



**Switch on
Cooperation!**



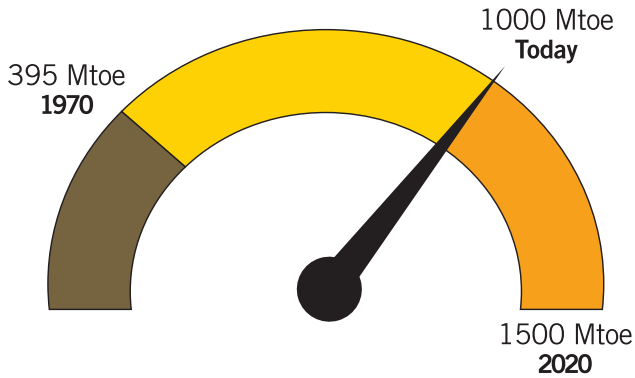
FOSTERinMED



Energy challenges and opportunities for the future

The total demand on primary energy in the Mediterranean is on a continuous rise, and this trend has a significant impact on the energy import dependency in the entire region.

Total Mediterranean primary energy demand



Energy consumption rate: **2,8% growth per year**

Today, members of the Mediterranean community face many challenges related to energy issues, sustainable development and climate change. Our common issues call for common solutions.

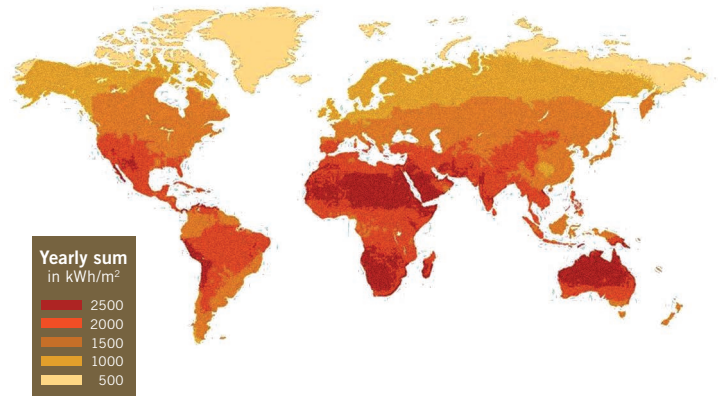
Members of the Mediterranean community share an asset which returns extensive opportunities for exploitation: our geographical position offers the best prospect for renewable technologies development. Among them, solar technologies have a special relevance in the Mediterranean countries, which are considered to be one of the best locations for solar energy.

The Mediterranean's enormous potential is still unexpressed, and can be maximized through a strategic approach outlining a common route between countries that share a common future.

One of the top priorities within the Mediterranean basin must therefore cover the increasing demand for energy derived from renewable sources, specifically solar energy.

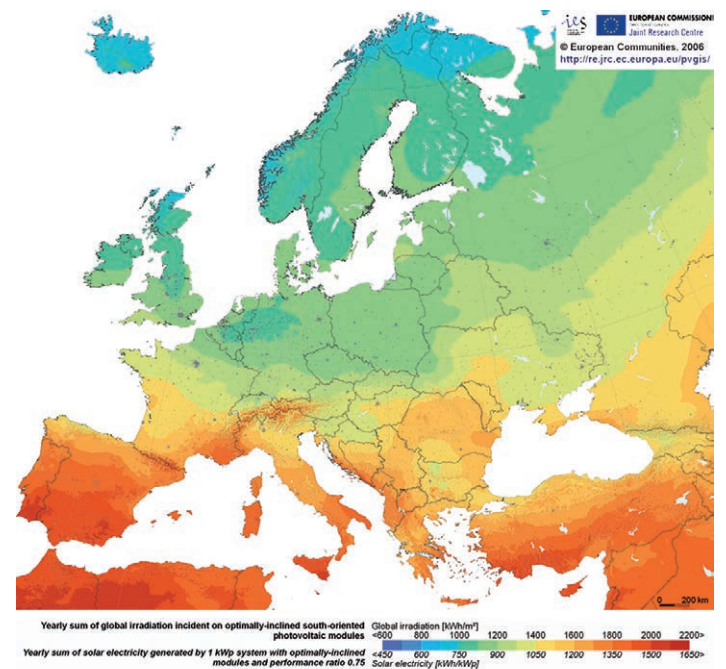
FOSTER in Med answers the needs of the Mediterranean energy demand increase (in terms of energy consumption) of the populations of the Mediterranean area.

Global irradiance worldwide



Solar radiation map is based on values of Meteornorm (www.meteornorm.com). All information is subject to change.

