



SMILIES PROJECT



SMALL MEDITERRANEAN INSULAR LIGHT INDUSTRIES ENHANCEMENT AND
SUPPORT

**Potential support to the pilot projects
by public research institutions
in Greece and Cyprus
Report**

FINAL VERSION

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on behalf of





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Introduction

This report is elaborated under the framework of the Component 4 “Pilots” of the SMILIES project. The aim of this report is to provide a catalog of the public research institutions in Greece and Cyprus that can support the implementation of the pilot projects in these two countries. Additionally, it aims to provide a guide to find the appropriate research institution which can be addressed by each applicant, depending on the subject of the pilot project, in order to gain additional expertise or even to cooperate with them to implement the pilot’s idea.

This report is divided into three (3) parts:

- The first part summarizes the pilot projects which will be implemented in Greece and Cyprus.
- The second part presents the public research institutions in Greece and Cyprus, whose subject of research is relevant to the subject of pilot projects in these two countries.
- The third part presents the conjunction of the research subject of research institutions with the thematic area and/or the objective of the pilot projects. In other words, which is the appropriate research body that can support the implementation of each pilot project?

At this point it should be noted that the list of public research institutions in Greece and Cyprus, which is presented in this report, includes only the research institutions which are related to the subject of pilot projects.



The pilots

This part of the report presents the pilots projects which are implemented in Greece and Cyprus. Specifically, a short description of the pilot project, the location of the implementation and the thematic group in which they are included, under the framework of the SMILIES project, are presented.

Pilot project (1) Global management of tourism resources	
Group	Services
Location	Crete
Description	Set up of an Agro-tourism unit, with production of wine, olives, olive oil and cheese and exports of these products. Natural materials for constructions, renewable energies of energy needs. Valorisation of local cultural heritage (music)

Pilot project (2) Holidays in style	
Group	Services
Location	Crete
Description	Development of Tourist packs for social events and for Cultural Tourism in Chania. The company aims to innovate in the field of incoming tourism. To do this, it created a special section called "HOLIDAYS IN STYLE". On the first day of the operation, it will focus on the quality of service and on responding to personal needs of potential customers. The company's goal is to create strong brand recognition of high quality and diversified in the services sector.

Pilot project (3) Recycling of non-organic waste	
Group	Building & Construction
Location	Crete
Description	Set up of a Unit in Herakleion using waste for construction sector for producing new building materials. The central idea of the pilot project is to establish a system for recycling the inert waste in Crete.



Pilot project (4) Traditional food of Creta	
Group	Food
Location	Crete
Description	Promotion and commercialization through business networks in Greece and abroad of traditional Cretan foods based on traditional receipts. The objective is to set up a unit of production of products as amygdalota, for which a website name has been already reserved and to make online sales using it.

Pilot project (5) Production treatment and Commercialization of Aromatic plants (origan)	
Group	Food
Location	Crete
Description	The proposal is to use the hot climate of Southern Crete to produce aromatic plants (origan) very earlier than any other place in Greece to face the year-long demand of fresh products by industries using such plants as raw material.

Pilot project (6) Plant units set up for the production of building materials in expanded polysthrene	
Group	Building & Construction
Location	Crete, Cyprus
Description	The company has two clients, one in Lemessos (CYP) and one in Herakleion (CRE) who are already equipped to produce part of the components required to propose the innovative building system it is able to propose.

Pilot project (7) Mobile technologies for cost effective territory and assets monitoring	
Group	Environment
Location	Crete, Sicily, Cyprus
Description	Monitoring for natural resources census and preservation against calamities. Needs addressed: cost effective monitoring of the territory (especially in rural areas not easy to reach and keep under control) for natural calamities like wild fires, for historical sites census and monitoring, for natural resources and state property assets census - like roads, bridges, buildings, aqueducts, dams - and, last but not least, environment abuses alerting and monitoring.



Pilot project (8) Safe cold chain with real time temperature monitoring	
Group	Food
Location	Crete, Sicily, Cyprus
Description	Safe cold chain with real time temperature monitoring used on RfId technology. Needs addressed: two main needs: 1) real time monitoring and alerting of temperature at pallet level during chilled and frozen storage and transportation. 2) freshness indicator at single item or box level. Project Objectives: ActValue developed very innovative devices based on RfId technology - both active and passive - to satisfy the needs described above. Such devices have been tested on the field, but are still at prototype level therefore are not fully engineered yet to be market products. ActValue is willing to find a business case for such devices, an actor within the cold chain world - either food, pharmaceutical, cosmetics, etc - interested in this topic and looking for a solution and available in investing on it.

Pilot project (9) PhotoVoltaic Greenhouses	
Group	Energy
Location	Crete, Sicily, Cyprus
Description	Exploit the installation of photovoltaic greenhouses as a way to promote and fertilize the creation of new agricultural businesses. So far, photovoltaic greenhouses have been mostly thought of as a support to already operating agricultural companies, i.e. as a way to increase the business income through energy coproduction and sale to the network, while also improving the climatic conditions of the crop inside an existing greenhouse. This project aims to totally reverse the angle and to exploit the installation of photovoltaic greenhouses as a way to promote and fertilize the creation of new agricultural businesses in a rural Mediterranean area.

