involving public authorities, private and civil society actors, the RLLs are focused on improving and designing a shared and integrated sustainable energy planning concept and on applying it in order to develop seven sustainable energy plans, i.e. one for each Region. The overall approach will involve learning sessions and experiential projects alongside intense networking. Communication and exploitation activities are envisaged including national Roadshows and a survey with policy makers. It is expected that over 200 people participate in the capacity-building activities performed within the RLLs network, while the stakeholders and policy makers informed on the project results and activities will exceed the 1000 individuals. The project objectives are completely inline with topic EE07's scope, since it considers innovative capacity building activities to public authorities for integrated energy planning through the establishment of a network of RLLs, i.e. of an ecosystem that stakeholders bring their own specific wealth of knowledge and expertise to the collective, helping to achieve boundary spanning knowledge transfer. Special consideration will be provided on planning requirements deriving from 27/2012/EU Directive.</p>	

Topic: EE-07-2015	Acronym: ODYSSEE-MURE
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: ODYSSEE-MURE, a decision support tool for energy efficiency policy evaluation.	
Starting date: 01.02.2016	End date: 31.07.2018
Total Cost: 1,794,537.50 €	EU max. contribution: 1,794,537.50 €
Coordinator: AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE	
Participants:	
<ul style="list-style-type: none"> ▪ MINISTERIE VAN ECONOMISCHE ZAKEN ▪ SUSTAINABLE ENERGY AND WATER CONSERVATION UNIT ▪ GLOWNY URZAD STATYSTYCZNY ▪ SLOVENSKA INOVACNA A ENERGETICKA AGENTURA ▪ INSTITUT JOZEF STEFAN ▪ TALLINNA TEHNIKAULIKOOL ▪ FIZIKALAS ENERGETIKAS INSTITUTS ▪ KRAJOWA AGENCJA POSZANOWANIA ENERGII SA ▪ ADENE - AGENCIA PARA A ENERGIA ▪ CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FOUNDATION ▪ STATENS ENERGI MYNDIGHET ▪ The sustainable Energy Authority of Ireland ▪ INSTITUTO PARA LA DIVERSIFICACION Y AHORRO DE LA ENERGIA ▪ ENERGISTYRELSEN ▪ OSTERREICHISCHE ENERGIAGENTUR AUSTRIAN ENERGY AGENCY ▪ ISTITUTO DI STUDI PER L'INTEGRAZIONE DEI SISTEMI SC ▪ ENERDATA SAS 	<ul style="list-style-type: none"> ▪ TECHNOLOGIKO PANEPISTIMIO KYPROU ▪ MAGYAR ENERGETIKAI ES KOZMU-SZABALYOZASI HIVATAL - MEKH ▪ INSTITUTT FOR ENERGITEKNIKK ▪ AUTORITATEA NATIONALA DE REGLEMENTARE IN DOMENIUL ENERGIEI ▪ ECONOTEC SPRL ▪ LIETUVOS ENERGETIKOS INSTITUTAS ▪ MY ENERGY GIE ▪ ENVIROS S.R.O. ▪ SUSTAINABLE ENERGY DEVELOPMENT AGENCY ▪ AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE ▪ MOTIVA OY ▪ ENERGETSKI INSTITUT HRVOJE POZAR ▪ RICARDO AEA LIMITED ▪ STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND ▪ Fraunhofer Institute Applied Information Technology
Countries: BG;IE;BE;SK;EL;ES;NL;SI;EE;IT;SE;FI;LU;UK;DE;AT;HU;LT;RO;PL;LV;MT;CY;HR;PT;CZ;DK;NO;FR	

Objectives:

The 2012 Energy Efficiency Directive (EED) establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020. Countries have also set their own indicative national energy efficiency targets. To reach these targets, EU countries have to implement energy efficiency policies and monitor their impact. The Commission has also the task of monitoring the impacts of the measures to check that the EU is on track with its 2020 target.

The objective of the ODYSSEE MURE 2015 proposal is to contribute to this monitoring:

- By updating two comprehensive databases covering each EU MS; ODYSSEE on energy consumption and energy efficiency indicators, and MURE on energy efficiency measures;
- By providing new and innovative trainings and didactical documents to national, regional and local administrations in EU MS to raise their capacity and expertise in the field of energy efficiency monitoring and impact evaluation.
- By extending the evaluation of the impact of energy efficiency from energy and CO2 savings, as already done in ODYSSEE, to the multiple other benefits.

The updating of two databases ODYSSEE and MURE will play a key role to provide updated and centralized information required by each MS and the Commission to assess, monitor and evaluate energy efficiency progress and the state of implementation of measures and their impact.

The project will provide innovative training tools and documents in a very user friendly way to public administrations to help them in implementing the monitoring of the progress achieved with indicators, in designing new policy measures and assessing the impacts of these measures, not only in terms of energy savings, but also in terms of the other benefits linked to energy efficiency improvements.

Finally, the project will try to provide an assessment of the multiple benefits of energy efficiency policies for all MS combining existing evaluation and new calculations.

Topic: EE-07-2015	Acronym: PUBLENEF
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Supporting PUBLIC Authorities for Implementing Energy Efficiency Policies	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,983,012.50 €	EU max. contribution: 1,960,992.50 €
Coordinator: STICHTING JOINT IMPLEMENTATION NETWORK	
Participants:	
<ul style="list-style-type: none"> ▪ ARENE ▪ TIPPERARY ENERGY AGENCY LBG ▪ FEDERATION EUROPEENNE DES AGENCES ET DES REGIONS POUR L'ENERGIE ET L'ENVIRONNEMENT AISBL ▪ O.Oe. Energiesparverband ▪ CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT ▪ CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FONDATION 	<ul style="list-style-type: none"> ▪ ASOCIATIA AGENTIA PENTRU EFICIENTA ENERGETICA SI PROTECLIA MEDIULUI ▪ ENERGY CITIES/ENERGIE-CITES ASSOCIATION ▪ AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE ▪ ASSOCIATION OF BULGARIAN ENERGY AGENCIES (ABEA) ▪ CENTAR ZA PRACENJE POSLOVANJA ENERGETSKOG SEKTORA I INVESTICIJA ▪ KRAJOWA AGENCJA POSZANOWANIA ENERGII SA
Countries: AT;EL;ES;IT;FR;BE;PL;BG;IE;RO;HR	
Objectives:	
<p>PUBLENEF's overarching goal is to assist Member States in implementing effective and efficient sustainable energy policies (with the focus on energy efficiency) and empower them to make use of the best practices and policy processes implemented in other MS at the national, regional and/or local level. The specific objectives of the project are to a) Assess and learn from existing Energy Efficiency policy implementation practices in EU member states, regions and cities, b) Strengthen networking opportunities for public agencies on the national, regional and local level, and c) Develop and adjust tools for public agencies to help them implement Energy Efficiency policies. The target audience of PUBLENEF consists of the following groups: National, regional and local authorities, Policy implementation bodies, networks of local and regional authorities, and Market actors and bodies participating in EE policies. The overall approach of the project in order to fulfill these objectives is to: a) Identify the needs from national, regional and local authorities for the implementation of EE policies, b) Collect the best practices and tools for overcoming these needs and replicate them to various MS, regions and municipal authorities, c) develop roadmaps and enhance the process of successful implementation of policies, and d) build and strengthen existing networks of policy makers enabling the knowledge exchange from national to regional to local level in EE policy. As PUBLENEF is a highly policy participatory project, it has ensured the involvement of key players in all energy efficiency policy making field throughout the EU. PUBLENEF has ensured a fine mix of energy agencies (and associations of cities and regions) involved in the formulation of energy efficiency policies on the national, regional and local level and building capacity.</p>	

Topic: EE-07-2015	Acronym: SIMPLA
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: SIMPLA - Sustainable Integrated Multi-sector PLanning	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,499,197.50 €	EU max. contribution: 1,499,197.50 €
Coordinator: CONSORZIO PER L AREA DI RICERCA SCI ENTIFICA E TECNOLOGICA DI TRIESTE CONSORZIO AREA	
Participants: <ul style="list-style-type: none"> ▪ CONSILIUL JUDETEAN ALBA ▪ REGIONE ISTRIANA ▪ PRIMORSKO - GORANSKA ZUPANIJA ▪ UNION OF BULGARIAN BLACK SEA LOCALAUTHORITIES SDRUZHENIE ▪ DIPUTACION PROVINCIAL DE HUELVA ▪ STENUM UNTERNEHMENSBERATUNG UND FORSCHUNGSGESELLSCHAFT FUR UMWELTFRAGEN MBH ▪ REGIONE AUTONOMA FRIULI-VENEZIA GIULIA ▪ Agentia Locala a Energiei Alba ▪ REA KVARNER REGIONALNA ENERGETSKA AGENCIJA PRIMORSKO GORANSKE ZUPANIJE DOO ▪ DOBRICH LOCAL AGENCY FOR ENERGY MANAGEMENT ▪ DIPUTACION PROVINCIAL DE ZARAGOZA ▪ FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS ▪ Land Kärnten ▪ Promoscience srl ▪ REGIONE TOSCANA 	
Countries: RO;HR;ES;BG;AT;IT	
Objectives: <p>SIMPLA responds to topic EE 7 'Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures' and its ultimate goal is empowering public authorities to develop, implement and finance sustainable energy policies and actions by creating the conditions for a smart integration between SEAPs (Sustainable Energy Action Plans) and SUMP (Sustainable Urban Mobility Plans) - or similar plans - in cities, towns and their aggregations with a population between 50.000 and 350.000 inhabitants.</p> <p>SIMPLA's work-plan focuses on the establishment of a network of National Focal Points (NFPs) in 6 countries (expanding to further 12 through replication actions) merging technical expertise, methodological know-how and institutional capacity of technical partners and public authorities.</p> <p>The NFPs realize an ambitious, innovative work-plan, encompassing capacity building and coaching (on-site and via the web), enhancement of multi-level governance looking for synergies and economies of scale, extensive involvement of public authorities and stakeholders, promotion of mutual learning and best practices.</p> <p>EU added value (involving countries and areas with different levels of tradition in integrated multi-sector planning) and capitalization of previous EU-funded initiatives are among the project's guiding principles.</p> <p>SIMPLA thus contributes to the EU's energy and climate targets for 2020 and beyond, reducing GHG emissions, increasing the share from RES and improving energy efficiency, focusing upon sectors with high energy-saving potential (primarily buildings, renewables for electricity production, urban freight transport and passengers' mobility).</p> <p>The intensive exploitation of existing networks to promote and support the implementation of project activities in the framework of a sound and comprehensive promotion and dissemination plan helps guarantee a consistent and significant impact on a wide, relevant and varied audience.</p>	

