

Catalogue of Technology Profiles



**Sector:
Energy**

In this catalogue we have gathered technology profiles coming from Italian companies, research institutes, universities of Lazio region, which are looking for the development of partnerships with European companies or research departments.

If you are interested in any of these profiles, please send an e-mail to your local EEN-Partner, you will receive the requested information as soon as possible.

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Technology Requests

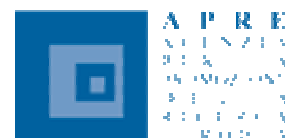
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Abstracts

Title

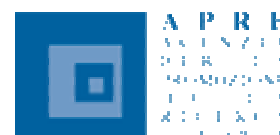
AC e DC Electric Generator for mobile devices based on renewable sources of energy

Abstract

An Italian SME, working in the Conservation of Cultural Heritage field is looking for two kinds of electric generator fuelled by renewable sources of energy: one is a power supply (that is AC generator) for mobile devices (max size 10x8x25 cm, preferably less) and the other is an AC generator for portable (but non mobile) devices (without constraint on the size). All these devices have to be used for the restauration and the monitoring of the historical and cultural heritage.

Type of Cooperation

The partners must supply this firm with its generators, and eventually customize them to feet with particular requirements, giving technical assistance after the sale The partner sought can be a SME or an industry that designs, produces and sells electric generator.





Title

Radiofrequency card hardening and manufacturing

Abstract

An Italian SME, working in the Conservation of Cultural Heritage field, is designing a monitoring system. It is finding for the hardening of a high frequency card already designed.

The radiofrequency card that will be hardened is contained into an IP65 package. The working range of temperature has to be at least $[-20^{\circ} +70^{\circ}]$, and the percentage of humidity in the air has to be as high as possible.

The device will have sharp variations in temperature, that can condense the humidity in the air into the package. The firm is finding for the hardening of the card (that can consist in the introduction of a vacuum valve into the package, or in drawing up the card a suitable resin, or other), and for the card manufacturing too.

Type of Cooperation

The partners must engineerize a card designed from the firm, and eventually its package. Then they have to realize the engineered card and the package, giving technical assistance after the sale. The partner sought can be a SME or an industry that designs, produces and sells electronic cards and packages.





Title

Design a package IP65 with integrated solar cell

Abstract

An Italian SME, working in the Conservation of Cultural Heritage field. It is designing a monitoring system for historical and artistic objects. It is finding an IP65 package for its sensors, designed to include solar cells over one of its side, and a vacuum valve (that is a valve which allows to make vacuum into the package).

The package requested has to be compliant with IP65 specifications (at least). They are: dust must not enter at all and water jets directed at the enclosure from any direction must not have any harmful effects. This package has to be designed so that one of its sides includes some solar cells (max 30 cm²). Moreover it has have a valve which allows to create vacuum into the package.

Type of Cooperation

The partners must design for an Italian SME the packages, and eventually customize them to feet with particular requirements, giving technical assistance Then the partner must supply an Italian SME with the designed packages. The partner sought can be a SME or an industry that designs, produces and sells packages.



**Title**

Electronic devices for physical and chemical measurement

Abstract

An Italian SME is working in the Conservation of Cultural Heritage field. It is looking for electronic transducers (sensors) of different parameters size to monitoring the state of conservation of historical and artistic heritage, at the highest stage of technology. The physical parameters of interest are mechanical , that are temperature, humidity, tension, extent, position, colour, and others. The chemical parameters are the local percentage of polluting agent in the air.

Type of Cooperation

The partners must supply an Italian SME with its transducer, giving technical assistance during the designing and the testing of the device which will use the sensor, and during the device's operation The partner sought can be a SME, an industry that designs, produces and sells electronic transducers, or a distributor of electronic transducers.



**Title**

Low-cost device for wireless telemetry and remote control of systems

Abstract

A firm located in Rome specialised in research, planning and implementation of electrical energy generation systems fuelled by a renewable source has created a line of electrical generators with accumulation. These generators are photovoltaic but also aeolian, fixed or portable, highly innovative, adaptable to every use. A commercial agreement with technical assistance is sought.

Type of Cooperation

Distributors, manufacturers and assemblers interested in all kinds of devices that require an autonomous and clean source of energy (Middle-sized) are sought for commercial agreement with technical assistance.





Title

Reinforced autorechargeable motorized locks

Abstract

A SmE, located in Rome, offers a reinforced auto-rechargeable motorized lock in stainless steal. The lock is easy to open & to lock with a pressure of a button or remote control. Particular is its fast mechanical & electrical assembling capability even in areas without electricity; locks can be supplied using photovoltaic array with doors or gates far from electrical links. The SmE is looking for Distributors, manufacturer, assemblers interested in commercial agreements with technical assistance.