Pilot project (10) Database of investment opportunities for Micro Businesses	
Group	Net
Location	Crete, Cyprus, Aegean
Description	Setting up a database of industrial real estate property that is available for sale and/or rent, particularly outside the dedicated areas for business establishment.



Pilot project (11) Transformation of ICE (internal combustion engines) cars to EV (electric vehicles) cars	
Group	Transport
Location	Crete, Cyprus, Aegean
Description	Transformation of ICE (internal combustion engines) cars to EV (electric vehicles) cars. As the Community directives 2009/46/EU but also 2009/33/EU, stipulate that from the end of 2010 the member states will have to favour the cars of electric or of hybrid technology but also that the member states will have to explicitly allow the upgrade of the existing, in circulation, cars to such type (electric or hybrid) cars, our business idea is to change the regulars cars who have internal combustion engines with petrol or diesel to electric cars.

Pilot project (12) Local capacity building for foreign investments intermediation	
Group	Net
Location	Aegean, Cyprus
Description	Developing a new professional profile - to be tested in the context of some Mediterranean islands - who candidates to play this intermediary role between potential investors and the local development agencies active in territorial marketing. Our project idea consists of developing a new professional profile – to be tested in the context of some Mediterranean islands – who candidates to play this intermediary role between potential investors and the local development agencies active in territorial marketing.

Pilot project (13) Photovoltaic Thermal Plant Construction	
Group	Energy
Location	Crete. Sicily, Cyprus, Aegean
Description	Approaching the competent Ministry to build up such a plant in a suitable location, no less than 10 hectares wide, preferably in front of the sea. Mediterranean islands are obviously in the best position to accommodate the installation of next generation Photovoltaic Thermal plants converting solar radiation into thermal and electric energy, and with the possibility of water production from marine water desalination (reverse osmosis) or directly from air humidity. Photovoltaic Thermal plants concentrate the sunlight (normally by a set of mirrors) onto a nucleus made up of low resistance material in order to heat it up, then use solar cells to convert the electromagnetic (photonic) radiation into electricity, and finally a thermal collector to capture the remaining heat, thereby cooling the solar cells and thus improving their efficiency by lowering resistance.



Pilot project (14) THE PENTECONTER PROJECT	
Group	Transport
Location	Sicily, Cyprus, Aegean
Description	Build and exploit hi-tech, sustainable and innovative sailing yachts based on ancient ships design. The Project is about the construction of a flagship that will be inspired by the Penteconter (a unique ship used in the Greek antiquity with 25 rowers in each side and a mainsail) and build with new eco-friendly materials and powered with the latest technologies (innovating solar panels, new type of electric engine using solar energy and manpower, low consumption electronic equipment, etc).

Pilot project (15) An online marketplace of yachting services across Mediterranean ports	
Group	Transport
Location	Crete, Sicily, Cyprus, Aegean
Description	Provide a structured online collection of services and suppliers in the various Mediterranean ports, joined with a search engine and booking system. Though it may seem odd, all the services for pleasure yachters provided in the Mediterranean ports (from refuelling to maintenance, from food delivery to temporary anchorage, from repair to refitting) are neither collected nor organised in any unified catalogue or handbook made available onboard and/or at the port of stopover. Our project idea aims to provide a structured online collection of services and suppliers in the various Mediterranean ports, joined with a search engine and booking system.

Pilot project (16) Papitsis: Portal of the Aegean Area	
Group	Portals
Location	Aegean
Description	Set up a Portal of the Aegean Area. The portal will offer insight of the islands, business information and sales of services, products and activities comprising three areas: tourist information, promotion and presentation of businesses in the Aegean, e-shop for local products.



Pilot project (17) Promotion of a Handcrafted Tourist boat with a glass floor for daily tours (GLASSBOTTOM)	
Group	Transport
Location	Sicily, Aegean
Description	A privately owned boat, which is handcrafted with a glass floor is being used for tours around the island of Mykonos and in the ancient of Delos. The owner is facing substantial problems with the promotion of the services in the local community and has difficulties to make partnerships with agencies and hotels, locally and abroad.

Pilot project (18) Grypario Cultural Center: create a workshop in Mykonos where recyclable glass bottles will be processed by artists	
Group	EcoDesign
Location	Aegean
Description	Key idea: create a workshop which will use of waste materials (especially recyclable glass bottles) for the creation of jewellery and other works of art. Other (complementary) ideas: use as the fuel of the laboratory either the sun and wind or bio diesel fuel derived from food, setting up a showroom presenting the creations of the artists.

Pilot project (19) Manalis traditional winery: Enlargement of the distribution network, improvement of packaging and labeling	
Group	Retail
Location	Aegean
Description	The project aims to improve the labeling and packaging of our wine, in order to make it more attractive to the consumers. Our key competitive advantage is the use of photovoltaic technology which provides the energy required for making the winery work autonomously and support the traditional way of production.