Topic EE-09 – Projects

Topic: EE-09-2015	Acronym: EU-MERCI
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: EU-MERCI - EU coordinated MEthods and procedures based on Real Cases for the effective implementation of policies and measures supporting energy efficiency in the Industry	
Starting date: 01.02.2016	End date: 31.01.2018
Total Cost: 1,473,379.38 €	EU max. contribution: 1,473,378.74 €
Coordinator: RICERCA SUL SISTEMA ENERGETICO - RSE SPA	
<p>Participants:</p> <ul style="list-style-type: none"> ▪ CENTRUL PENTRU PROMOVAREA ENERGIEI CURATE SI EFICIENTA IN ROMANIA ENERO ASOCIATIEI ▪ AGENCIJA ZA PRESTRUKTURIRANJE ENERGETIKE DOO ▪ OSTERREICHISCHE ENERGIEAGENTUR AUSTRIAN ENERGY AGENCY ▪ KRAJOWA AGENCJA POSZANOWANIA ENERGII SA ▪ STICHTING JOINT IMPLEMENTATION NETWORK ▪ SPREAD EUROPEAN SAFETY GEIE ▪ SDRUZHENIE CHERNOMORSKI IZSLEDOVATELSKI ENERGIEN TSENTAR ▪ THE CARBON TRUST ▪ FEDERAZIONE ITALIANA PER L'USO RAZIONALE DELL'ENERGIA ▪ CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FONDATION 	
Countries: SI;IT;EL;RO;AT;PL;UK;BG;NL	
<p>Objectives: The overarching objective of EU-MERCI is to support, in a coordinated way, the growth of energy efficiency in industry processes. It will develop methods and tools for assisting EU industry in the effective implementation of energy efficiency improvements and in the monitoring of the energy savings, in application of the 2012/27/EU Directive.</p> <p>The methodology will be based on the analysis of thousands real energy efficiency projects implemented according with the current energy policies and measures in different MSs and dealing with tenths of different industry sectors and processes. Energy efficiency solutions will be typified according with agreed criteria concerning applications, processes and technologies: best practices, algorithms and procedures of efficiency assessment will be derived, harmonized and standardized. The goal is to answer the questions:</p> <p>what are the most effective actions improving the efficiency in a particular process or industry sector? How to specifically implement them? What are the most promising technologies? What is the efficiency improvement attainable with each action? How to measure, monitor and report the savings? What are the associated costs?</p> <p>EU-MERCI, with recommendation and specific dissemination actions, will also assist policy makers and public authorities in the assessment of the effectiveness and transparency of the mechanisms, giving them also a picture of the technologies and efficiency improvements to incentive.</p> <p>Lessons learned from countries with consolidated energy efficiency schemes in place will be transferred to countries less advanced.</p> <p>The outputs of EU-MERCI will be specifically validated for the agrifood industry at a pan-European level.</p> <p>Finally, it is expected that, as a result of the assistance to industry, the number and effectiveness of energy efficiency improvements will greatly increase, thus contributing to the attainment of the EU and national energy goals.</p>	

Topic: EE-09-2015	Acronym: PANEL 2050
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Partnership for New Energy Leadership 2050	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,790,500.00 €	EU max. contribution: 1,790,500.00 €
Coordinator: MITTETULUNDUSUHING TARTU REGIOONI ENERGIAAGENTUUR	
Participants: <ul style="list-style-type: none"> ▪ SDRUZHIE VVF - SVETOVEN FOND ZA DIVATA PRIRODA, DUNAVSKO-KARPATSKA PROGRAMA BULGARIA ▪ VIDZEMES PLANOSANAS REGIONS ▪ University of Tartu ▪ EESTI MAULIKOOL ▪ MAZOWIECKA AGENCJA ENERGETYCZNA SPZOO ▪ ASOCIATIA AGENTIA PENTRU EFICIENTA ENERGETICA SI PROTECLIA MEDIULUI ▪ CONPLUSULTRA GMBH ▪ AGENDA Z.S. ▪ WWF VILAG TERMESZETI ALAP MAGYARORSZAG ALAPITVANY ▪ LOKALNA ENERGETSKA AGENTURA SPODNJE PODRAVJE ZAVOD ZA PROMOCIJO IN POSPESEVANJE TRAJNOSTNEGA ENERGETSKEGA RAZVOJA PTUJ ▪ IGNALINOS ATOMINES ELEKTRINES REGIONO PLETROS AGENTURA ▪ BALKAN DEVELOPMENT SOLUTIONS LTD SKOPJE 	
Countries: BG;LV;EE;AT;LT;MK;CZ;SI;RO;HU;PL	
Objectives: <p>The aim of PANEL 2050 project is to create durable and replicable sustainable energy networks at local (municipality/community) level, where relevant local stakeholders collaborate for the creation of a local energy visions, strategies and action plans for the transition towards low carbon communities in 2050. The PANEL 2050 project will focus on the creation of these sustainable local energy networks in CEE countries, where this type of networks at local level is almost completely absent and therefore additional support is needed for the creation of the first successful local energy networks that have the potential to set an example and a new standard for local energy road mapping in other local communities in the CEE region. Furthermore, the PANEL 2050 project will not choose a specific focus on a certain type of stakeholder, but will try to work at the local level and assemble all relevant and available stakeholders related to sustainable energy. The number and type of stakeholders will vary very much in different local settings and the ambition of this project is to create sustainable energy networks at local level that will connect and involve all relevant stakeholders that are present at local level into the local policy development and implementation. At present, the involvement of local shareholders in local policy development in any field in CEE countries is very limited and the aim of this project is to create durable sustainable energy networks in a number of local communities in different CEE countries that will also be a replicable example that can be spread to other communities in CEE countries. Introducing stakeholder concept to energy planning will help generate sustainable energy policies and create more sustainable future for Europe.</p>	

Topic: EE-09-2015	Acronym: PremiumLight_Pro
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Next-level energy efficient lighting systems in the service sector	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,997,987.50 €	EU max. contribution: 1,997,987.50 €
Coordinator: OSTERREICHISCHE ENERGIEAGENTUR AUSTRIAN ENERGY AGENCY	
Participants:	
<ul style="list-style-type: none"> ▪ POLITECNICO DI MILANO - Dipartimento di Elettronica e Informazione ▪ INSTITUTO DE SISTEMAS E ROBOTICA-ASSOCIACAO ▪ SEVEN STREDISKO PRO EFEKTIVNI VYUZIVANI ENERGIE O.P.S. 	<ul style="list-style-type: none"> ▪ FUNDACJA NA RZECZ EFEKTYWNEGO WYKORZYSTANIA ENERGII ▪ ASOCIACION ECOSERVEIS ▪ CO2ONLINE GENUETZIGE BERATUNGSGESELLSCHAFT MBH ▪ THE ENERGY SAVING TRUST LTD BY GUARANTEE ▪ KOFOD CASPER
Countries: CZ;DE;ES;PL;PT;UK;IT;DK	
Objectives:	
<p>Innovative LED lighting technology for the private and public service sector provides many opportunities for more efficient high quality lighting systems. Modern LED solutions are based on optimised luminaires and advanced flexible lighting control and allow a more effective use of daylight. Despite the significant saving potentials, there are still relatively few policy measures implemented at international and national level that stimulate respectively facilitate the use of optimised LED lighting systems. LED lighting for the service sector is only partly supported by current EU legislation, however further developments are ongoing. At national level in the different EU-Member States good pilot initiatives for efficient LED-systems in the services sector already have been implemented. However the number of implementations is still limited and a broad market penetration has not yet been achieved. National and local policies supporting efficient LED technology are largely missing. The project PremiumLight_Pro aims at addressing the major saving potentials by supporting public authorities in the development of effective policies to facilitate the implementation of efficient new generation LED lighting systems in the service sector. The project shall support the implementation of policies including green procurement criteria and design guidelines for the planning and installation of both for outdoor and indoor lighting systems, education and capacity building for planners, architects, installers and consultants, incentives schemes, contracting, information services including product database and others. Furthermore the project will support energy efficient lighting in the national implementation of the EPBD and the development and implementation of supportive legislation at EU-level. The proposal thereby explicitly targets the central objectives of EE9 of the call for proposals. The initiative is supported by more than 50 major stakeholders in 9 EU countries.</p>	

Topic EE-10 – Projects

Topic: EE-10-2015	Acronym: Digi-Label
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Delivering digital Energy Labelling solutions to enable consumer action on purchasing energy efficient appliances	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,650,034.63 €	EU max. contribution: 1,650,033.25 €
Coordinator: THE ENERGY SAVING TRUST LTD BY GUARANTEE	
Participants: <ul style="list-style-type: none"> ▪ ADELPHI RESEARCH GGMBH ▪ ESCAN SL ▪ COLLABORATIVE LABELING AND APPLIANCE STANDARDS PROGRAM - CLASP ▪ Fraunhofer Institute Applied Information Technology ▪ VERBRAUCHERZENTRALE BUNDESVERBAND E.V. ▪ SOLSTICE ASSOCIATES LIMITED ▪ SOCIETA COOPERATIVA SOCIALE ELIANTE ONLUS ▪ BUREAU EUROPEEN DE L'ENVIRONNEMENT AISBL ▪ SEVEN STREDISKO PRO EFEKTIVNI VYUZIVANI ENERGIE O.P.S. ▪ EUROPEAN ENVIRONMENTAL CITIZENS ORGANISATION FOR STANDARDISATION 	
Countries: CZ;DE;UK;US;BE;IT;ES	
Objectives: <p>Digi-Label will design and deliver digital tools and solutions to compliment the EU energy label. Through these we aim to positively influence consumer buying choices and ultimately deliver greater energy savings and increased market share of the highest performing appliances. The consortium will target 4 of the top 5 EU economies – Germany, Spain, Italy and the UK – leveraging the biggest impact on energy saving – through established commitments from manufacturers and retailers to test and launch the digital solutions. The Digi-Label approach brings together a highly experienced consortium including CLASP, EEB, Fraunhofer, SEVEN and the Energy Saving Trust, with proven expertise in energy labelling of products, dissemination & communication, European and International project management of energy labelling programmes, manufacturer and retailer stakeholder relationship management, evaluation and consumer engagement.</p>	

Topic: EE-10-2015	Acronym: DOMINO
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: DOMINO - Connecting Europe, Saving Energy	
Starting date: 01.03.2016	End date: 31.10.2018
Total Cost: 1,099,590.00 €	EU max. contribution: 1,099,590.00 €
Coordinator: ADELPHI RESEARCH GGMBH	
Participants:	
<ul style="list-style-type: none"> ▪ ENERGY AGENCY OF PLOVDIV ASSOCIATION ▪ INSTITUT BRUXELLOIS POUR LA GESTION DE L'ENVIRONNEMENT ▪ Plugwise B.V. 	<ul style="list-style-type: none"> ▪ AGENZIA NAPOLETANA PER L'ENERGIA E PER L'AMBIENTE ▪ ARCTIK SPRL
Countries: IT;NL;BG;BE	
Objectives:	
<p>The DOMINO project will nudge more than 3,400 households from the regions of Brussels, Berlin and Naples towards more energy efficient behaviour and will connect participating households in their region to nurture peer-learning and strengthen social bonds. To this end, a variety of behavioural interventions will be combined in a smart plug challenge. In this challenge, households in each region form teams that will be provided with smart plug equipment and a smartphone app allowing them to monitor and control their electricity consumption and serving as a means to directly communicate with them and support them with tailored energy conservation advice. By combining feedback, prompts, goal setting, peer comparison, rewards and other behavioural levers, the project will lead to an annual reduction in primary energy consumption of more than 14.48 GWh. Throughout the project, data will be generated that allows looking into energy consumption patterns of households and their appliances. Furthermore, the actual potential for energy savings through behavioural change as well as through the application of smart plug technology and similar innovative product-system-services can be monitored and evaluated very precisely. The project will thereby not only contribute to reducing energy consumption in the three target region and to improving the awareness for the innovative smart plug technology but will also advance the scientific and public debate on energy consumption behaviour and on behavioural interventions for energy efficiency. In addition to creating direct energy savings and to building knowledge, the project will also contribute to building capacities and skills among participating households, multipliers in energy agencies across Europe, policy-makers on national and European level as well as municipalities and energy providers. At the end of the project, smart plugs will be passed on to organisations who will keep lending them to interested consumers.</p>	

