

# **RURASU: Project Description**

## **1. Summary**

### **Objectives**

Having the knowledge and the experiences from establishment and operation of the Design and Advice Support Units it came up the need to work intensive with rural areas. So, the aim of the proposal is to provide energy management, energy conservation consultancy and services in rural areas. The above will be achieved through the Design and Advice Support Unit partners network, which have to combine and adapt scientific and technological knowledge with best engineering and architectural practice.

As most of the areas, that are under the Design and Advice Support Units authority have, "cold climate" (North European countries) or "climate of mountain" (Greece), the main energy problem is the requirement for heating and energy supply.

The specific objectives of the proposal include: the adaptation of already developed practical educational material and design tools to the local conditions so that are suitable for use within the scope of the project, the organization of specific events promoting the use of RES in buildings (like announcements in newspapers and radios) among local actors, the assessment of the energy characteristics of each involved regions building stock, the training of professionals on techniques and high quality materials or systems, the training of energy auditors in accordance to the EC directive and the establishment of a Design and Advice Support Units Partner network, experienced professionals and construction materials or systems providing renewable or low energy solutions.

### **Description of the work**

The project team will achieve the objectives presented above, through the implementation of seven phases. The total duration of the project is 30 months. The overall work will be divided and carried out in the following work packages:

- Systematization and exchange knowledge and experience.
- Setting-up and further development of Rural Design and Advice Support Units in EU
- On-site Consultations in respect of the EC Building Directive
- Creating of a Rural Design and Advice Support Unit Partner Network
- Support of local Energy Management
- Media Work and Free Pre- Consultation Service
- Evaluation and Dissemination Strategy

To disseminate the results of the project a specific dissemination plan has been designed and is proposed.

### **Expected results**

The final deliverable of the present project will be focus to the energy problems of each involved area, aiming to support dispersed local actors like building designers, consumers, public authorities on the use of renewable energies and energy efficiency measures in the building stock. The most expected results are: Design and Advice Support Unit for rural areas, training of professionals on renewable energy techniques, systems or materials, set-up of Design and Advice Support Unit Partner Network, wide dissemination by internet, newsletters, newspapers, radios, produce of educational material, such as leaflets, booklets, simplified software tool for building simulations in local language, training of energy auditors, establishment of quality criteria for Design and Advice Support Units and auditing consultancies.

## 2. Expected results

### a. Direct outcomes, results and products of the proposed action

Documentation, technical and scientific support, free consultancy are the more efficient and convincing processes to encourage people in applying Renewable Energy Systems. Also it is of great importance the regular training and continuously support and advice to building professionals to facilitate the implementation of the basic principles and main techniques and systems, by providing them the necessary resources - available information and tools- in a complete and simple form. Especially, this support is more beneficial when provided to professionals located in a specific remote region, as they do not have the opportunity to get high quality education and technical support since no qualified academic institutes or other educational bodies of high expertise on the subject are located within the region of their activity. It is evident that it is not possible to evaluate exactly the impact of educational material to energy conservation and to apply cost-benefit analysis on the development of educational material. However, it is well known, that it is a very powerful tool towards a more efficient integrated design of buildings.

The effect of the action will be to provide the following:

- The new educational material will permit to promote Renewable Energy Systems and high quality materials (e.g. solar panels, sunspaces, high efficient boilers, demand control ventilation, heat recovery units), will increase the efficiency of the education on this topic as it will be adjusted to the conditions prevailing in the specific involved regions and thus will contribute in reducing building energy consumption for heating in Europe.
- The further development of the Design and Advice Support Units will provide the local people with the highest quality services regarding the use of RES.
- The regular teaching and training of the professionals will facilitate the local community with experienced people, who are necessary in order to apply the proposed systems, materials and techniques.
- The proposed consultation infrastructure will combine and link technical and scientific expertise with best practice guidance and will provide all the necessary information to minimize the required heating load.
- Development of educational material for training energy auditors and training energy auditors as well. This will facilitate the local community with qualified professionals to put into effect the building European Directive.
- The continuous support the local Design and Advice Support Units will provide to local actors of the building sector will result in the broader use and implementation of active and passive heating systems and other energy-efficient techniques in each region's built environment. This can eventually lead to important energy savings, up to 40-50% of the current energy consumption required for heating of the building stock and consequently to relevant significant money saving and decrease of CO2 emissions. The specific targets that have been set by each involved region are reported below, where information on the energy characteristics and building market of the involved regions are presented as well.

### b. Potential impacts of the action

*What is the long-term objective to which this project contributes?*

The long-term objective of the proposal is to reduce the required heating load in European buildings through the use of the regular teaching and training of the professionals and support of local community in rural areas.