Pilot project (20) Monolithos Energy: Optimizing the performance of Photovoltaic Parks by using movable panels with two spindle trackers	
Group	Energy
Location	Aegean
Description	The idea is to install a mechanism which will allow solar panels to rotate to a second axis resulting in better tracking of the sun during the day and the different seasons. This could increase the efficiency of photovoltaic panels in the Cyclades (up to 40%), starting from Naxos.



Pilot project (21)	Mumu: Export Clothing & Accessories which are friendly to the environment
Group	Retail
Location	Aegean
Description	Mumu currently produces Clothing & Accessories which are friendly to the environment, sourcing of inputs from abroad, designing and producing the clothes in limited quantities. The main objectives of the pilot is the extension of wholesale abroad (clothing produced by the owner) and the improvement of the website (e-shop).

Pilot project (22)	TASTE AND CULTURE-Naxos-Filoxenia": Creation of a "Standard School of Gastronomy"; promote, improve packaging and label gastronomic ingredients and products proposed by local producers.
Group	Retail
Location	Cyprus, Aegean
Description	Create a "Standard School of Gastronomy," for teaching professionals the basic principles of restaurant management and traditional cooking and providing certification. So far recipes from the traditional Naxian cuisine have been collected. Certify restaurants following these principles. Promote new gastronomic products from the local producers and help them improve their packaging.

Pilot project (23)	Yajam (shop selling music Hardware and Software): development and promotion of the repair of music instruments
Group	Places
Location	Aegean
Description	Development and promotion of the repair of instruments. There is a need for research on other services abroad (repair instruments) to investigate the necessary equipment and the investment to be estimated, so as to use this material for any other funding program once the financing of the Employment Service expires. Short term, there is need to display and promote the service to other islands and the rest of Greece



Pilot project (24)	Talasli (Glass designer with a small showroom in Syros): Glass processing with potential to be applied to premises
Group	EcoDesign
Location	Aegean
Description	Setting up an online presentation to attract customers by highlighting the visual details / features of their products. Improvement / development of existing e-shop. Transfer glass objects with absolute protection, and low cost (transport problem).

Pilot project (25)	Lalari" (Prints graphics on shirts): extension of sales in the Cycladic islands and in Greece and abroad (E-commerce)
Group	EcoDesign
Location	Aegean
Description	Lalari prints graphics on shirts using of Inkjet Printers, which contributes to faster customer service and the print lasts longer. This technique is not widespread in Cyclades, therefore the competition is relatively low. Lalari is interested in an extension of sales in the Cycladic islands (promotion of the printing service) and to use e-commerce to access the rest of Greece and abroad.

Pilot project (26)	PIVICCI
Group	EcoDesign
Location	Aegean, Sicily
Description	Creative products using recycled materials. Pivicci 'is the brainchild of two young architects from Palermo, environmentally conscious and willing to promote sustainable development capable of stimulating local economic growth based on the revaluation of craftsmanship applied to the use of recyclable materials, a communicative approach to eco -sustainable and to avoid waste.

Pilot project (27)	EcoMove
Group	Transport
Location	Sicily, Aegean
Description	Small Electric Car 50 ccc : Moving respecting the nature, with ECO transportation: electric city car (capacity 50),to rent on the small islands of the Mediterranean, the user of the service will use the prepaid cards for the rental of means of transport. This service will be proposed to all the islands included in Smilies project.



Pilot project (28) BPOWER	
Group	Energy
Location	Crete, Sicily, Cyprus, Aegean
Description	Implementation of Small units for the production of energy out of vegetal bio-mass and urban waste through Pyrolise. The idea of the pilot project is to solve the problems of small communities in relation to the needs of low-cost electricity, thermal energy but also the possibility of using municipal waste without transporting them to other sites or vehicles in landfill pollutants.

Pilot project (29) ECOPACKAGINGPROJECT	
Group	Food
Location	Crete, Sicily, Cyprus, Aegean
Description	Design and distribution of food packaging, which respects the principles of environmental sustainability in the use of materials and that values typical Sicilian products. The business idea is the creation of a small company, devoted to the design and distribution of food packaging, which respects the principles of environmentally sustainable use of typical Sicilian materials and products.

Pilot project (30) Viral pollution detection in surface water using a Real Time PCR for the detection of adenovirus as a quality marker	
Group	Environment
Location	Sicily, Cyprus
Description	This project aims to conduct a study for the subsequent production and marketing of diagnostic kits based on Real Time Molecular biology methods for the determination of viruses, bacteria and protozoa in coastal waters, lakes, rivers and lagoons in order to verify the possible contaminants in areas of food (Fishing and / or fish farming) and natural parks or protected areas.