Topic: EE-10-2015	Acronym: REScoop Plus
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: REScoop Plus	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,498,937.50 €	EU max. contribution: 1,498,937.50 €
Coordinator: LEVELCARDINAL UNIPessoal LDA	
Participants:	
<ul style="list-style-type: none"> ▪ SUDTIROLER ENERGIE VERBAND GENOSSENSCHAFT ▪ THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE ▪ RESCOOP EU ASBL ▪ AVANZI SRL ▪ SOM ENERGIA SCCL ▪ ECOPOWER 	<ul style="list-style-type: none"> ▪ UNIVERSITEIT TWENTE ▪ EBO Consult AS ▪ ORGANISATIE VOOR HERNIEUWBARE ENERGIE DECENTRAAL ▪ COOPERNICO - COOPERATIVA DE DESENVOLVIMENTO SUSTENTAVEL CRL ▪ ENERCOOP
Countries: FR;NL;BE;IT;DK;EL;PT;ES	
Objectives:	
<p>REScoop Plus built on the knowledge and network of the REScoop 20-20-20 project. An interesting additional observation made in the project was that members of supplying REScoops change their behaviour reducing final energy consumption and investing money to produce RESenergy. The aim of the REScoop PLUS is therefore to get a better understanding and foster this behavioural change. It will identify and measure the best practices, share their knowledge, improve their activities in in their citizen's engagement and energy efficiency actions and disseminate them to other supplying REScoops in Europe.</p> <p>The objective of REScoop PLUS is to make REScoops in Europe go beyond their activities of producing and supplying energy and take up energy savings for their members as a new pillar in their organisation. The largest supplying energy REScoops in Europe have recently taken up this task in several experimental projects, with different rates of success for different measures and geographies. The aim is now to go beyond the experimental phase and create a toolkit with a range of best practice products like communication tools, ICT tools for better measurements or new business models that support energy savings of consumers/members by changing the behaviour of consumers that are ready for market uptake by REScoops to implement into their organisation in order to reduce the CO2 footprint of their members.</p>	

Topic: EE-10-2015	Acronym: START2ACT
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Engaging European Start-ups and Young SMEs for Action for Sustainable Energy	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,447,543.75 €	EU max. contribution: 1,447,543.75 €
Coordinator: EUROPA MEDIA SZOLGALTATO NON PROFITKOZHASZNU KFT	
Participants:	
<ul style="list-style-type: none"> ▪ STARTUPS.BE ▪ KRAJOWA AGENCJA POSZANOWANIA ENERGII SA ▪ SLOVENSKA INOVACNA A ENERGETICKA AGENTURA ▪ SOFIA ENERGY AGENCY ASSOCIATION ▪ GEONARDO ENVIRONMENTAL TECHNOLOGIES LTD 	<ul style="list-style-type: none"> ▪ CENTRUL PENTRU PROMOVAREA ENERGIEI CURATE SI EFICIENTA IN ROMANIA ENERO ASOCIATIEI ▪ ENERGETSKI INSTITUT HRVOJE POZAR ▪ ENVIROS S.R.O. ▪ STICHTING CENTERDATA ▪ THE CARBON TRUST
Countries: BG;SK;NL;HU;RO;BE;PL;HR;UK;CZ	
Objectives:	
<p>START2ACT aims to reduce residential energy consumption in the EU via changing the behaviour of consumers in their everyday lives by approaching them at their workplace. With a focus on European start-ups and young SMEs, the project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.</p> <p>Even though each start-up and SME consumes relatively small energy amounts, the collective environmental impact of 20 million SMEs in the EU is massive, contributing to 64% of environmental impact. Active engagement of start-ups and young SMEs is essential in order to reach the 20-20-20 EU goals and there is market potential for almost all enterprises to cost effectively reduce their energy consumption. START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.</p> <p>A key area of intervention to increase energy efficiency through behavioural change is office equipment, the fastest growing energy user in the business world, consuming 15% of the total electricity used in offices, which is expected to rise to 30% by 2020. START2ACT aims to trigger the use and uptake of the many available tools and solutions offering a great potential for energy and money savings, yet not adequately used due to lack of understanding of how to use them in practice and due to insufficient engagement of people towards changing behaviour in everyday life. START2ACT aims also to trigger sustainable procurement of office equipment, including the selection and furnishings of premises (HVAC, lighting, etc.), and goods and services. In so doing, START2ACT will sow the seeds of a sustainable energy culture in start-ups and young SMEs.</p>	

Topic EE-11 – Projects

Topic: EE-11-2015	Acronym: ChArGED
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: CleAnweb Gamified Energy Disaggregation	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 2,220,312.50 €	EU max. contribution: 2,220,312.50 €
Coordinator: EUROPEAN DYNAMICS BELGIUM SA	
Participants: <ul style="list-style-type: none"> ▪ Ministère de la Culture ▪ INSTITUT CATALA D'ENERGIA ▪ THE PEAK LAB GMBH & CO KG ▪ ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER ▪ WATTICS LIMITED ▪ DIMOS ATHINAION EPICHEIRISI MICHANOGRAFISIS ▪ PROSYST SOFTWARE GmbH ▪ PLEGMA LABS TECHNOLOGIKES LYSEIS ANONYMOS ETAIRIA 	
Countries: DE;EL;LU;IE;ES	
Objectives: <p>ChArGED addresses the energy consumption in public buildings and proposes a framework that aims to facilitate achieving greater energy efficiency and reductions of wasted energy in public buildings. The framework leverages IoT enabled, low-cost devices (NFC or iBeacons) to improve energy disaggregation mechanisms that provide energy use and (consequently) wastages at the device, area and end user level. These wastages will be targeted by a gamified application that feeds personalized real-time recommendations to each individual end user. The design of the game will follow a cleanweb approach and implement a novel social innovation process that will be designed based on human inceptives factors and will help users to understand the environmental implications of their actions and adopt a more green, active and responsible behaviour. The blend of social interaction and competitions with its personalized character are expected to eventually contribute to the user engagement and commitment to generate savings in the long term leading to tackle energy efficiency targets in public buildings while emphasizing on cost effectiveness. Furthermore, users will become more educated on energy efficiency actions and their impacts which has an impact beyond the actual public building. Efficient energy use will render its consumption predictable and this will be exploited by the ChArGED gamified application to optimize use of the micro-generated energy. Users will be motivated to reduce energy consumption when power comes from the grid. Predictable energy consumption will also support more informed decisions of micro-generation sources to match the use patterns. The ChArGED solution will be developed with iterative end users representatives' engagement during analysis, design and development. Further users at least 150 real building occupants in three (3) countries (50 in each building- validation country) will be engaged for deployment and validation.</p>	

Topic: EE-11-2015	Acronym: GAIA
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: Green Awareness in Action	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,775,707.00 €	EU max. contribution: 1,775,707.00 €
Coordinator: INSTITOUTO TECHNOLOGIAS YPOLOGISTONKAI EKDOSEON DIOFANTOS	
Participants:	
<ul style="list-style-type: none"> ▪ SPARK WORKS ITC ▪ OVER SOCIETA PER AZIONI ▪ CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI ▪ SODERHAMNS KOMMUN 	<ul style="list-style-type: none"> ▪ OVOS MEDIA GMBH ▪ ELLINOGERMANIKI AGOGI SCHOLI PANAGEA SAVVA AE ▪ SYNELIXIS LYSEIS PLIROFORIKIS AUTOMATISMOU & TILEPIKOINONION MONOPROSOPI EPE ▪ Eurodocs AB
Countries: IT;SE;EL;AT;UK	
Objectives:	
<p>The GAIA project focuses on the educational community; faculty, staff, students and parents at all levels of education: primary/secondary/high schools and universities. Targeting Energy Efficiency in the context of the educational community is clearly very important due to a number of reasons since raising awareness among young people and changing their behaviour and habits concerning energy usage is key to achieving sustained energy reductions and it will also indirectly affect their immediate family environment, while achieving energy reduction in the school buildings. GAIA will create an innovative ICT ecosystem (including web-based, mobile, social and sensing elements) tailored specifically for school environments, taking into account both the users (faculty, staff, students, parents) and buildings (schools, universities, homes) that will motivate and support citizens' behavioural change to achieve greater energy efficiency. GAIA will include also a set of pilots in different countries. GAIA will directly educate over 6.900 users, influence and attempt to transform their behaviour through a series of trials conducted in the educational environment and in homes. We expect a larger number of people to be informed about the activities of GAIA and be positively affected towards an energy-efficient behaviour transformation.</p>	

Topic: EE-11-2015	Acronym: GREENSOUL
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: Eco-aware Persuasive Networked Data Devices for User Engagement in Energy Efficiency	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,881,500.00 €	EU max. contribution: 1,881,500.00 €
Coordinator: WELLNESS SMART CITIES SLU	
Participants: <ul style="list-style-type: none"> ▪ CEL-F SOLAR SYSTEMS LIMITED ▪ WEIZER ENERGIE-INNOVATIONS-ZENTRUM GMBH ▪ ALLIA LTD ▪ COGNIMA LIMITED ▪ CAMBRIDGE CLEANTECH LTD ▪ UNIVERSIDAD DE LA IGLESIA DE DEUSTO ▪ DIMOS PYLAIAS CHORTIATI ▪ 4WARD ENERGY RESEARCH GMBH ▪ ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS 	
Countries: UK;EL;AT;ES	
Objectives: <p>GreenSoul pursues higher energy efficiency in public buildings by altering the way people use energy consuming shared devices (lights, printers) and personal devices (personal pluggable appliances). For that, it applies a twofold strategy: 1)persuades users to increase their energy-awareness and change their e-consumption habits and 2)embeds intelligence in the devices to let them autonomously decide about their operation mode for energy efficiency purposes. For the first part, it will use a variety of techniques, from persuasive social applications to physical interaction mechanisms linked to the devices. For the second part, it will learn from the usage habits, acting only when an energy wasteful behaviour is detected or the users do not heed the devices' suggestions. The aim is to add a green-soul to devices in a pluggable manner to avoid costly replacement of equipment and the corresponding disposal of old-fashioned devices to the landfill.</p> <p>GreenSoul's exploitation potential is addressed towards buildings of public use. There, the persuasion of users is particularly challenging since they hardly perceive the benefits of having eco-friendly behaviour, i.e. they do not pay the electricity bill. GreenSoul will design and develop an integrated ICT platform to: a) improve users awareness of their energy consumption habits; b)study the ecological behaviour of the people in shared environments; c)analyse the effectiveness of different persuasion techniques; d)assist users through a decision-support engine's recommendations; and e)provide socio-economic evidence about the viability of the changes proposed.</p> <p>GreenSoul aims to prove that combined behavioural and ICT interventions over public buildings result in energy savings which surpass 20%. It will be deployed in five building pilots at different climatic areas and associated to different usage and facilities, ensuring the cross-country and cross-building analysis of the impact of GreenSoul.</p>	

Topic: EE-11-2015	Acronym: PEAKapp
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: Personal Energy Administration Kiosk application: an ICT-ecosystem for Energy Savings through Behavioural Change, Flexible Tariffs and Fun	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,938,085.00 €	EU max. contribution: 1,938,085.00 €
Coordinator: ENERGIEINSTITUT AN DER JOHANNES KEPLER UNIVERSITAT LINZ VEREIN	
Participants:	
<ul style="list-style-type: none"> ▪ RTDS - VEREIN ZUR FORDERUNG DER KOMMUNIKATION UND VERMITTLUNG VON FORSCHUNG, TECHNOLOGIE UND INNOVATION (RTDS VEREIN, ENGL. RTDS ASSOCIATION) ▪ ELEKTRIK DAGITIM HIZMETLERI DERNEGI BASKANLIGINA 	<ul style="list-style-type: none"> ▪ BASKENT ELEKTRIK DAGITIM ANONIM SIRKETI ▪ DANMARKS TEKNISKE UNIVERSITET ▪ 220 ENERGIA OU ▪ ENAMO GMBH ▪ FUNDACION TECNALIA RESEARCH & INNOVATION ▪ IJSFONTEIN HOLDING BV ▪ GREENPOCKET GMBH
Countries: AT;ES;DE;EE;TR;DK;NL	
Objectives:	
<p>PEAKapp targets the development of an unprecedented ICT-to- Human ecosystem to trigger lasting energy savings through behavioural change and continuous engagement, to enable increased consumption of clean and low-priced electricity from the spot market for household customers, to connect them to social networks, to motivate them through serious gaming, and to boost the efficacy of Smart Home building energy management systems by integrating their functionalities into the PEAKapp solution.</p> <p>With this first close-to-market-ready attempt to provide households with a dynamic electricity tariff in the EU, the door is opened for the most significant impact on the household electricity market since its liberalisation.</p> <p>The ICT ecosystem will be designed to require smart meters as only hardware with respect to in-house equipment, such that the system can be implemented almost immediately, given the EU targets for smart meter roll-out. These low hardware requirements allow for a fast market uptake, and thus a noticeable impact on EU energy consumption can be experienced with almost no delay and without the need of having to equip the 230mio dwellings in the EU with any extra efficiency hardware. Validation of the ICT ecosystem under real life conditions in the publicly owned social housing sector will be carried out in Austria, Estonia, Sweden and Finland, and analyses of the collected data will allow for ground-breaking insights into consumer behaviour, while outstanding EU energy market analyses will derive implications for regulatory practice to better support energy efficiency goals.</p> <p>An outstanding market uptake strategy makes >3 electricity utilities ready-to-sign the implementation of the ICT-system, advises the European social housing sector about its benefits, and fosters European and international market uptake by distinguished exploitation activities, where the leading US stakeholder EPRI takes responsibility without funding.</p>	