Type of Cooperation

The SmE is looking for collaborations with distributors, manufacturers and assemblers from the Energy and other applications sector.

The SmE is interested in developing a new market for the equipment which is already been launched. They want to generate new commercial agreements offering all technical support needed and will adapt the technology to the specific needs of each assembler, manufacturer or distributor. The commercial agreement includes technical assistance, e.g. assembly, engineering and also technical consultancy while requested.



**Title**

Energy generation floating system based on sea waves

Abstract

An Italian firm has patented an innovative power generator based on energy coming from sea waves. Engineering efforts were spent to adapt operations of the power generators to the specific characteristics of the seas: climate, kind of water, wind etc change a lot from Mediterranean Sea to other seas and therefore the power system must be flexible in the operations as well as in installation.

Type of Cooperation

Power companies and agencies for the environment are sought as partners for mature technology in the production of mechanical components, alternators, carpentry stainless steel.



**Title**

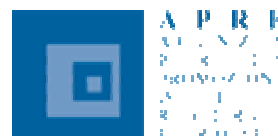
Plasma torch reactor for the inertisation of hazardous wastes

Abstract

An Italian reference centre for innovation in materials and in related production technologies has developed an innovative system for the treatment of noxious wastes. The plasma torch reactor is a very compact system that allows the treatment of hazardous wastes (PCB, asbestos, hazardous ashes, biomass, furnace dusts) with the only production of a completely inert vitrified slag.

Type of Cooperation

The centre is looking for industry or universities that can suggest new possible applications, technical Co-operation, commercial Agreement with Technical Assistance, Manufacturing agreement (Subcontracting & Co-contracting).



**Title**

Environmental System Analysis

Abstract

An Italian company, active in air quality modeling and forecasting sector, offers Air Quality Manager, a comprehensive DSS that allows to perform complex scenario analysis. The service developed is specially suited for companies operating in the sector of wind energy production, since it provides detailed information about wind potential in a given area to rapidly and precisely determine if preparing a business plan or give up..

Type of Cooperation

The partners sought are companies involved on the wind energy production market for technical cooperation agreements.





Title

Easy-to-transport compact electric generation system with accumulation fuelled by photovoltaic or aeolian energy

Abstract

A firm located in Rome specialised in research, planning and implementation of electrical energy generation systems fuelled by a renewable source has created a line of electrical generators with accumulation. These generators are photovoltaic but also aeolian. Starting from their product portfolio of fixed systems, an innovative product line extremely compact and suitable for transportation (e.g. in an airplane) has been created. A commercial agreement with technical assistance is sought

Type of Cooperation

Looking for partners such as distributors, manufacturers and assemblers interested in all kinds of devices that require an autonomous and clean source of energy in the specific area of energy and other applications. The aim is to develop new EU markets for the equipment. The company will offer all technical support needed and will adapt the technology to specific needs.



**Title**

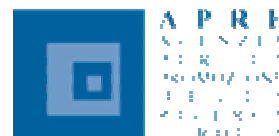
Induction generator (thermo- or chemical-based)

Abstract

An Italian SME active in the renewable energy domain offers an innovative induction system that generates electricity at room temperature by means of non-polluting and harmless chemical reactions. Thermosolar sources, as well as other sources (from waste disposals to domestic sources, thermo- or chemical-based), can be used.

Type of Cooperation

Service companies and large enterprises active in the multiutility and in the power production/distribution field are sought for licence agreements, technical cooperation and manufacturing agreements.



**Title**

Energy management and energy efficiency in buildings

Abstract

An Italian company offers his expertise and know-how in the field of energy management and planning. By his consulting services the company is able to certificate the energy efficiency in buildings (i.e. by calculating the quality/price ratio that comes from the use of a new technology).

Type of Cooperation

The company is looking for technical co-operation partners License Agreement, Financial Resources, Commercial Agreement.



**Title**

Electric generation systems with accumulation fuelled by photovoltaic or aeolian energy

Abstract

A firm located in Rome specialised in research, planning and implementation of electrical energy generation systems fuelled by a renewable source has created a line of electrical generators with accumulation. These generators are photovoltaic but also aeolian, fixed or portable, highly innovative, adaptable to every use.

Type of Cooperation

A commercial agreement with technical assistance is sought. Middle-sized distributors, manufacturers and assemblers interested in all kinds of devices that require an autonomous and clean source of energy.