Pilot project (31)	Transfer and application of innovative processes for the valorization of animal by-products of the olive oil sector
Group	Food
Location	Crete
Description	The adoption of intensive farming systems, where the conditions exist for their application, can afford to bring back a positive balance between costs and revenues of Greek olives, in fact, from a purely economic point of view that the Biomass been traditionally used and to whom they are addressed to the efforts of farmers (the oil) is only a fraction of the total production of an olive grove

Pilot project (32)	Forest and maquis excess biomass for energy and organic agriculture-CY1-077
Group	Environment
Location	Sicily, Cyprus
Description	Design and test an exploitation process of forest and maquis biomass (including cleanings for wood production or fire protection) for supplying energy through biogas and organic amendment for soils, especially soil improvers for water retention that can be supplied by maquis ramial cheeped wood.



Research institutions in Greece

Athena Research and Innovation Center in Information, Communication and Knowledge Technologies

[Αθηνά - Ερευνητικό Κέντρο Καινοτομίας στις Τεχνολογίες της Πληροφορίας, των Επικοινωνιών και της Γνώσης]

The Athena Research and Innovation Center in Information, Communication and Knowledge Technologies was founded in 2003 comprising of three previously existing and two new institutes. It operates under the auspices of the Ministry of Education, Life-long Learning and Religious Affairs. It is based in Athens, with its Institutes located in Athens, Patras and Xanthi.

The Athena Research and Innovation Center aims include the following:

- Promotion of innovative information, communication and knowledge technologies in the industrial and services sectors
- Development of scientific and technological research in the sectors of information technology, knowledge, communication and automating production processes and the implementation and exploitation of results aiming at the production of laboratory prototypes, products and services
- Support of development activities in the above sectors and in their applications
- Life-long learning and training in the respective sectors
- Management of funding programmes aiming at supporting businesses that act in its sector, promotion of state research and technology policies

For the achievement of these goals the Athena RIC:

- Develops innovative approaches for Information and Communication technologies (ICT) in the form of laboratory and industrial prototypes and cooperates with companies for the commercial exploitation of the prototypes



- Customizes technologies for the needs of companies as well as for public services; it observes and studies the ICT developments and penetration into the private and public sector
- Suggests solutions, which combine various ICTs and lead to new approaches and services for the benefit of companies, organizations and other users
- Specifies the conditions for the development of products and services with ICTs by creating the infrastructure, the hardware, the software and the information content in electronic format etc
- Specializes and trains scientists and technicians in the aforementioned fields by organising and funding research projects, postgraduate seminars, publications, seminars and conference
- Provides special technical services, undertakes technical and economical studies, feasibility studies in the aforementioned areas, so that commercial exploitation of the results is ensured
- Cooperates under various frameworks with Universities and Technical Universities, research institutes and companies or participates in Scientific Committees, consortia etc. It is also eligible to found or to co-found companies which share the same goals as “Athena”.

Contact details**Athena Research and Innovation Center in Information, Communication and Knowledge Technologies**

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Institute for Research on Networking Technologies

[Ινστιτούτο δικτυακής έρευνας και τεχνολογίας]

The Institute for Research on Networking Technologies IRNET:

- Conducts research in the fields of electronic data networks as well as network services and applications
- Participates in experimental research programs for the future internet and its innovative interactive multimedia services.
- Develops prototype software applications using distributed computing and storage over broadband networks
- Collaborates with the Greek Research and Technology Network (GRNET) contributing to its continuous development and upgrade by transferring results from research, implementing pilot projects, and conducting laboratory tests of new technologies and innovative services
- Participates in the development and testing of services that exploit new features of the state-of-the-art GRNET4 hybrid network, which provides switching circuits for high-capacity, e-science applications along with its typical Internet service provision

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Industrial System Institution

[Ινστιτούτο βιομηχανικών συστημάτων]

The main aims of ISI are the active participation and substantial contribution at high-technology sectors, which relate to integrated industrial systems, with the objective of increasing the competitiveness of the Greek industry, through application of state-of-the-art technologies.



Among the general aims of ISI are implementation of applied and technological research, development of methodologies, products and services, relevant to scientific and technological sectors of particular interest, such as information and communication systems for production processes, modeling and automation of industrial systems, contemporary methods and production technologies, management / design of production systems, electronic systems, intelligent microsystems, machine vision, and information technology for production processes.

The above general aims are fulfilled through the following activities:

- Research and Development of high-technology products, as well as services, in high-tech sectors of ISI interest, either autonomously or jointly, with high-tech industries and enterprises
- Support of Greek industries, in order to adopt leading-edge technologies, and to obtain a competitive advantage
- Prototyping and validation of products and services
- Development of high - added - value interventions and innovations, custom made for the needs of the industry
- Support of high-tech firms, related to design and development of high - added - value competitive products
- Cooperation with technological and manufacturing partners in the area and in the country, aiming at better linking of research and production and better exploitation of research results
- Internationalization of activities, particularly in relation to EU countries, through competitive programmes and direct contracts from industry
- Studies and funded research and technology programmes in the areas of ISI interest
- Elaboration of research programmes and market surveys, aiming at commercial exploitation of research results
- Participation at large development projects of national scope, in cooperation with public and private organizations



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Centre for Research and Technology Hellas

[Εθνικό Κέντρο Έρευνας και Τεχνολογικής Ανάπτυξης]

The Centre for Research and Technology Hellas (CE.R.T.H.), the largest research centre in Northern Greece, was founded in March 2000. CERTH is a non-profit organization that directly reports to the General Secretariat for Research and Technology (GSRT), of the Greek Ministry of Development.