Topic EE-13 – Projects

Topic: EE-13-2015	Acronym: E2District
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: Energy Efficient Optimised District Heating and Cooling	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,999,850.00 €	EU max. contribution: 1,999,849.50 €
Coordinator: CORK INSTITUTE OF TECHNOLOGY	
Participants: <ul style="list-style-type: none"> ▪ ACCIONA INFRAESTRUCTURAS S.A. ▪ UNITED TECHNOLOGIES RESEARCH CENTRE IRELAND, LIMITED ▪ VEOLIA ENVIRONNEMENT RECHERCHE ET INNOVATION SNC ▪ CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT 	
Countries: IE;FR;ES	
Objectives: <p>Intelligent Energy Europe expects district heating to double its share of the European heat market by 2020 while district cooling will grow to 25%. While this expansion will translate into 2.6% reduction in the European primary energy need and 9.3% of all carbon emissions, it will not be achieved through modernization and expansion alone but requires fundamental technological innovation to make the next generation of district heating and cooling (DHC) systems highly efficient and cost effective to design, operate and maintain. E2District aims to develop, deploy, and demonstrate a novel cloud enabled management framework for DHC systems, which will deliver compound energy cost savings of 30% through development of a District Simulation Platform to optimise DHC asset configuration targeting >5% energy reduction, development of intelligent adaptive DHC control and optimisation methods targeting an energy cost reduction between 10 and 20%, including flexible production, storage and demand assets, and system-level fault detection and diagnostics, development of behaviour analytics and prosumer engagement tools to keep the end user in the loop, targeting overall energy savings of 5%. Development of a flexible District Operation System for the efficient, replicable and scalable deployment of DHC monitoring, intelligent control, FDD and prosumer engagement, development of novel business models for DHC Operators, Integrators and Designers, validation, evaluation, and demonstration of the E2District platform, and development of strong and rigorous dissemination, exploitation and path-to-market strategies to ensure project outcomes are communicated to all DHC stakeholders. E2District addresses specifically the call's objective related to the development of optimisation, control, metering, planning and modelling tools including consumer engagement and behaviour analytics and supports the integration of multiple generation sources, including renewable energy and storage.</p>	

Topic: EE-13-2015	Acronym: INDIGO
Call: H2020-EE-2015-2-RIA	Type of Action: RIA
Title: New generation of Intelligent Efficient District Cooling systems	
Starting date: 01.03.2016	End date: 31.08.2019
Total Cost: 2,878,860.31 €	EU max. contribution: 2,237,500.00 €
Coordinator: GIROA SOCIEDAD ANONIMA	
Participants:	
<ul style="list-style-type: none"> ▪ NATIONAL UNIVERSITY OF IRELAND, GALWAY ▪ CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT 	<ul style="list-style-type: none"> ▪ R2M SOLUTION SRL ▪ Teknologian tutkimuskeskus VTT Oy ▪ FUNDACION TEKNIKER
Countries: ES;CH;IE;IT;FI	
Objectives:	
<p>In Europe, different prognosis show an increase in cooling demand of almost 60% in 2030 with respect to nowadays. District cooling (DC) can play a part in satisfying this demand in a sustainable way (since can offer 5 to 10 times higher efficiency solutions than on-site stand-alone distributed systems). Even if DC captures only minor portion of the prospective market, this will translate into a dramatic increase in the size of the global DC sector.</p> <p>INDIGO aims to develop a more efficient, intelligent and cheaper generation of DC systems by improving system planning, control and management, anticipating the aforementioned scenario. This target will be achieved through the following specific objectives:</p> <ul style="list-style-type: none"> • Contribute to the wider use of DC systems and motivate the competitiveness of European DC market by the development of two open-source tools: <ul style="list-style-type: none"> o A planning tool for DC systems with the aim of supporting their optimal design o A library with thermo-fluid dynamic models of DC System components which will provide the designers detailed information about their physical behaviour • Primary energy reduction over 45% addressed by a ground breaking DC system management strategy focused mainly on energy efficiency maximization but also on energy cost minimization. Its main characteristics is the predictive management but it also will address other challenges such as: <ul style="list-style-type: none"> o Integration of Renewable Energy Sources o Dealing with different types of cooling sources o Suitable coupling between generation, storage and demand <p>All this, with the help of intelligent and innovative component controllers (Predictive Controllers) to be developed at all DC system levels. Some of them include embedded self-learning algorithms, allowing components to respond appropriately to the set-points established.</p> <p>Developments carried out within INDIGO will be validated in a real District Heating and Cooling installation with appropriate conditions for testing the new functionalities.</p>	

Topic EE-14 – Projects

Topic: EE-14-2015	Acronym: HRE
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Heat Roadmap Europe (HRE): Building the knowledge, skills, and capacity required to enable new policies and encourage new investments in the heating and cooling sector	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 2,113,482.50 €	EU max. contribution: 1,946,042.50 €
Coordinator: AALBORG UNIVERSITET	
Participants:	
<ul style="list-style-type: none"> ▪ BUILDINGS PERFORMANCE INSTITUTE EUROPE ASBL ▪ EUROHEAT & POWER ▪ TEP ENERGY GMBH ▪ ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS ▪ UNIVERSITEIT UTRECHT ▪ PLANENERGI FOND ▪ HOGSKOLAN I HALMSTAD ▪ EUROPEAN HEAT PUMP ASSOCIATION GEIE 	<ul style="list-style-type: none"> ▪ EUROPEAN HEAT PUMP ASSOCIATION ▪ ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)* ▪ SVEUCILISTE U ZAGREBU, FAKULTET STROJARSTVA I BRODOGRADNJE ▪ Fraunhofer Institute Applied Information Technology ▪ EUROPA-UNIVERSITAT FLENSBURG ▪ JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION
Countries: BE;DK;HR;NL;DE;FR;CH;SE	
Objectives:	
<p>In Europe, there is a clear long-term objective to decarbonize the energy system, but it is very unclear how this will be achieved in the heating and cooling sector. As a result, there is currently a lot of uncertainty among policymakers and investors in the heating and cooling sector, primarily due to a lack of knowledge about the long-term changes that will occur in the coming decades. This HRE proposal will enable new policies as well as prepare the ground for new investments by creating more certainty in relation to the changes that are required. The work in this proposal will build on three previous HRE studies, all of which have been successfully completed on time and all of which have already influenced high-level policymakers at EU and national level in Europe. The work from these previous studies will be significantly improved in this project. The new knowledge in this project will:</p> <ul style="list-style-type: none"> - Improve at least 15 new policies at local, national, or EU level, - Specify how up to 3,000,000 GWh/year of fossil fuels can be saved in Europe, and - Quantify how the €3 trillion of investment required to implement these savings will reduce the net cost of heating and cooling in Europe. <p>Furthermore, one of the most significant improvements compared to previous studies is the dissemination and communication strategy that has been developed as part of this proposal. These activities represent the largest work package in this proposal, which is necessary to ensure that policymakers, investors, and researchers at local, national, and EU level are all aware of the new data, tools, methodologies, and results from this project. The dissemination activities are expected to directly build the skills and capacity of at least 350 people in specific target groups identified by the consortium, while the communication activities will inform at least 50,000 people about the project activities and results.</p>	

Topic: EE-14-2015	Acronym: SuperSmart
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Expertise hub for a market uptake of energy-efficient supermarkets by awareness raising, knowledge transfer and pre-preparation of an EU Ecolabel	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,467,907.50 €	EU max. contribution: 1,467,907.50 €
Coordinator: SINTEF ENERGI AS	
Participants:	
<ul style="list-style-type: none"> ▪ DPTU ENERGIJA DOO ▪ TECHNISCHE UNIVERSITAT BRAUNSCHWEIG ▪ Federal Environment Agency ▪ SHECCO SPRL ▪ Consiglio Nazionale delle Ricerche 	<ul style="list-style-type: none"> ▪ International Institute of Refrigeration ▪ FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS ▪ KUNGLIGA TEKNISKA HOEGSKOLAN
Countries: ES;SE;DE;MK;IT;BE;FR	
Objectives:	
<p>Supermarkets comprise various technical disciplines: buildings, heating-, cooling- and ventilations systems. Over one million supermarkets across Europe require ca. 4% of the total electricity. New integrated technologies for more efficient supermarkets are now available and efficiency improvements up to 30% have already been demonstrated. These heating and cooling technologies offer in the mid-term both environmental and economic benefits. The uptake of such efficient solutions is mainly hindered by non-technological market barriers.</p> <p>SuperSmart tackles different barrier categories, both short-term (awareness and knowledge) and long-term (organizational, political, social), even though an immediate impact on the sector will be expected to come already from the removal of the short-term hindrances. The purpose of the SuperSmart hub is to establish a knowledge transfer and promotion platform devoted to the supermarket sector to educate/train and crosslink stakeholders of various backgrounds in such a way that the uptake of energy-efficient heating and cooling solutions is made possible. Specific objectives pursued by the hub for the supermarket sector contain:</p> <ul style="list-style-type: none"> - Reduce the environmental impact and primary energy demand - Support the introduction of a new EU Ecolabel for Supermarkets - Determine and remove challenges hindering the implementation of eco-energy supermarkets - Raise the expertise level of the different decision makers (non –technical and tech. staff) related to energy usage of equipment and the benefit of integrated systems. Encourage to supply energy (heating&cooling) to nearby business units or local grids. - Conduct direct communication among R&D organizations, suppliers, end users and governmental bodies on potential legislative initiatives <p>Active participation at 10 conferences & fairs and 5 dedicated workshops will disseminate the information beside trainings, and the online end-user expert panels, manufacture panels and innovation panels.</p>	

Topic EE-15 – Projects

Topic: EE-15-2015	Acronym: INTAS
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: INdustrial and tertiary product Testing and Application of Standards	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,906,966.25 €	EU max. contribution: 1,880,448.00 €
Coordinator: WIRTSCHAFT UND INFRASTRUKTUR GMBH & CO PLANUNGS KG	
Participants: <ul style="list-style-type: none"> ▪ AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE ▪ FUNDACJA NA RZECZ EFEKTYWNEGO WYKORZYSTANIA ENERGII ▪ TURVALLISUUS JA KEMIKAALIVIRASTO ▪ SEVEN STREDISKO PRO EFEKTIVNI VYUZIVANI ENERGIE O.P.S. ▪ OSTERREICHISCHE ENERGIEAGENTUR AUSTRIAN ENERGY AGENCY ▪ EUROPEAN ENVIRONMENTAL CITIZENS ORGANISATION FOR STANDARDISATION ▪ AUTORIDADE SEGURANCA ALIMENTAR E ECONOMICA ▪ FUNDACION PARA EL FOMENTO DE LA INNOVACION INDUSTRIAL ▪ AUTORITATEA NATIONALA DE REGLEMENTARE IN DOMENIUL ENERGIEI ▪ DIRECAO-GERAL DE ENERGIA E GEOLOGIA ▪ TEKNOLOGISK INSTITUT ▪ SERVICE PUBLIC FEDERAL SANTE PUBLIQUE, SECURITE DE LA CHAINE ALIMENTAIRE ET ENVIRONNEMENT ▪ WAIDE STRATEGIC EFFICIENCY LIMITED ▪ ECD SRL ▪ EUROPEAN COPPER INSTITUTE 	
Countries: CZ;FI;UK;DK;PL;BE;IT;ES;PT;AT;RO	