The final outcome of the proposal is a permanent infrastructure for building professionals, building owners or administrative staff providing information on how to design to cut off the heating demand using integrated methodologies and RES systems and techniques, as well as regular teaching and training of professionals.

*How does it contribute?*

By producing:

- New educational material, adapted to the Building European Directive, the local standards and requirements of each involved region.
- A simplified simulation tool with interface in the local language.
- New educational and support infrastructure of a permanent nature, which will provide channels for delivering high quality scientific knowledge.

*What else will be required to achieve this goal?*

The reduction of the heating load to rural areas is difficult to be achieved without a support infrastructure such as the Design and Advice Support Units. Since the pilot action of the Design and Advice Support Units was successful, an advanced replication of the process is now proposed. The proposed scheme, is more active on the teaching and training of the local professionals while it takes into account the Building European Directive. Also it will provide extra information on the reduction of heating load, as it has been shown more than the 60% of the overall building consumption is for space heating.

*What are the costs and benefits of achieving this goal?*

As mentioned in a previous paragraph, it is evident that it is not possible to calculate the impact of the proposed advice and support activities to the reduction of heating load and to apply cost-benefit analysis on the development of educational material. Assessments on the expected energy savings of buildings in Europe show that the annual short time potential for energy conservation is close to 150-170 Mtoe. Efficient training and provision of support to professionals on the use of RES in new and refurbished buildings, can contribute to a large extent in the application of energy efficient technologies and thus to a significant cover of the above mentioned energy saving potential.

Regarding the application of Renewable Energy systems, techniques or high quality energy saving material in buildings, some of the benefits are:

- Reduction of the heating load: The resulting savings in primary energy can be considerable and in some cases can reach 80%.
- Reduction of the need for energy supply. In rural areas mainly vehicles provide the energy supply, so the reduction of heating load results to minimize of transportation (= oil consumption & emissions). . Environmental benefits: There are important environmental benefits associated with the reduction of the emission of CO<sub>2</sub>.
- Improvement of quality of the indoor environment and occupant's health.
- Cost savings: These will include savings in capital, maintenance and running costs.

### **3. Target group(s) and key actors**

The proposed action is addressed to all local actors of the specific rural regions where the project will be realized and especially to building professionals involved in Heat Systems and Integrated Building Design, including Heat System Designers (Mechanical Engineers), Building Designers (Architects and Civil Engineers), Building Engineers (Mechanical and Electrical Engineers), Building Scientists (Building Physicists and Indoor Air Specialists), Energy Auditors, Building Managers and maintenance personnel, Developers and Building Industrial Engineers. Industrial managers and executives, Professional Organizations and Utilities, Planners and Energy Economists and, also, any other person or organization involved in the building sector and the energy efficient design of buildings, to local authorities and to consumers of the involved regions seeking for advice. Furthermore, individuals involved with the Local Agencies in other projects in the specific rural areas will be important rural DASU's target group.

Some of the key actors, mainly local authorities have already been involved in the proposal preparation as they are cooperating with the local DASUs. In addition through the project realization, rural local actors will be involved in an everyday-basis as they will benefit from the Units operation and will contact the Unit for Design Advice and Support.

## 4. Work Programme

### 4.1. Overview

In order to fulfill the above-mentioned objectives and having the knowledge and the experiences from establishment and operation of the Design and Advice Support Units it came up the need to work intensive with rural areas. So, the aim of the proposal is to provide energy management, energy conservation consultancy and services in rural in four member states (Greece, UK, Spain and Germany). The project aims to develop an energy design advisory service which would provide the infrastructure for carrying out design advise, training, dissemination and seminar/course activities with a particular focus on energy efficient building design and renewable energy.

The proposed operation of the rural DASUs scheme constitutes a major initiative for bridging the gaps that exist not only between the potential and actual reductions for energy consumption and CO<sub>2</sub> emissions, but also the knowledge concerning energy conscious design and its practical implementation.

These units, on one hand will provide specific case-by-case consultation to the local professionals intending to implement RES systems and techniques (mainly in heat systems) in the built environment, and on the other hand will realize various supplemental activities which will advertise the role and the focused work of the unit regarding the new EC directives, disseminate its activities and aim the local actors to promote the use of RES in the building sector, mainly in the heat systems.