The mission of CERTH is to carry out fundamental and applied research with emphasis on development of novel products and services of industrial, economic and social importance in the following fields:

- Chemical and Biochemical Processes and Advanced Functional Materials
- Informatics and Telecommunications
- Land, Sea and Air Transportation
- Agrobiotechnology and Food Engineering
- Environmental Friendly Technologies for Solid Fuels and Alternative Energy Sources and
- Biomedical Informatics, Biomedical Engineering, Biomolecular Medicine and Pharmacogenetics

Today, six Research Institutes operate at CERTH:

- Chemical Process Engineering Research Institute - CPERI
- Informatics and Telematics Institute -ITI
- Hellenic Institute of Transport - HIT



- Institute of Agrobiotechnology - INA
- Institute for Solid Fuels Technology & Applications - ISFTA
- Institute of Biomedical & Biomolecular Research - IBBR [newly founded]

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Centre for Research and Technology Hellas

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Institute of Agrobiotechnology - INA

[Ινστιτούτο Αγροβιοτεχνολογίας]

The Institute of Agrobiotechnology –INA was established in 2000 as part of the Centre for Research and Technology – CERTH.

INA's main **activities** are:

- the support of the basic and applied research in the sector of genetics, genomics and biotechnology
- the implementation of research achievements and the exploitation of new technologies for the development of new products and services
- the provision of consultation services, support and reinforcement of the productive backbone of our country aiming at economic and social growth based on sustainability

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Hellenic Institute of Transport

[Ινστιτούτο Μεταφορών]

The Hellenic Institute of Transport (HIT) was established in 2000 as part of the Centre for Research & Technology Hellas -CERTH.

Priority research areas of HIT include:

- Specialized research in the field of Transport
- Scientific support and documentation to decision makers
- Standardization work
- Training and dissemination actions in the field of Transport
- Representation of Greece in international Transport research fora

The principal research areas of HIT are:

- Advanced Driver Assistance Systems (ADAS)
- Driver - Vehicle and Vehicle-Vehicle communication
- Driver behaviour and driving capability assessment
- Aged and vulnerable drivers
- Drivers and driving instructor training with multimedia tools and driving simulators
- Road safety issues - Awareness campaigns
- "Clean" vehicle technologies
- "Infomobility" services
- Transport planning at National and Regional level - "Transport Demand" forecasting
- Transport systems management (road, rail, maritime)
- Freight Transport and Logistics
- Infrastructure management and development (land, maritime, air)
- Transport data bases
- ICT in Transport applications
- Traffic Management and Information in real time



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Informatics & Telematics Institute

[Ινστιτούτο Πληροφορικής και Τηλεματικής]

The Informatics & Telematics Institute (ITI) was founded in 1998 as a non-profit organisation under the auspices of the General Secretariat for Research and Technology of Greece, with its head office located in Thessaloniki, Greece.

Since 2000, ITI is a founding member of the Centre for Research and Technology Hellas (CERTH). ITI's mission is the scientific and technological research in the fields of Informatics, Telematics and Telecommunications and the application, promotion and exploitation of research results in collaboration with the National and European industry, the International academic and scientific community and both private and public Sector.

ITI is highly active in research, both basic and industry-oriented, as well as in technology transfer actions.

- Image and Signal Processing
- Computer & Cognitive Vision
- Pattern Recognition and Machine Learning
- Human Computer Interaction
- Virtual and Augmented Reality Artificial Intelligence
- Security and Surveillance
- Biomedical Applications
- Environment, Geoscience and Remote Sensing
- Communications and Networking



- Multimedia, Database and Information Systems
- Social Media Analysis
- e-Government
- Cultural and Educational Technology
- Integrated Commercial Solutions

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Institute for Solid Fuels Technology & Applications

[Ινστιτούτο Τεχνολογίας & Εφαρμογών Στερεών Καυσίμων]

ISFTA is the main Greek organization of research and technological development in the field of improved and integrated exploitation of solid fuels and their by-products. ISFTA was established in 1987 as “Centre for Solid Fuels Technology and Applications” and was incorporated into CERTH in 2002 as a Research Institute. Among its main objectives are:

- Improved lignite mining processes
- Implementation of “Clean” Coal Technologies (CCTs) and combined combustion of lignite and other solid fuels
- Technological infrastructure improvement of the Greek power sector
- Promotion of cogeneration and decentralized generation technologies

ISFTA successfully implements EC and National projects concerning:

- “Clean” coal technologies
- Biomass and/or waste co-combustion technologies
- Innovative environmental management techniques (emissions control technologies, land reclamation)
- Optimisation of coal deposit exploitation for power production



- Coal mining processes optimization
- Promotion of utilising coal combustion by-products
- Investigation of other than electricity generation use of coal that is economically viable
- Improved management of water resources in the vicinity of coal mines
- Promotion of cogeneration and decentralised generation technologies
- Promotion of alternative fuels.
- CO2 sequestration technologies
- Hydrogen production and utilisation – Fuel cells
- Tri-generation units
- Alternative fuels and new production technologie

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Centre for Renewable Energy Sources and Saving (CRES)

[Κέντρο Ανανεώσιμων Πηγών Ενέργειας]

The Centre for Renewable Energy Sources and Saving (CRES) is the Greek organization for Renewable Energy Sources (RES), Rational Use of Energy (RUE) and Energy Saving (ES). CRES has been appointed as the national co-ordination centre in its areas of activity (Law 2244/94 and Law 2702/99).