Objectives:

There is a need to strengthen the capacity of Market Surveillance Authorities (MSAs) to conduct Ecodesign related market surveillance activities with respect to new and pending industrial and tertiary sector products. Especially in the case of customised products which are unsuitable for testing in laboratories. There is a lack of expertise, experience, and resources available across Europe for such kind of testing. An increasing concern is that new regulations addressing these products risk being unenforceable. The aim of the INTAS project is to address these concerns and provide technical and cooperative support, as well as capacity building activities, to MSAs charged with enforcing these regulations. The need for the INTAS project arises from the difficulty that MSAs and market actors face in establishing and verifying compliance with energy performance requirements for large industrial products subject to requirements of the Ecodesign Directive. The focus of the project is to support compliance for very large industrial products, specifically transformers and industrial fans, with the requirements of the Ecodesign Directive. The energy consumption of transformers and industrial fans is very significant and thus the risk of losses due to poor compliance cannot be ignored. The project aims to:

- a. support European Member State MSAs deliver compliance for large products (specifically for transformers and large fans);
- b. support industry to be sure of what their obligations are under the Ecodesign Directive and to deliver compliance in a manner that will be broadly accepted by MSAs;
- c. foster a common European approach to the delivery and verification of compliance for these products.

The INTAS project involves 16 partners among them there are 11 organisations, which are National MSAs or cooperating closely with the National MSAs, targeting 10 European countries (Austria, Belgium, Czech Republic, Denmark, Finland, Poland, Portugal, Romania, Spain and Italy).

Topic: EE-15-2015	Acronym: MSTYR15
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Market Surveillance Action for Tyres 2015	
Starting date: 01.03.2016	End date: 28.02.2018
Total Cost: 1,854,675.00 €	EU max. contribution: 1,854,674.25 €
Coordinator: STICHTING PROSAFE (THE PRODUCT SAFETY ENFORCEMENT FORUM OF EUROPE)	
Participants:	
<ul style="list-style-type: none"> ▪ MINISTRY OF SCIENCE, INDUSTRY AND TECHNOLOGY ▪ STATENS ENERGIMYNDIGHET ▪ AGENCIA ESPANOLA DE CONSUMO, SEGURIDAD ALIMENTARIA Y NUTRICION ▪ URZAD OCHRONY KONKURENCJI I KONSUMENTOW ▪ VALSTYBINE VARTOTOJU TEISIU APSAUGOS TARNYBA VI ▪ LIIKENTEEN ▪ TURVALLISUUSVIRASTO ▪ SERVICE PUBLIC FEDERAL ▪ SANTE PUBLIQUE, SECURITE DE LA CHAINE ALIMENTAIRE ET ENVIRONNEMENT 	<ul style="list-style-type: none"> ▪ AUTORITATEA NATIONALA PENTRU PROTECTIA CONSUMATORILOR ▪ INSTITUT LUXEMBOURGEOIS DE LA NORMALISATION, DE L'ACCREDITATION, DE LA SECURITE ET QUALITE DES PRODUITS ET SERVICES ▪ CONSUMER RIGHTS PROTECTION CENTRE ▪ LANDESAMT FUER MESS- UND EICHWESEN RHEINLAND-PFALZ ▪ KESKKONNAIN SPEKTSIOON ▪ Ministry of Economy ▪ COMMISSION FOR CONSUMER PROTECTION
Countries: TR;LV;EE;SE;BE;FI;LU;DE;RO;ES;BG;PL;LT;HR	

Objectives:

MSTyr15 (Market Surveillance Action TYRes 2015) will help deliver the economic and environmental benefits of Regulation (EC) No. 1222/2009 on the labelling of tyres with respect to fuel efficiency.

It will achieve this by:

- Coordinating the monitoring, verification and enforcement activities of 13 Market Surveillance Authorities (MSAs) across the Single Market and Turkey;
- Improving the effectiveness of the MSAs through skills-building training, the provision of guidelines and the promotion of Best Practices.

MSTyr15 will enhance the functioning of the European Single Market by ensuring that the tyres regulatory measures are effectively enforced across MS. It will deliver energy savings >105 GWh/year through removing incorrectly labelled tyres from the market.

Experience and resources for enforcement have been very limited in many MS since the tyres regulations were introduced in 2009. MSTyr15 includes mechanisms for assisting the skills development of less experienced staff and their authorities, supporting the adoption of common best practices and providing budgets to cover the high costs of testing tyres to the required standards.

It will coordinate market surveillance actions involving checks on in excess of 15,000 tyres. It will deliver a higher level of surveillance activities that go beyond testing. The consortium will work closely with other non-participating MSAs across the EEA through its liaison with the Tyres ADCO. Additionally, the MSTyr15 consortium will work together with an Advisory Board comprising of supply-side business, consumer organisations and environmental NGOs.

The expected results are:

- Adoption of best practices;
- Market surveillance being undertaken in a more cost effective and consistent manner;
- Increased awareness of and respect for market surveillance by tyres suppliers and users;
- Effective enforcement of EC Regulation on the labelling of tyres resulting in substantial energy savings expected to be better than 105 GWh/year.

Topic EE-16 – Projects

Topic: EE-16-2015	Acronym: EE-METAL
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Applying energy efficient measures for metal and metalworking SMEs and industry	
Starting date: 01.03.2016	End date: 28.02.2019
Total Cost: 1,717,456.25 €	EU max. contribution: 1,717,456.25 €
Coordinator: ASOCIACION DE LA INDUSTRIA NAVARRA	
Participants: <ul style="list-style-type: none"> ▪ UNION DES INDUSTRIES METALLURGIQUESMECANIQUES ELECTRIQUES ET ELECTRONIQUES DU RHONE ▪ ASOCIACION DE EMPRESARIOS DEL COMERCIO E INDUSTRIA DEL METAL DE MADRID ▪ CSMT GESTIONE SCARL ▪ AGENCJA UZYTKOWANIA I POSZANOWANIA ENERGII SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA ▪ MP POLSKIE KLASTRY SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA ▪ ASSOCIAZIONE INDUSTRIALE BRESCIANA 	
Countries: IT;PL;FR;ES	
Objectives: <p>EE-METAL aims to provide enterprises with innovative technical, commercial and financial tools in order to overcome the existing barriers that hinder the adoption of energy saving measures. EE-METAL actions are mainly targeted to Metalworking and Metal Articles (MMA) SMEs, given that this sector is the biggest manufacturing sector in Europe and it is mostly composed by SMEs. EE-METAL actions will focus on overcoming:</p> <p>Awareness, information and technical capacity barriers to identify, evaluate and implement energy efficiency actions: EE-METAL will adapt and standardize for the sector existing methods and technologies such as energy audits, the standard ISO 50.001 and the use of Energy Monitoring Systems.</p> <p>Commercial and market barriers to the contracting of energy service companies (ESCOs): development of a benchmarking study of energy service contracts and the role of ESCOs in the MMA and other industrial sectors; networking with ESCOs Associations for fostering ESCOs-SMEs contracts.</p> <p>Financial barriers to the implementation of energy saving measures: benchmarking the different financial models being implemented in the partner countries for financing energy saving institutions for providing clear information on type and size of investments needed.</p> <p>These two last actions will allow put in place mechanisms for funding the energy efficiency projects identified in the first action. In this sector, big energy savings can be obtained by the aggregation of many smaller savings.</p> <p>Furthermore five out of the seven project partners are Enterprise/Trade Associations (with 7000 associated companies) that will ensure that a critical mass is achieved.</p> <p>EE-METAL is in line with the following EU strategies and initiatives: first priority of the EU Energy 2020 Strategy for Achieving an energy efficient Europe; Energy efficiency plan 2011 (COM (2011) 109); A strategy for competitive, sustainable and secure energy (COM (2010) 639 final) and Directives 2012/27/EU-2</p>	

Topic: EE-16-2015	Acronym: energywater
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Improving energy efficiency in industrial water processes through benchmarking and benchlearning tools in Europe manufacturing industry.	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,980,187.50 €	EU max. contribution: 1,980,187.50 €
Coordinator: INSTITUTO TECNOLÓGICO DE CASTILLA Y LEON	
Participants:	
<ul style="list-style-type: none"> ▪ WINGS ICT SOLUTIONS INFORMATION & COMMUNICATION TECHNOLOGIES EPE ▪ OFFICE INTERNATIONAL DE L'EAU ▪ ENERGEIAKO GRAFEIO KYPRION POLITON (CYPRUS ENERGY AGENCY) ▪ THE CARBON TRUST 	<ul style="list-style-type: none"> ▪ OKAVANGO ENERGY SAS ▪ SMART FUTURE SRL ▪ EUROPEAN WATER SUPPLY AND SANITATION TECHNOLOGY PLATFORM ▪ CORK INSTITUTE OF TECHNOLOGY ▪ SOCIEDAD CASTELLANA DE MANTENIMIENTO Y EXPLOTACION SA
Countries: EL;ES;BE;IT;FR;UK;IE;CY	
Objectives:	
Objectives	
<p>1. Improve the competitiveness of the EU industrial sector by reducing 20% energy costs in industrial water processes. (WP4)</p> <p>A total reduction of 26 GWh/year will be achieved at the end of the project implementing energy efficiency measures in the European manufacturing companies.</p>	
<p>2. Identify saving potentials and benchmark energy performance through an Energy Management Self-Assessment (EMSA) collaborative web-tool. (WP1 & WP2)</p> <p>Manufacturing industries can anonymously introduce their data into the EMSA web-tool to know their ranking regarding other industries with the same processes.</p>	
<p>3. Strengthen the energy saving market through the creation of an “Energy Angels” network: facilitating contacts with skilled energy managers and auditors and providing access to support for the implementation and financing of water energy efficiency projects. (WP3)</p> <p>The energywater proposal will prepare the ground for investment facilitating information about potential savings and establishing a network of qualified providers (with technical and financial skill). Furthermore the Energy Angels network will implement a training module to improve the availability of skilled energy managers and auditors in which at least 200 people will be trained.</p>	
<p>4. Improve energy performance in industrial water processes through benchmarking activities and a best practice guide based on real experience case studies. (WP4)</p> <p>Saving strategies identified in the EMSA web-tool will be implemented in manufacturing industries. The best energy saving strategies to manage industrial water processes will be compiled in a guidance document.</p>	
<p>5. Influence energy efficiency regulation through public authorities' involvement. (WP4)</p> <p>In order to optimise energy efficiency in manufacturing industries both private and public stakeholders have to be aware of their role. We will make public authorities part of the energywater project with the objective to identify and remove regulatory and non-regulatory barr</p>	