Consequently, from each involved country a local partner will participate in the project undertaking the administrative support of the DASU, as well as an academic institute supporting technically and scientifically the unit and providing consultancy and educational material to it. The design of infrastructure and operation of the established DASUs will be based in a great degree in the Design Advice schemes established by REASURE project (Altener, Contract No: 4.1030/Z/01-056/2001)

#### *The benefits of Design Advice to the local actors*

- Design Advice and Support is an independent and authoritative service
- The design team will have access to Best Practice advice
- Supplying a quality built environment with minimum operation costs
- Demonstration of commitment to environmental responsibilities
- Improved company image with customers, staff and shareholders

#### *Environmental benefits*

- Reduction in global climate change
- Fossil fuel use reduced
- Building materials recycled and reused
- Water conservation
- Minimal waste and pollution

As promotion is essential for the whole EIE programme for RURASU project dissemination activities are of major importance. Therefore two of our work packages are packages on dissemination activities. Moreover, the whole proposal is dissemination focused. Dissemination activities are tailored according to the different target groups to be addressed and carried out professionally.

The dissemination policy will include:

- a) Events organized by the regional Design Advice and Support Units that will be repeated regularly, in order to promote its role and activities among local actors (seminars, lectures)
- b) Development and maintenance of web site especially devoted in the operation of the established support units.
- c) Publications through local media.
- d) Participation in regional professional conferences and cooperation with local professional agencies and unions
- e) Organization and participation in seminars, workshops, exhibitions and other relevant events

- f) Articles in specialized magazines.
- g) Promotion of the project's workplan and results obtained to other interested regions and local organizations aiming to replicate the followed methodology
- h) Dissemination of the developed practical educational material

Dissemination activities in the project will be coordinated by CIENE, University of Athens in collaboration with the other participants. Each participant will be responsible for the implementation and dissemination of the project either in local or in European level, according to the specific dissemination plan. The Central Institution for Energy Efficiency Education (CIENE), which operates under the auspices of the University of Athens, has wide experience in this field and has already successfully carried out specialized research, application, education and dissemination programs on the field of the present proposal, either participating or co-coordinating the relevant projects.

The participants are specialized institutions having a high experience on the field of energy conservation of buildings, and integrated building design and are already involved in various European programs. Thus their role is to establish a communication channel between the target groups and the outcome of this proposal. The fact that institutes from various European countries participate in the proposal, guarantees the pan-European perspective of the project and the dissemination of the developed product to a wide audience.

The dissemination of the knowledge will be done in two levels. The first level is between the involving DASUs. The two highly successful rural DASUs, in Katerini – Greece and Kempton - Germany, will exchange their experience and knowledge in running of the rest regional DASUs, as rural. All the work will be done during the first 6 months of the project and will be covered all the areas – targets of WP1. Task leader of WP1 will be PIERIKI.

#### **4.2. Work packages**

The project team will achieve the objectives of the proposal through the implementation of seven phases. The total duration of the project is 30 months. Various phases and activities will run in parallel, as it can be seen in Project Timetable (above), which illustrates the time span of each phase and the relations between phases. The description of the various phases of the overall methodology, the exact duration of each phase, the actions planned for achieving the objectives, the dissemination strategy and the degree of involvement of the participants in each phase as well the phase cost are given below, in different table for each work package. The three subcontractors participate in more than one Work-package, but they appear only in the Work-package they participate mainly (in which the whole subcontracting budget is stated).

**Explanation regarding subcontracts:**

- SODEAN S.A., will establish and operate the new Spanish DASU in a focused-rural area in the region of Andalusia and participate in supplemental and dissemination activities.
- South Ayrshire Council will establish and operate the Scottish DASU in a focused-rural area in Scotland and participate in supplemental and dissemination activities.
- AUTH will participate in academic and in supplemental and dissemination activities in collaboration with IASA and PIERIKI S.A., for the Greek DASU.

From the aforementioned subcontractors, SODEAN S.A. and AUTH will be funded on their new actions and not for continuation of financing of the previous projects. This can be proved by the fact that their involvement on specific work-packages is related to total different actions and deliverables. Their previous involvement in projects only supports their experience and their ability to work in the specific network, as the new concept and deliverables are totally new and not used before.

**Explanation regarding future DASUs operation:**

**German DASU:** Eza! works with funding from different levels:

- The main fundings come from the shareholders of the non-profit DASU eza!.
- Important fundings come from the building and energy industries, including architects, craftsmen and building contractors for the membership in the eza! Partner Network and for the participation in training sessions.
- Other fundings for the work of eza! are the fees, payed by the customers of the energy consulting services.

In addition to these main fundings, eza! is looking for further fundings on local, regional and national level. After RURASU no EC funding required is required.

**Scottish DASU:** The DASU to be set up in South Ayrshire will continue to be supported by the South Ayrshire Council after the RURASU project finishes, as part of its obligation to promote energy efficiency and renewable energy under the EPBD. The support from the academic partner will be through the Scottish Energy Systems Group which has been sustained for 3 years, with funding for a further 3 years expected from a mixture of government and industrial sources. Academic technical support from the Energy Systems Research Unit at the University of Strathclyde will continue to be available after the project's completion.