CRES was founded in September 1987 by Presidential Decree 375/87. It is a public entity, supervised by the Ministry of Development, General Secretariat of Research and Technology, and has financial and administrative independence.

Its main goal is the research and promotion of RES/RUE/ES applications at a national and international level, as well as the support of related activities taking into consideration the principles of sustainable development.



The Centre is managed by a seven-member Board of Directors, which includes representatives from the General Secretariat of Research and Technology/Ministry of Development, the PPC (Public Power Corporation) and the Association of Greek Industries.

CRES has a scientific staff of more than 120 highly experienced and specialized scientists, and engineers. The organizational structure of CRES is made up of the following basic units:

- Division of Renewable Energy Sources
- Division of Energy Efficiency
- Division of Energy Policy and planning
- Division of Development Programmes
- Division of Financial and Administrative Services
- Furthermore, there are two separate offices
- Quality Assurance Office
- Legal Services

Since 1992, CRES is located on its wholly owned premises at 19th km Marathonos Ave, Pikermi, Attiki.

In addition to over 2000 square meters of main office space, there are also experimental outdoor installations, specialized laboratories for energy technologies, a mechanical shop, conference rooms, a library and maintains a strong computing infrastructure. CRES has installed a demonstration wind park in the area of Agia Marina in Lavrio. The Wind Park is connected to the Public Power Corporation distribution grid and the electricity produced will be fed into. When it is fully developed, the park will eventually have 3MW installed power and will produce 7,6 kWh of electricity.

CRES operates in two main fields of activity:

- As a Research and Technological Centre for RES/RUE/ES, by developing applied research for the new energy technologies and by technically supporting the market for the penetration and the implementation of these technologies.
- As the National Energy Centre, working on energy planning and policy for RES and ES and developing the necessary infrastructure to support the implementation of RES&ES investment projects



CRES has a dynamic presence both in Greece and internationally, with innovative research results and a large number of finished contracts for the Greek Government, the European Commission and Governments of non-European countries, concerning the planning, evaluation and realization of energy investment projects.

In the framework of its mission, CRES:

- is the official consultant of the Greek government on matters of RES/RUE/ES in national policy, strategy and planning;
- carries out applied research and develops innovative technologies which are both technically/economically viable and environment-friendly;
- organises, supervises and carries out demonstration and pilot projects, to promote the above technologies;
- implements commercial RES/RUE/ES applications in private sector energy projects, local authorities, professional associations, etc.;
- provides technical services and advice, in the form of specialized know-how and information, to third parties;
- disseminates technologies in its areas of expertise and provides reliable information and support to interested organizations and investors;
- organizes and/or participates in technical and scientific seminars, educational programmes, specialized training courses, meetings, etc.



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Centre for Research and Technology – Thessaly (CE.RE.TE.TH)

[Κέντρο Έρευνας Τεχνολογίας & Ανάπτυξης Θεσσαλίας]

The Centre for Research and Technology – Thessaly (CE.RE.TE.TH) is a legal, non-profit entity organized under the auspices of the General Secretariat for Research and Technology (GSRT), of the Greek Ministry of Development. CERETETH was established in January 2006.

The Center’s main mission is to conduct basic, applied, and technological research that leads to new products and services with industrial, economic and social impact.

CERETETH’s organization includes the Central Administration (CA) and four Institutes:

- The Mechatronics Institute (IMTRONICS)
- The Institute of Technology and Management of Agricultural Ecosystems (ITEMA)
- The Institute of Biomedical Research & Technology (BIOMED)
- The Institute of Human Performance & Rehabilitation (PerfoTech)

The Central Administration (CA) is located in the city of Volos in the Technology Park of Thessaly and is responsible for the administrative operation of the Center and the four Institutes that are located at the four prefectures of Thessaly.

The centre is expected to have the following effects

- It will strengthen industrial growth of region and the business dexterity through existing companies and the creation of new ones that will be based on “knowledge economy”.