Topic: EE-16-2015	Acronym: SCOoPE
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Saving COOPerative Energy	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,796,003.75 €	EU max. contribution: 1,796,003.75 €
Coordinator: COOPERATIVAS AGRO-ALIMENTARIAS DE ESPANA U. DE COOP.	
Participants: <ul style="list-style-type: none"> ▪ UNIVERSIDAD POLITECNICA DE MADRID ▪ FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS ▪ GAIA EPICHEIREIN ANONYMI ETAIREIA PSIFIAKON YPIRESION ▪ SOCIETA COOPERATIVA AGRICOLO FORESTALE - D.R.E.AM. ITALIA ▪ SERVICES COOP DE FRANCE, UNION DES COOPERATIVES AGRICOLES ▪ AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE ▪ LANDBRUG & FODEVARER LANDBRUGSRAADET DANSK LANDBRUG FORENING ▪ LANTMANNEN EKONOMISK FORENING ▪ CONFEDERACAO NACIONAL DAS COOPERATIVAS AGRICOLAS E DO CREDITO AGRICOLA DE PORTUGAL CCRL 	
Countries: ES;FR;IT;DK;EL;SE;PT	
Objectives: <p>SCOoPE project will work directly with energy-intense agro-food industries to implement cross-cutting and collaborative energy management systems addressed to reduce their energy consumption, and will further spread this knowledge within technicians, businesses managers, and energy and agro-food institutions.</p> <p>The project SCOoPE aims at achieving the challenges of the topic EE 16-2014/2015. Regarding the use of cost-effective energy solutions, the project objective is to reduce energy consumption at a short term in a range between 10% and 15% directly in 81 businesses belonging to the agro-food target sectors of the project (namely crop drying, meat and poultry, dairy, and fruit and vegetables transformation). This reduction must be achieved without any decrease in the production capacity of the companies and maintaining correct socioeconomic and environmental conditions. In order to do that, the project will work with the uptake of specific and cross-cutting innovative technologies and techniques, which efficacy has been proven in other industrial sectors, different from agro-food sector, but that are not yet familiar to project's target sectors.</p> <p>On the other hand, the project pursues larger savings in the medium term with new affordable energy solutions, specifically by developing the concept of "Collaborative Energy Management Systems". It will take advantage of complementarities and synergies between analysed industrial sites with similar characteristics and will use them for the improvement of their joint energy efficiency. For this purpose, 6 pilot industrial clusters will be run in order to prove the improvements of total energy consumptions and its associated costs, achieved by using common procedures based on ISO 50.001 and supported by an specific software (Dashboard) developed by the project. All these experiences will be promoted to encourage target groups to reduce their energy consumption, following the example of the directly involved companies.</p>	

Topic: EE-16-2015	Acronym: WaterWatt
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Improvement of energy efficiency in industrial water circuits using gamification for online self-assessment, benchmarking and economic decision support	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,782,532.50 €	EU max. contribution: 1,782,532.50 €
Coordinator: DECHEMA GESELLSCHAFT FUER CHEMISCHE TECHNIK UND BIOTECHNOLOGIE E.V.	
Participants:	
<ul style="list-style-type: none"> ▪ Cardiff University ▪ SINTEF ENERGI AS ▪ INSTITUTO DE SOLDADURA E QUALIDADE 	<ul style="list-style-type: none"> ▪ ISTITUTO SUPERIORE MARIO BOELLA SULLE TECNOLOGIE DELL'INFORMAZIONE E DELLE TELECOMUNICAZIONI ASSOCIAZIONE ▪ VDEH-BETRIEBSFORSCHUNGSINSTITUT GMBH
Countries: IT;DE;PT;NO;UK	
Objectives:	
<p>The improvement of energy efficiency across European industry is crucial for competitiveness. So far, the measures for improvement of energy efficiency have been directed at primary production processes. In this project, we will address the improvement of energy efficiency in industrial water circuits: auxiliary electric motor driven systems with high optimisation potential. The European manufacturing industry consumes about 37 000 million m³/y freshwater recycling it up to 10 times with the specific electrical energy consumption >0.2 kWh/m³. By the according energy consumption of 74 000 GWh/a the potential 10% savings amount to 7 400 GWh/a. Currently, there is neither a benchmark on the energy consumption in industrial water circuits, nor tools for its systematic reduction, nor awareness of the saving potential. The WaterWatt project aims to remove market barriers for energy efficient solutions, in particular the lack of expertise and information on energy management and saving potential in industrial water circuits. The aims will be achieved through: i) case studies in relevant industries, ii) development of improvement measures for energy efficiency in industrial water circuits, iii) market studies, iv) capacity building activities and v) dissemination in workshops and by e-learning. An Energy Efficiency Evaluation Platform (E³ Platform) will be developed to disseminate knowledge/know-how on energy efficiency improvements using gaming approach. The tools of E³ Platform will be used by SMEs and large industrial producers for self-assessment and improvement of the energy efficiency in their circuits. WaterWatt will reach more than 2000 relevant persons, organisations and policy makers triggering investments of €7-12 million resulting in primary energy saving of 100-180 GWh/a during the project life-time. The planned spin-off company will ensure further investments and savings after the project has finished.</p>	

Topic EE-18 – Projects

Topic: EE-18-2015	Acronym: Indus3Es
Call: H2020-EE-2015-1-PPP	Type of Action: RIA
Title: Industrial Energy and Environment Efficiency	
Starting date: 01.10.2015	End date: 01.07.2019
Total Cost: 3,858,500.00 €	EU max. contribution: 3,858,500.00 €
Coordinator: FUNDACION TECNALIA RESEARCH & INNOVATION	
Participants: <ul style="list-style-type: none"> ▪ BS NOVA APPARATEBAU GMBH; ▪ REPSOL SA; ▪ Turkiye Petrol Rafinerileri Anonim Sirketi; ▪ TECHNISCHE UNIVERSITAET BERLIN; ▪ FERTINAGRO NUTRIENTES, S.L. ▪ SISTEMES AVANCATS DE ENERGIA SOLAR TERMICA SCCL - AIGUASOL; ▪ TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY; ▪ PNO INNOVATION; ▪ FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS; 	
Countries: DE;ES;TR;IL;BE	
Objectives: <p>Large quantities of waste heat are continuously rejected from industries. Most of this waste energy, however, is of low-quality and is not practical or economical to recover it with current technologies. The Indus3Es project will develop an innovative Absorption Heat Transformer (AHT) for this purpose, focused on low temperature waste heat recovery (below 130°C). The Indus3Es System will effectively recover and revalorize about 50% of the low-temperature waste heat, increasing quality of the waste source to the required temperature and reusing it again in the industrial process.</p> <p>The main objective is to develop an economically viable solution for industry, appropriate for new but also for existing plants and adaptable to various industrial processes. The developed system will be demonstrated in real environment in Tupras, a petrochemical industry in Turkey, enabling to analyze besides integration aspects, operational and business issues of Indus3Es System.</p> <p>Indus3Es System will be defined and optimized for different specificities in different sectors and industrial processes, for which up-scaling of the demonstrated technology and replication studies will be performed. Market potential evaluation and business analysis will be performed by industrial partners in order to guarantee a successful exploitation of the system in a short future.</p> <p>Indus3Es system will have a relevant impact making possible an energy efficiency increase and primary energy consumption of most energetic intensive industries in Europe. The embodied energy, the environmental footprint of the products and the manufacturing costs of energy intensive industries will be reduced, increasing the competitiveness of European products. Moreover, it will allow a sustainable economic activity for local “auxiliary” companies, usually SMEs, in high added value services related to the energy efficiency measures for industry.</p>	

Topic: EE-18-2015	Acronym: I-ThERM
Call: H2020-EE-2015-1-PPP	Type of Action: RIA
Title: Industrial Thermal Energy Recovery Conversion and Management	
Starting date: 01.10.2015	End date: 01.04.2019
Total Cost: 3,996,168.75 €	EU max. contribution: 3,996,168.75 €
Coordinator: BRUNEL UNIVERSITY LONDON	
Participants:	
<ul style="list-style-type: none"> ▪ SPIRAX-SARCO LIMITED; ▪ TECHNOLOGIKO EKPEDEFTIKO IDRIMA STEREAS ELLADAS; ▪ E4-EXPERTS GMBH; ▪ ECONOTHERM (UK) LIMITED; ▪ ARLUY SL; ▪ SYNESIS SOCIETA' CONSORTILE A RESPONSABILITA' LIMITATA; 	<ul style="list-style-type: none"> ▪ ARCELORMITTAL ESPANA SA; ▪ AVANZARE INNOVACION TECNOLOGICA SL; ▪ CENTER OF TECHNOLOGY RESEARCH AND INNOVATION LTD; ▪ ENOGIA; ▪ TATA STEEL UK LIMITED; ▪ CYPRUS UNIVERSITY OF TECHNOLOGY
Countries: UK;ES;EL;DE;CY;FR;IT	
Objectives:	
<p>Waste heat recovery systems can offer significant energy savings and substantial greenhouse gas emission reductions. The waste heat recovery market is projected to exceed €45,0 billion by 2018, but for this projection to materialise and for the European manufacturing and user industry to benefit from these developments, technological improvements and innovations should take place aimed at improving the energy efficiency of heat recovery equipment and reducing installed costs. The overall aim of the project is to develop and demonstrate technologies and processes for efficient and cost effective heat recovery from industrial facilities in the temperature range 70 oC to 1000 oC and the optimum integration of these technologies with the existing energy system or for over the fence export of recovered heat and generated electricity if appropriate. To achieve this challenging aim, and ensure wide application of the technologies and approaches developed, the project brings together a very strong consortium comprising of RTD providers, technology providers and more importantly large and SME users who will provide demonstration sites for the technologies. The project will focus on two-phase innovative heat transfer technologies (heat pipes-HP) for the recovery of heat from medium and low temperature sources and the use of this heat for; a) within the same facility or export over the fence; b) for generation of electrical power; or a combination of (a) and (b) depending on the needs. For power generation the project will develop and demonstrate at industrial sites the Trilateral Flush System (TFC) for low temperature waste heat sources, 70 oC to 200 oC and the Supercritical Carbon Dioxide System (sCO2) for temperatures above 200 oC. It is projected that these technologies used alone or in combination with the HP technologies will lead to energy and GFG emission savings well in excess of 15% and attractive economic performance with payback periods of less than 3,0 years.</p>	

Topic: EE-18-2015	Acronym: SUSPIRE
Call: H2020-EE-2015-1-PPP	Type of Action: RIA
Title: Sustainable Production of Industrial Recovered Energy using energy dissipative and storage technologies	
Starting date: 01.10.2015	End date: 01.10.2018
Total Cost: 3,722,017.50 €	EU max. contribution: 3,722,016.75 €
Coordinator: PRECICAST BILBAO SA	
Participants: <ul style="list-style-type: none"> ▪ DOW CORNING EUROPE SA; ▪ TELUR GEOTERMIA Y AGUA SA; ▪ FUNDACION TEKNIKER; ▪ QPUNKT GMBH; ▪ BAYERISCHES ZENTRUM FUR ANGEWANDTEENERGIEFORSCHUNG ZAE EV ▪ UAB MODERNIOS E-TECNOLOGIJOS; ▪ TECNODELTA SRL; ▪ CASA MARISTAS AZTERLAN; 	
Countries: BE;LT;ES;IT;AT;DE	
Objectives: <p>SusPIRE project assimilates in its conception the sustainable energy use challenge described in the European SETPLAN and in SPIRE road map. It addresses its efforts to energy intensive industries and within this segment market to energy recovery from residual heat streams. To achieve this goal a two clearly differentiated working areas will be key aspects of this project. Technology area will include the development of materials and equipments. New Heat Transfer Fluids (HTF) and Phase Change Materials (PCM) will be the base for manufacture high efficiency heat exchangers in terms of energy capture and storage. Two Borehole Thermal Energy Storage (BTE) areas(low temperature range (30-50°C) and medium (50-80°C) will support a energy cascading concept where energy will be sequentially used and finally stored for further use or commercialized to third parties. The methodology aspects of this projects wants to establish a framework to foster the energy commercialization of surplus energy . Living areas , symbiosis with other companies in industrial parks, sports centers.. will beneficiate from cheaper energy, environmental impact reduction and social acceptance of energy intensive industrial activities. The coordination of the manufacturing and the energy recovery processes will be carried out by means of a smart methodology. A protocol definition software will deploy actions to create best practices in terms of process adjustment and operating instructions. Management concepts based on energy recovery rate as Key Process Indicator (KPI), will be integrated into the decision making mechanism of the company assuring permanent advances in this field of activity in forthcoming years.</p>	