Photovoltaic Solar Electricity Potential in European Countries



FOSTER in MED

The project

- intends to fully exploit the potential of solar technologies through: transfer of technical know-how to sector players (designers, small and medium enterprises, installers, and university students); implementation and promotion of a shared design methodology; promotion of solar technologies and its technological trends at the civil society level; identification of best practices in the policy and regulatory fields; implementation of five pilot projects aiming to equip public buildings with innovative solar photovoltaic plants.



aims at bridging the gap between theory and practice in the solar field. Transfer of competences, training and dissemination, will be indeed supported by defining guidelines for architectonic integration of solar technologies and by implementing pilot projects as part of best practices. The set-up of a theoretical common approach in the field of renewable energy will support the creation and development of local clusters comprising local authorities, universities and research Centers, Chambers of Commerce and other representatives of SMEs.

promotes **the adoption of innovative solar photovoltaic (PV) technologies in the Mediterranean area**. The project embraces a multi-layer strategic approach, involving local stakeholders to ensure that project activities will have a multiplicative effect at the Mediterranean Basin level, in terms of outcomes replication, dissemination and transferability of results both beyond the partnership and after the end of the Project.

Strategic perspective

The project is characterised by a strategic approach: it aims to **affect different layers of civil society**, from public administrators to professionals, students and citizens. Furthermore, it aims to affect different clusters, from the perception of civil society on solar energy benefits and best policies implementation, to technical competences transfer and implementation of innovative pilot projects.

The project provides a committee of experts, the Technical Scientific Committee (TSC) of members from both shores of the Mediterranean Basin, coming from universities, research centers, private and institutional sectors. The aim is to **build a common expertise** in the field of photovoltaic solar technology, to transfer common technical capability, and to promote the opportunities offered by solar energy overcoming cultural and legislative barriers within the involved countries.

From an economical perspective, project activities aim to **stimulate both supply** (designers and private sector) **and demand** (local citizenship) in the solar energy local market in order to influence experts from the Academic Mediterranean environment with FOSTER approach.

At the technical level, the project will have an impact on local designers, installers and university students through the **competence transfer** activity (training paths).

Activities and results

Context Analysis

The aim is to provide an analysis of incentives and challenges to the PV diffusion. It will be performed in the regions involved in the project and focused on the analysis of energy consumption and production trends, the local regulation standards and the assessment of the knowledge and public acceptance of solar energy in the partners' countries. Context Analysis will be performed by each partner through: 1) a desk approach; 2) the conduction of interviews to the local stakeholders and 3) the administration of questionnaires to the consumers.

Results:

Qualitative analysis report

Territorial Animation

Solar technologies and its technological trends will be promoted at local level by territorial animation events, in order to raise the awareness of local citizens on solar energy use benefits. School seminars will be performed and students will be informed about solar energy issues. Local public administrators will also be involved in workshop aimed to set up, with a participative approach, policy proposal papers to foster solar technologies adoption and to overcome local normative barriers.

Results:

At least 3500 students of 60 schools informed about solar energy and applied technologies.

At least 350 citizens informed about solar energy and applied technologies.

At least 6 policy papers proposals.

Competences Transfer

The activity involves training courses for designers, university students and SMEs.

Courses will focus on the design, the architectural integration and installation of photovoltaic plants.

The Technical Scientific Committee will draw up guidelines for solar technologies and their architectural integration.

Results:

N. 18 Training paths

N. 180 designers trained

N. 120 installers trained

N. 150 University students trained

Pilot Projects

Solar energy plants will be implemented in five out of six eligible regions: Al-Iskandaryah (Egypt), Lebanon (Lebanon), Al-Aqaba (Jordan), Tunis (Tunisia), Sardinia (Italy), and five public buildings will host innovative solar photovoltaic plants. Public buildings will be selected in order to test different technological solutions and architectural ways of integration.

Results:

N. 5 Pilot projects realized

N. 85 kWp (Kilowatt peak) of PV panels installed (of about 17 kWp per plant).



Who we are

Applicant

University of Cagliari (UNICA)

Is one of the largest enterprises in the Region of Sardinia, thanks to its international policy, studies and its numerous agreements with prestigious universities in Europe and around the world. UNICA participates to the project with 2 departments: Department of Civil and Environmental Engineering, and Architecture (DICAAR). Research work areas are: land engineering; structural, infrastructural and geomantic engineering; geo engineering and environmental; architecture. Department of Social Science and Institutions (DSSI) is a multidisciplinary department. Research work areas are: sociology, economics, statistics, social psychology, law, international studies, political science.

www.unica.it

Project partners

Association of the Mediterranean Chambers of Commerce and Industry (ASCAME)

The association is an organization with a potential membership of 500 Chambers of Commerce, and other associated entities, from the 23 countries bordering the Mediterranean Sea.