- It will create an institution that will provide services and transfer the research and technological achievements of the Center to industry and will help the establishment of specialized spin-off companies in areas such as agromaterials, food and drinks, and biofuels (biodiesel and bioethanol).
- It will help the primary agricultural production and direct its evolution in a way compatible with the European Union guidelines.
- It will help the University of Thessaly (UTH) improve its infrastructure, it will employ the scientists in the Region and provide an extra reason for them to stay in Thessaly, and will attract other scientists in the area.
- It will create the necessary mechanisms for the transfer of the knowledge created in the Institutes, and will help the development of UTH, as the Center will be “open” to all scientists that work in the areas covered by the Institutes, especially those of UTH.
- It will provide the necessary mechanisms that will allow for the submission of proposals for large scale projects funded by the State or private companies, which proposals cannot be realized within the existing framework of the Greek Universities.
- It will participate in large scale research activities with flexibility and the appropriate means of technology transfer, such as the “Technology Park of Thessaly”.
- It will support research and services related to problems of the Region of Thessaly.
- It will finance the establishment of a research infrastructure that can be used by UTH, the local industries and agriculture, and the Region of Thessaly in general.

The scientific research, the development of technology, and innovation are at the center of the “knowledge economy”, which is the basic factor for the increase of competitiveness and employment. For this reason, the European Union (EU) set a goal to help the development of European research and double the corresponding budget, through the ERA program (European Re-search Area, COM (2004) 353

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Institute of Technology and Management of Agricultural Ecosystems

[Ινστιτούτο Τεχνολογίας και Διαχείρισης Αγροοικοσυστημάτων]

The Institute of Technology and Management of Agricultural Ecosystems (ITEMA) is responsible for the promotion of research and services in the areas of sustainable agricultural production, rural environment management and timber technology. In parallel it acts as a coordinator in relevant projects and clusters, affairing SMEs of this specific sector, in the area of Thessaly, Central Greece. It is organized in an administration unit located in the city of Karditsa, and six departments located in the cities of Karditsa and Volos. The Karditsa departments of ITEMA study drug discovery of development, animal husbandry including nutrition and well-being, animal products-production techniques and food traceability and timber technology. The Volos departments of ITEMA address research issues related to integrated and organic production of agricultural products, water and land resources, information and computer technologies in agriculture, agricultural constructions and buildings (greenhouses, livestock buildings), safety management and certification, biomass and biofuel production, and food hygiene.



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National Agricultural Research Foundation (NAGREF)

[Εθνικό Ίδρυμα Αγροτικής Έρευνας]

The National Agricultural Research Foundation (NAGREF) is the national body responsible for agricultural research and technology in Greece, functioning as a Legal Private Entity sponsored by the Ministry of Agriculture. It was established in 1989 under the Decree 1845/1989 entitled "Development and Exploitation of Agricultural Research and Technology".

The National Agricultural Research Foundation (NAGREF) includes a specialized scientific staff of significant research capacity with modern laboratory and field infrastructure at their disposal. NAGREF supports and coordinates initiatives for development suggested by the Ministry of Agriculture, the agricultural cooperatives, product distributors, producers' groups etc. New scientific knowledge and technical innovations are directed towards creating a dynamic and competitive agriculture which is protective of the environment and capable of providing excellent and inexpensive nutrition for the people.

NAGREF strives for constant improvement in competitiveness of Hellenic agricultural products in the international market. Moreover, it works to symmetrically upgrade the quality of life in the Greek countryside, with the aim of reversing migration and preventing the degradation of our unique environment.

NAGREF is also in charge of research for technological improvement and development in agricultural, forest, and fish production, it is also concerned with topics of veterinary,



management of marine resources, soil science, land reclamation, processing and preservation of agricultural products, as well as agricultural economy and sociology.

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Research institution in Cyprus

Centre for the Advancement of Research and Development in Educational Technology

CARDET (Centre for the Advancement of Research and Development in Educational Technology) is a non-profit research and development organization (NGO) based in Cyprus with partners around the world (Reg. No. HE153022). CARDET's mission is to inspire next generation education, and to promote research, innovation and development through evidence-based practices, cutting-edge research, and empowered people

The services and core expertise of the CARDET include the following:

- Research and Evaluation
- Instructional Design
- e-learning Development and Evaluation
- Games and Mobile Learning
- Strategic Planning, Organizational Assessment & Capacity Building
- Civil Society & Development Education
- Foresight and Innovation
- Professional Development
- Inclusive Education and the Use of ICT in Special Education
- Curriculum Development
- Social Justice and Reconciliation Pedagogies

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Energy, Environment and Water Research Center (EEWRC)

The Energy, Environment and Water Research Center (EEWRC) is the first Research Center of the Cyprus Institute (Cyl) that became operational in December 2007. In accordance with the charter of the Institute, the EEWRC is rapidly becoming an important research resource for Cyprus, the Eastern Mediterranean, the Middle East, and North Africa and as a gateway between the European Union and the region. The EEWRC addresses science, technology, economic and policy issues related to major challenges in the fields of energy, environment, climate and water for the Eastern Mediterranean. The Cyl has partnered with the Massachusetts Institute of Technology (MIT) and the Cyprus Research Promotion Foundation (RPF).

The scientific issues on EEWRC's research agenda relate to the basic mission of the Center and to its four divisions, namely:

- Energy and renewable energy sources;
- Environment and climate change;
- Water and renewable natural resources;
- Economy and policies.