Topic EE-19 – Projects

Topic: EE-19-2015	Acronym: BUILDINTEREST
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Improving the attractiveness of investments in energy efficiency and sustainability in buildings	
Starting date: 01.04.2016	End date: 31.03.2018
Total Cost: 1,754,635.00 €	EU max. contribution: 1,754,635.00 €
Coordinator: PNO CONSULTANTS BV	
Participants:	
<ul style="list-style-type: none"> ▪ STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND ▪ BPIFRANCE FINANCEMENT SA 	<ul style="list-style-type: none"> ▪ EUROPE UNLIMITED S.A. ▪ ASTER - SOCIETA CONSORTILE PER AZIONI ▪ DGB BV
Countries: BE;NL;FR;IT	
Objectives:	
<p>BUILDINTEREST will structurally improve the financeability and attractiveness of investments in renewable energy or energy efficiency in buildings by creating three national sustainable energy financing platforms. Investments in renewable energy and energy efficiency are currently sub-optimal, forming an important bottleneck for Europe to reach its 20-20-20 targets. Particularly in the building sector, projects require high upfront investments, have high perceived risk, have to deal with complex planning and stakeholder issues, and suffer from split incentives. Since the building sector is also one of the largest energy users in Europe and faces a major and sustained investment challenge, BUILDINTEREST focuses on addressing financial issues in investment in sustainable energy and energy efficiency measures in buildings. BUILDINTEREST will develop three national sustainable energy financing platforms: in The Netherlands (Duurzaam Gebouwd), Italy (ASTER) and France (BPIFrance). These platforms will create a structural dialogue between the building and financial sector and develop essential tools and financial instruments that will increase attractiveness of investments in sustainable energy in buildings. BUILDINTEREST will also develop a roadmap, describing the barriers in financing sustainable energy investments as well as their solutions, and presenting a practical approach to the implementation of these solutions, from financial instruments and contract arrangements to calculation tools and policy measures. The project will also facilitate the implementation of these solutions by the building and financial sector during project operation. To further increase its impact, BUILDINTEREST aims at rapid replication of the national platforms in other European countries. Among other activities, 6 large-scale (inter)national events are organized during the project. BUILDINTEREST will reduce uncertainty regarding investments in sustainable buildings, and increased investors' confidence and trust.</p>	

Topic: EE-19-2015	Acronym: ENERINVEST
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: ENERINVEST Spanish Sustainable Energy financing Platform	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,926,958.75 €	EU max. contribution: 1,926,958.75 €
Coordinator: DELOITTE ADVISORY SL	
Participants: <ul style="list-style-type: none"> ▪ NAVARRA DE SUELO Y VIVIENDA SA ▪ ASOCIACION DE AGENCIAS ESPANOLAS DE GESTION DE LA ENERGIA ▪ DIPUTACION DE GERONA ▪ DIPUTACION PROVINCIAL DE HUELVA ▪ ASOCIACION NACIONAL DE EMPRESAS DE SERVICIOS ENERGETICOS ANESE ▪ ASOCIACION ECOSERVEIS ▪ AGENCIA EXTREMENA DE LA ENERGIA ▪ FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS 	
Countries: ES	
Objectives: <p>The technical and economic viability of sustainable energy projects is of great interest to public institutions, businesses and individuals due to the associated energy savings and the additional economic and environmental benefits. The EU has articulated numerous mechanisms to encourage the mobilization of investment in terms of sustainable energy, and in Spain there are currently several of them applied to finance such projects. However, there is a set of barriers that hinders a greater development of them, standing out the lacks of:</p> <ul style="list-style-type: none"> - trust among investors in financial viability; - public and private capabilities in project structuring; and - emblematic successful cases that can be a reference model. <p>ENERINVEST addresses those issues by creating a consulting platform which will provide financial, technical and legal solutions to sustainable energy, facilitating the dialogue among the different stakeholders involved. ENERINVEST aims to become the reference Spanish platform in the field of sustainable energy projects financing, which covers the existing gap between the financial sector and the sustainable energy sector, hence, promoting a higher and more efficient investment in sustainable energy projects.</p> <p>This work is translated in:</p> <ul style="list-style-type: none"> - gathering and organizing all current information, regulation and existing financial models in Spain; - identifying and promoting successful cases of innovative financial models; - creating an e-platform with an assessment tool for preliminary market assessments; - establishing working groups with stakeholders to join forces for the promotion of financial mechanisms for the execution of sustainable energy projects; - developing communication activities of the platform to foster its visibility and disseminating the results <p>The main interested parties in ENERINVEST's activities and results are the following target groups: projects promoters; financial entities, investors and policy makers and other stakeholders in energy and financing.</p>	

Topic: EE-19-2015	Acronym: ET RISK
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: MEASURING ENERGY TRANSITION (ET) RISK FOR INVESTORS: DEVELOPING AN ENERGY TRANSITION ASSESSMENT FRAMEWORK FOR EQUITIES AND BONDS	
Starting date: 01.02.2016	End date: 31.07.2018
Total Cost: 2,198,331.25 €	EU max. contribution: 2,172,991.00 €
Coordinator: ASSOCIATION 2 INVESTING INITIATIVE	
Participants:	
<ul style="list-style-type: none"> ▪ ASSOCIATION POUR LA PROMOTION DE LA RECHERCHE SUR L'ECONOMIE DU CARBONE APREC ▪ CARBON TRACKER INITIATIVE LIMITED ▪ KEPLER CAPITAL MARKETS SA 	<ul style="list-style-type: none"> ▪ MCGRAW HILL INTERNATIONAL (U.K.) LIMITED ▪ THE CO FIRM GMBH ▪ THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD
Countries: UK;FR;DE	
Objectives:	
<p>The transition to a low-carbon economy creates financial risk and opportunities. A key barrier for investors in responding to this risk relates to the shortcomings of the current landscape of asset valuation and credit risk models in capturing this financial risk and opportunity. The objective of the project is to develop an Energy Transition (ET) risk and opportunity assessment framework. The objectives of this framework are to help investors and policy makers understand the materiality of energy transition risk and opportunity, help investors assess this materiality for bond and equity portfolios, and engage with investors & policy makers on responding to these risks in order to mobilize capital for sustainable energy investment. The activities focus on seven key industries. The core focus is on building bottom-up databases, Energy transition risk and opportunity scenarios net margin impact models. These outputs will then feed into newly developed equity valuation (developed by Kepler-Cheuvreux) and credit risk models (developed by S&P Capital IQ). The project enables investors and analysts to implement these models into their investment decision-making, either through the assessment framework or directly equity and bond indices developed in the course of the project.</p>	

Topic: EE-19-2015	Acronym: SEAF
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Standardisation and Communication of Sustainable Energy Asset Evaluation Framework	
Starting date: 01.02.2016	End date: 31.01.2018
Total Cost: 1,706,366.25 €	EU max. contribution: 1,706,366.25 €
Coordinator: JOULE ASSET EUROPE AB OY	
Participants: <ul style="list-style-type: none"> ▪ HSB ENGINEERING INSURANCE LIMITED ▪ ARISTOTELIO PANEPISTIMIO THESSALONIKIS ▪ SEA - SERVIZI ENERGIA AMBIENTE SRL ▪ The University of Manchester 	
Countries: UK;EL;IT	
Objectives: <p>The main barriers to finance of Sustainable Energy Assets (SEA) projects – namely energy efficiency, demand response, distributed renewable energy generation and electricity storage – are: 1) project valuation difficulties; 2) difficulties in project optimisation; 3) a communication gap between contractors and investors leading to a lack of trust.</p> <p>Today, protocols and tools exist for project valuation, but they are used separately, in different ways by different investors or contractors. Therefore, SEA projects are valued on a one-off basis, without any standardisation. The SEAF project will significantly lower the entry barriers to finance for small to medium projects, through combining existing tools and protocols, namely Joule Assets' market valuation tool, the risk assessment methodology from insurance company HSB and the Investor Confidence Project's energy performance protocols.</p> <p>These three service tools will be integrated into an all-in-one, easy to use, single source valuation and risk assessment framework, which aims to: 1) Facilitate and support an intensive stakeholder engagement process; 2) Provide independent valuation and optimisation for SEA projects according to up-to-date energy market data; 3) Standardise energy efficiency valuation criteria for easy comparability with other similar projects; 4) Enable initial risk assessment at much lower cost and with less administrative effort; 5) Facilitate the matchmaking between investors and contractors; 6) Lay the foundation for robust exploitation.</p> <p>In addition to its demonstration with a large network of investors and contractors, SEAF seeks to enable investments of €10-15m and primary energy savings of 18-45 GWh/a over the course of its duration. Through its unique combination of services, SEAF will specifically target small projects, which would otherwise not get financed and it will have a disproportionately large impact on job creation, as reduced energy costs have a much stronger effect on SMEs.</p>	

Topic: EE-19-2015	Acronym: SEFIPA
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Sustainable Energy Financing Plattform in Austria	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 944,000.00 €	EU max. contribution: 944,000.00 €
Coordinator: OSTERREICHISCHE GESELLSCHAFT FUR UMWELT UND TECHNIK	
Participants:	
<ul style="list-style-type: none"> ▪ ENERGY CHANGES PROJEKTENTWICKLUNG GMBH 	
Countries: AT	
Objectives:	
<p>The Sustainable Energy Financing Platform in Austria (SEFIPA) is designed as an action oriented platform to collect, develop, implement and disseminate innovative ideas to accelerate finance for sustainable energy. In contrast to the prevailing approach in Austria of subsidy based support of sustainable energy activities, SEFIPA will focus on increasing private sources of funds.</p> <p>The overall concept of SEFIPA is to bring together a selected group of experts from the relevant stakeholder institutions (public administration, financial sector, business and consumer associations, energy service providers, NGOs) to jointly develop solutions to identified barriers with strong involvement of the broader interested public. These solutions, in form of new financing products, targeted information campaigns and changes to the existing regulatory framework will result in real and additional investments in sustainable energy.</p> <p>The main elements of SEFIPA will be</p> <ul style="list-style-type: none"> • the Finance Lab, constituted of executive representatives of stakeholders groups who will work in regular sessions on the realization of solutions to the identified challenges for increasing SE investments. The outcome of the Lab will be at least 3 new financing instruments and 3 suggestions for adaptations of the regulatory framework for SE financing. • the implementation and operation of a crowd-investing platform designed to raise equity capital from a multitude of investors (the crowd) for SE projects in Austria. • the structured origination and implementation of SE investment actions utilizing the new financing instruments and regulatory changes. SEFIPA covers the whole spectrum of identification (call for investment actions, screening Lab members' portfolios, conducting roadshows etc.), evaluation and implementation of investment actions. The consortium will monitor these actions in order to be able to provide a sound evaluation of the suitability and success of the realized instruments including their impact. 	