ASCAME was created with the primary goal of furthering economic cooperation throughout the Mediterranean region, showing a strategic vision of North-South cooperation and integration. The Association plays a significant role in the field of international cooperation between Chambers of Commerce: it provides support and advice to Chamber of Commerce members, encourages contacts between them and promotes their respective initiatives, such as staff exchange programmes between Chambers of Commerce members, training programmes, forums, conventions and fairs.

www.ascame.org

Contact: Fearghus Roche • Tel: +34 934 169 573 • froche@ascame.org

Promotional Services Centre for enterprises (CSPI) Special Agency of the Cagliari Chamber of Commerce

Its objective is to promote and support the development of businesses in the South of Sardinia, in all economic sectors, through a strategy of integration and penetration into national and international markets. Areas of intervention are promotion of economic information, innovation and training, as well as internationalization, providing businesses with advice and guidance for the development of foreign markets. The Service Center expands its business planning initiatives in European competitions, national and regional authorities.

www.csimprese.it

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Confederation of Egyptian European Business Associations (CEEBA)

(Network/Federation in the sector of business and other services).

CEEBA members are business associations and representatives of the enlarged European Union, the EU2. Regularly CEEBA delegations from Egypt are participating in conferences, workshops and roundtables in the EU. It executes visibility activities and support to EuroMed and ENP processes and supports capacity building of economic operators (EU-Egypt Bilateral Chambers).

CEEBA coordinates the activities of the European chambers and business associations in Egypt and acts also on behalf of non-existent bilateral chambers for EU member state.

www.ceebea.org

Contact: Salma El-Sahhar • Tel: +203 4273338 • info@ceebea.org

Industrial Research Institute (IRI)

Is a Lebanese scientific Institution involved in: testing and analysis through pluridisciplinary ISO17025 accredited laboratories; studies and research; certification covering systems, products and persons. IRI is a non-profit institution, linked to the Ministry of Industry with administrative and financial autonomy. The Institute hosts several projects related to applied research, innovation support, clean production, environmental issues and green technology.

www.iri.org.lb

Contact: Naji Abi Zeid • Tel: +961 5 465 613 • n.abizeid@iri.org.lb

The Royal Scientific Society (RSS)

The Royal Scientific Society (RSS) is the largest applied research institution, consultancy, and technical support service provider in Jordan and is a regional leader in the fields of science & technology. RSS provides expert testing services via over 25 specialised locally & internationally accredited laboratories and prides itself on offering both the public and private sectors a unique scientific resource and a wide range of project expertise. Supported by more than 500 science specialists, researchers, technical support staff, highly skilled management, and faculty, the RSS has truly become recognized as a local, regional and international research and development hub. The National Energy Research Center (NERC), which is one of the specialized technical centers of the Royal Scientific Society (RSS), has been established in Jordan for the purposes of research, development and training in the fields of new and renewable energy and raising the efficiency of using energy in the different sectors of the economy.

www.rss.jo

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Chamber of Commerce and Industry of Tunis (CCI Tunis)

Is a Public Administration in the sector of business and other services such as trade and tourism, which counts among its missions: providing the public authorities and policy makers with information, opinions and suggestions of SME's (1100 members); assisting companies in the international trade operations and contribute to develop partnership opportunities in the areas of industry, commerce, crafts and small business through managing partnership meetings, businessmen's missions abroad, exhibitions, participate in international economic events; providing the Tunisian companies with the useful economic information and assistance in order to develop their business mainly on the international scale; organizing cycles and seminars of training.

www.ccitunis.org.tn

Contact: Samed Ben Abid • Tel: 21622233547 • pexp.tunis@ccitunis.org.tn

Autonomous Region of Sardinia (RAS) Industry Department is a Public Administration

Industry department -Energy Service- competencies are: defining strategies and policies in energy field; planning and programming in energy field; coordinating local authorities; drafting the Regional Energy Plan; programming of renewable energy sector; efficiency and energy saving; structural funds management.

www.regione.sardegna.it

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Associate

Sardinia Mediterranean Foundation

The foundation organizes several initiatives of study and training. It is also active in the implementation of territorial animation events in Sardinia.

www.sardegnameiterranea.org

Disclaimer

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Statement about the Programme

The 2007-2013 ENPI CBC Mediterranean Sea Basin Programme is a multilateral Cross-Border Cooperation initiative funded by the European Neighbourhood and Partnership Instrument (ENPI). The Programme objective is to promote the sustainable and harmonious cooperation process at the Mediterranean Basin level by dealing with the common challenges and enhancing its endogenous potential. It finances cooperation projects as a contribution to the economic, social, environmental and cultural development of the Mediterranean region. The following 14 countries participate in the Programme: Cyprus, Egypt, France, Greece, Israel, Italy, Jordan, Lebanon, Malta, Palestine, Portugal, Spain, Syria (participation currently suspended), Tunisia. The Joint Managing Authority (JMA) is the Autonomous Region of Sardinia (Italy). Official Programme languages are Arabic, English and French (www.enpicbcmec.eu).

General statement on the European Union

The European Union is made up of 28 Member States who have decided to gradually link together their know-how, resources and destinies. Together, during a period of enlargement of 50 years, they have built a zone of stability, democracy and sustainable development whilst maintaining cultural diversity, tolerance and individual freedoms. The European Union is committed to sharing its achievements and its values with countries and peoples beyond its borders.



FOSTer in MED

Fostering Solar Technology in the Mediterranean Area

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IN THE MEDITERRANEAN