The research agenda of the Center revolves around the following themes:

- Integrated (climate) impact assessments;
- Environmental integrity and advanced environmental monitoring;
- Solar power and technologies for the co-generation of electricity and desalinated seawater;
- Research into the physical basis for improved solar cell efficiencies and fabrication technologies;
- Energy- and water-use efficiency;
- Environment and climate change;
- Sustainable built-environment;
- Holistic water management.



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Support of the research institutions to the pilot projects

The following table presents the pilots project which can be supported by the research institutions in Greece and Cyprus

Pilot Project	Research Institute
Global management of tourism resources	-
HOLIDAYS IN STYLE	-
Recycling of non-organic waste	-
Traditional food of Creta	-
Production treatment and Commercialisation of Aromatic plants (origan)	National Agricultural Research Foundation
Plant units set up for the production of building materials in expanded polyesthirene	-
Mobile technologies for cost effective territory and assets monitoring	<ul style="list-style-type: none"> • Institute for Research on Networking Technologies • Centre for Research and Technology Hellas • Informatics & Telematics Institute
PhotoVoltaic Greenhouses	<ul style="list-style-type: none"> • Industrial System Institution • Centre for Research and Technology Hellas • Centre for Renewable Energy Sources and Saving (CRES)
Database of investment opportunities for Micro Businesses	<ul style="list-style-type: none"> • Institute for Research on Networking Technologies • Informatics & Telematics Institute
Transformation of ICE (internal combustion engines) cars to EV (electric vehicles) cars	<ul style="list-style-type: none"> • Industrial System Institution • Centre for Research and Technology Hellas • Hellenic Institute of Transport • Centre for Renewable Energy Sources and Saving (CRES)
Local capacity building for foreign investments intermediation	-
Photovoltaic Thermal Plant Construction	<ul style="list-style-type: none"> • Industrial System Institution



	<ul style="list-style-type: none"> Centre for Renewable Energy Sources and Saving (CRES)
THE PENTECONTER PROJECT	-
An online marketplace of yachting services across Mediterranean ports	<ul style="list-style-type: none"> Institute for Research on Networking Technologies IME tou EKETA Centre for Research and Technology Hellas
Papitsis: Portal of the Aegean Area	-
Promotion of a Handcrafted Tourist boat with a glass floor for daily tours (GLASSBOTTOM)	-
Grypario Cultural Center: create a workshop in Mykonos where recyclable glass bottles will be processed by artists	-
Manalis traditional winery: Enlargement of the distribution network, improvement of packaging and labeling.	-
Monolithos Energy: Optimizing the performance of Photovoltaic Parks by using movable panels with two spindle trackers	<ul style="list-style-type: none"> Industrial System Institution Centre for Research and Technology Hellas Centre for Renewable Energy Sources and Saving (CRES)
Mumu: Export Clothing & Accessories which are friendly to the environment	-
TASTE AND CULTURE-Naxos-Filoxenia": Creation of a "Standard School of Gastronomy"; promote, improve packaging and label gastronomic ingredients and products proposed by local producers.	-
Yajam (shop selling music Hardware and Software): development and promotion of the repair of music instruments	-
Talasli (Glass designer with a small showroom in Syros): Glass processing with potential to be applied to premises	-
Lalari" (Prints graphics on shirts): extension of sales in the Cycladic islands and in Greece and abroad (E-commerce)	-
PIVICCI	-
EcoMove	-
BPOWER	Institute of Technology and Management of Agricultural Ecosystems
ECOPACKAGINGPROJECT-S13-050	



Viral pollution detection in surface water using a Real Time PCR for the detection of adenovirus as a quality marker	<ul style="list-style-type: none">• Energy, Environment and Water Research Center (EEWRC)• Centre for Renewable Energy Sources and Saving (CRES)
Transfer and application of innovative processes for the valorization of animal by-products of the olive oil sector	-
Forest and maquis excess biomass for energy and organic agriculture	-
Electronic guidance for eco-tourist (E-WALKERS)	<ul style="list-style-type: none">• Institute for Research on Networking Technologies• Informatics & Telematics Institute



Conclusions

As noticed from the above sections of this report, there is a sufficient number of public research institutes in Greece and Cyprus, which produce research in sectors that pilot projects are activated and can provide the appropriate expertise to the applicant to successfully implement the pilot's idea.

However, in many cases the activities which will be developed during the implementation phase of the pilot projects are not directly related to research activities and for this reason, the above mentioned public research institutes will not be possible requested by the applicants to support the implementation of the pilot projects in Greece and Cyprus. Furthermore, it should not be disregarded the fact that there are private sectoral research institutes that can support the implementation of pilot projects.

Finally, it should be noted that in the current programming period 2007-2013 there are specific co-financed programs, which aim at improving competitiveness and extroversion of enterprises by strengthening the connection of research and production, as well as networking and cooperation with agencies/public bodies/research institutions/universities from European and other countries. Through these programmes those of the pilots who shall have a successful implementation will be able to have further support.