Topic EE-20 – Projects

Topic: EE-20-2015	Acronym: EnerSHIFT
Call: H2020-EE-2015-4-PDA	Type of Action: CSA
Title: Energy Social Housing Innovative Financing Tender	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 967,687.50 €	EU max. contribution: 967,687.50 €
Coordinator: REGIONE LIGURIA	
Participants: <ul style="list-style-type: none"> ▪ SINDACATO UNITARIO NAZIONALE INQUILINI E ASSEGNATARI ▪ ARTE - AZIENDA REGIONALE TERRITORIALE PER EDILIZIA ▪ INFRASTRUTTURE RECUPERO ENERGIA AGENZIA REGIONALE LIGURE - I.R.E. SPA ▪ AZIENDA REGIONALE TERRITORIALE PER L'EDILIZIA DELLA PROVINCIA DI GENOVA - A.R.T.E. ▪ AZIENDA REGIONALE TERRITORIALE PER L'EDILIZIA DELLA PROVINCIA DI SAVONA - A.R.T.E. SAVONA ▪ A.R.T.E. LA SPEZIA 	
Countries: IT	
Objectives: <p>Regione Liguria, together with IRE (its dependent agency for energy, infrastructure and urban renovation) conceived this proposal which could allow for preparing feasibility studies with the final aim to launch a tender for investments to be made by ESCos through an Energy Performance Contract (EPC). The EPC will enable the implementation of investments without or with limited public capital funding.</p> <p>EnerSHIFT project is based on the wish of the regional government to improve the quality of social housing buildings through retrofitting for the sake of low income people and to decrease energy consumption and related emissions while in the meantime boosting the local economy.</p> <p>The main concept underpinning the project is that economic shortages and public spending review do not currently make it possible to find budget for design and for investment. One good solution is the use of innovative financial schemes such as Energy Performance Contracting for the first time in whole Liguria. Besides, the success of this financial scheme can form the basis for other such investment programs, in Liguria, in other sectors or locations.</p> <p>Important to consider is that tenants do not own their homes but pay the bills – while the buildings are owned by SHOs which do not pay the bills. Therefore, any investment programme has to combine the objectives of both players. SHOs cannot implement measures without tenants approval, on the other hand, if tenants want to spend less and live better, they depend on the SHOs. One major point of the project is indeed the combination of these two interests with the help of the tenants syndicates who will involve tenants throughout the project.</p> <p>Therefore the EnerSHIFT project has energy, social and economic aims.</p>	

Topic: EE-20-2015	Acronym: LEMON
Call: H2020-EE-2015-4-PDA	Type of Action: CSA
Title: LEMON Less Energy More OpportuNities	
Starting date: 01.02.2016	End date: 31.05.2018
Total Cost: 630,780.00 €	EU max. contribution: 630,780.00 €
Coordinator: AGENZIA PER L'ENERGIA E LO SVILUPPO SOSTENIBILE ASSOCIAZIONE	
Participants:	
<ul style="list-style-type: none"> ▪ AZIENDA CASA EMILIA ROMAGNA DELLA PROVINCIA DI REGGIO EMILIA 	<ul style="list-style-type: none"> ▪ ASTER - SOCIETA CONSORTILE PER AZIONI ▪ ACER PARMA
Countries: IT	
Objectives:	
<p>"LEMON "Less Energy More OpportuNities" focusses on energy investments in the Social Housing sector and involves 2 Housing Company of Emilia Romagna Region ACER Reggio Emilia and ACER Parma, launching 15,29 M€ of energy investments in 622 private and public social housing dwellings.</p> <p>The project will develop innovative, bankable and aggregated sustainable energy investment scheme based on the following aspects:</p> <ul style="list-style-type: none"> - LEMON will be a pilot project for the Emilia Romagna Region Social Housing Programme, creating a new financing model for energy retrofit interventions and developing a EPC model contracts that will mobilize 15,29 million Euros of investments in social housing buildings energy retrofitting, in order to reduce the buildings energy demand. LEMON will support the investments combining different financing instruments available at National and Regional level (ERDF funds, National financing, National incentive "Conto termico" and loans) and in particularly it will charge part of the investment on the rents according to the reduced energy costs for the tenants. - LEMON will develop the Energy Performance Tenancy Agreement (EPTA). The contract between the tenants and the ACERs will ensure that a portion of the investments covered by ACER Reggio Emilia and ACER Parma with a loan is charged on the rents for as long as the loan is repaid, leveraging on the savings produced by the retrofit interventions. <p>The replication of the project will be based on a wide dissemination and capacity building strategy among the social housing companies at regional and national level, and also among other sectors (City councils, Provinces, Regional, public authorities, Groups that represent e.g. Local Government Association, National public authorities, Organisations working in the field of energy efficiency, ESCos, Companies).</p> <p>The project results will be disseminate across Europe towards the EU networks Climate-Kic and Housing Europe."</p>	

Topic EE-21 – Projects

Topic: EE-21-2015	Acronym: guarantEE
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: Energy Efficiency with Performance Guarantees in Private and Public Sector	
Starting date: 01.04.2016	End date: 31.03.2019
Total Cost: 1,699,992.50 €	EU max. contribution: 1,699,992.50 €
Coordinator: BERLINER ENERGIEAGENTUR GESELLSCHAFT MIT BESCHRANKTER HAFTUNG	
Participants: <ul style="list-style-type: none"> ▪ SEM ENERGIES POSIT'IF ▪ ENERGETICKE CENTRUM BRATISLAVA ▪ TUD BUSINESS CONSULTING SRL ▪ CITY OF DUBLIN ENERGY MANAGEMENT AGENCY LIMITED ▪ GRAZER ENERGIEAGENTUR GMBH ▪ MINISTERIE VAN ECONOMISCHE ZAKEN ▪ AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE ▪ INSTITUT JOZEF STEFAN ▪ ENVIROS S.R.O. ▪ PUBLIC INVESTMENT DEVELOPMENT AGENCY ▪ INSTITUT CATALA D'ENERGIA ▪ FACTOR 4 BVBA ▪ NORSK ENOK OG ENERGI AS 	
Countries: AT;FR;SK;SI;RO;IT;NO;IE;ES;NL;BE;LT;CZ	
Objectives: <p>Energy Performance Contracting (EPC) is a proven model for modernizing mostly public buildings by ESCOs with guaranteed energy and cost savings. Nevertheless, a broad roll-out of EPC is being prevented mainly because of two unresolved issues: the split incentives dilemma and the lack of adequately flexible contract models.</p> <p>The guarantEE project will address prevailing barriers to EPC in a team of 14 experienced partners, covering large parts of Europe in a mix of advanced and emerging ESCO markets.</p> <p>Based on a concise market analysis, guarantEE will develop innovative business and financing models addressing and overcoming the split incentives dilemma in performance based ESCO projects. This will be done by adequately sharing costs and benefits between user, building owner and ESCO (triple-win approach), thus opening up new project opportunities. Furthermore, EPC contract variants will be elaborated and tested, addressing the need for enhanced flexibility (e.g. exit clauses, simplified M&V, future energy market needs, storage). The target groups are public and – especially in advanced EPC markets – private sector clients.</p> <p>The developed models will be applied in 33 pilot projects involving private and public building owners. The project will achieve 78 GWh PE and 18000 tCO₂ savings per year and will trigger investments of >11 M€.</p> <p>Particularly in emerging EPC markets, guarantEE will support market development by providing standards, an online EPC pre-check, good practice examples, EPC information and project facilitation for mainly municipal clients. Broad dissemination activities, including the European Energy Service Award, will maximise the project visibility.</p> <p>The project will address or consult at least 1000 building owners and EPC facilitators and will inform at least 2000 energy sector stakeholders on EPC.</p> <p>The guarantEE project will unlock additional EPC project opportunities, contribute to standardisation, and provide political advice and steps towards a common energy service market in Europe.</p>	

Topic: EE-21-2015	Acronym: TrustEE
Call: H2020-EE-2015-3-MarketUptake	Type of Action: CSA
Title: TrustEE – innovative market based Trust for Energy Efficiency investments in industry	
Starting date: 01.02.2016	End date: 31.01.2019
Total Cost: 1,409,995.00 €	EU max. contribution: 1,409,995.00 €
Coordinator: ARBEITSGEMEINSCHAFT - ERNEUERBARE ENERGIE - INSTITUT FUR NACHHALTIGE TECHNOLOGIEN	
Participants: <ul style="list-style-type: none"> ▪ UNIVERSIDADE DE EVORA ▪ Fraunhofer Institute Applied Information Technology ▪ ASOCIACION DE INVESTIGACION DE LA INDUSTRIA AGROALIMENTARIA. ▪ EUROPEAN COUNCIL FOR AN ENERGY EFFICIENT ECONOMY FORENING - ECEEE ▪ REENAG HOLDING GMBH 	
Countries: ES;PT;AT;DE;SE	
Objectives: <p>Industry alone accounts for one-third of all the energy used globally and for almost 40% of worldwide CO2 emissions. Heat for Industrial Processes stands for 17% of the overall energy demand and for 69% of the industrial energy demand in the EU28 countries in 2013. Whereas available EE and RE technologies could supply a significant share of heat requirements in industry.</p> <p>Even when technological or non-technological barriers are removed, investment conditions still hold has a key barrier to a further market penetration and to a due exploitation of their market potential. Besides an insufficient awareness of technological solutions or lack of appropriate financial support measures, the main barriers to Process Heat Efficiency and Sustainability (PHES) investments are related to financing conditions:</p> <ul style="list-style-type: none"> • end-user as own resources PHES but investments are regarded as having long payback; • end-user as limited own resources access to funding is difficult and limits investments. <p>Acknowledging these facts, the main objective of TrustEE is the definition and implementation of a market based financing model for PHES applications, gathering financial resources among a wide base of investors and assuring the investment capital for SME industries. Based on an Equity Trust model, TrustEE embodies an innovative approach to PHES financing, gathering the market expertise of end-users and technology providers on identifying specific projects matching objective economic viability criteria and providing them a financing tool embodying technical support and securitization measures ensuring: optimized investment conditions; reduction of risk; bypass restrictive criteria for SMEs financing conditions.</p>	

List of Calls Energy Efficiency

CALL: H2020-EE-2015-1-PPP

Deadline: 04.02.2015

Topic	Title	Number of funded projects	Total EU-contribution [€]
EE-02	Buildings design for new highly energy performing buildings	2	7,749,334.00
EE-18	New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use	3	11,576,685.50
Total		5	19,326,019.50

CALL: H2020-EE-2015-2-RIA

Deadline: 04.06.2015

Topic	Title	Number of funded projects	Total EU-contribution [€]
EE-06	Demand response in blocks of buildings	2	8,003,555.26
EE-11	New ICT-based solutions for energy efficiency	4	7,815,604.50
EE-13	Technology for district heating and cooling	2	4,237,349.50
Total		8	20,056,509.26

CALL: H2020-EE-2015-3-MarketUptake

Deadline: 04.06.2015

Topic	Title	Number of funded projects	Total EU-contribution [€]
EE-05	Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation	3	7,102,860.00
EE-07	Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures	7	11,572,648.75
EE-09	Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures	3	5,261,866.24
EE-10	Consumer engagement for sustainable energy	4	5,696,104.50
EE-14	Removing market barriers to the uptake of efficient heating and cooling solutions	2	3,413,950.00
EE-15	Ensuring effective implementation of EU product efficiency legislation	2	3,735,122.25
EE-16	Organisational innovation to increase energy efficiency in industry	4	7,276,180.00
EE-19	Improving the financeability and attractiveness of sustainable energy investments	5	8,504,951.00
EE-21	Development and market roll-out of innovative energy services and financial schemes for sustainable energy	2	3,109,987.50
Total		32	55,673,670.24

CALL: H2020-EE-2015-4-PDA

Deadline: 04.06.2015

Topic	Title	Number of funded projects	Total EU-contribution [€]
EE-20	Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects	2	1,598,467.50
Total		2	1,598,467.50

List of Abbreviations

Type of Actions

IA	Innovation Action
RIA	Research and Innovation Action
CSA	Coordination and Support Action

Topics

EE	Efficient Energy
LCE	Low Carbon Energy
SCC	Smart Cities and Communities
FCH	Fuel Cells and Hydrogen

Others

H2020	Horizon 2020
NCP	National Contact Point
PPP	Public Private Partnership
PDA	Project Development Assistance