**Greek DASU:** The DASU will continue to be supported by the Pieriki Anaptixiaki S.A. after the RURASU project finishes, as part of its general policy to promote energy efficiency and renewable energy in cooperation with Pieria Prefecture (major shareholder). Academic technical support from IASA and AUTH will continue to be available after the project's completion, as both are academic institutions under continuous governmental funding.

**Spanish DASU:** The DASU will continue to be supported by SODEAN S.A., having continuous governmental funding on energy related matters) after the RURASU project finishes. Academic technical support from UCA will continue to be available after the project's completion, as it is an academic institution under continuous governmental funding.

**Explanation regarding DASUs funding:**

Regarding the partners in UK and Spain their budget allocation is not as high as the rest, mainly due to the fact that DASUs will be operated by subcontractors, the main contractors of UK and Spain are at 7%FR category, and the required information for the establishment of the DASUs will be produced by the existing DASUs in Greece and German and given to them.

**4.2.1 Work Package 1**

N° of work package: 1	Name of the work package: <b>Systematisation and exchange knowledge and experience</b>
Duration in months: 6	Leader of the work package: PIERIKI
	Partners included: IASA, WIP, EZA
Total person-hours of work: 1.075	Total costs in EUR: 59.000
<p>Description of the work:</p> <p>Two of the Project Partners have already set-up and operate a Design and Advice Support Unit (DASU) in rural area. The knowledge and experience they had working in such an environment have to be disseminate. In order to do it more effective the systematization of experiences and knowledge is needed. The final product of the working package will be an action agenda for DASU set up in rural areas.</p> <p>Outcome of this work package:</p> <p>1.1 Systematisation of experiences and knowledge of EZA and PIERIKI The consortium will initiate an intense dialogue with EZA and Pieriki for systemising their experiences about DASU work in the rural surroundings. This systematisation will compromise: DASU consultation work, DASU PR strategy and press work, Funding structure and fund raising activities, liaison work with local communities and politics. This task will be performed by EZA and Pieriki, supported by the scientific partners of IASA and WIP.</p> <p>1.2 Systematisation of experience and knowledge in participating rural areas The participating rural regions of Spain and Scotland will be screened for their existing experiences for Renewable energy and energy efficiency work in the rural environment. This task will be performed by the subcontractors from Scotland and Spain.</p> <p>1.3 Seminar for knowledge exchange between the rural regions involved The entire consortium will come together on a seminar, held along with the kick-off meeting, to evaluate the results of Task 1.1 and 1.2 and further develop them in respect of the situation in the new DASU regions.</p> <p>1.4 Formulation of an action agenda for DASU set-up in rural areas (comprising technical, administrative and financial aspects) A comprehensive action agenda for setting up DASUs in the rural environment of Scotland and Spain will be comprised. This Action Plan will be formulated in such a general way that it can easily be used in other EU regions. The Action Agenda will be disseminated broadly.</p> <p>1.5 On site support of the new DASUs framework during the first six months of operation.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 1.1 Report on the experiences of the existing DASUs in the rural environment in Germany and Greece.</li> <li>• D 1.2 Report on the situation in the rural regions of the new DASUs</li> <li>• D 1.3 Document - action agenda for DASU set-up in rural areas</li> <li>• D 1.4 Report on Phase 1</li> </ul> <p>Contribution of each partner in this work package:</p> <p>PIERIKI: Report on the experiences of the existing DASU, Document - action agenda for DASU set-up in rural areas, Seminar organisation, on site support to the new DASUs, Phase's final reports</p> <p>IASA: Scientific inputs to Report D 1.1</p> <p>WIP: Scientific inputs to Report D 1.1, on site support to the new DASUs</p> <p>EZA: Report on the experiences of the existing DASU, Document - action agenda for DASU set-</p>	

up in rural areas

Subcontracts (tasks and foreseen amount, and name of organisation where available):

SODEAN S.A.: Report on the situation in the rural regions

South Ayrshire Council: Report on the situation in the rural regions

*“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive ground on the basis of best value for money”.*



**4.2.2 Work Package 2**

N° of work package: 2	Name of the work package: <b>Setting-up and further development of Rural DASUs in EU</b>
Duration in months: 17	Leader of the work package: WIP
	Partners included: All
Total person-hours of work: 1.760	Total costs in EUR: 157.020
<p>Description of the work:</p> <p>The set-up and operation of rural DASUs in Scotland, Spain is the one target of work package 2. The other target is further development of the new and existing DASUs. One more product will be a series of booklets regarding the DASU region and the fundamental of Renewable Energy Systems and techniques for space heating.</p> <p>Outcome of this work package:</p> <p>2.1 Set-up and operation of rural DASUs in Scotland, Spain                  The subcontractors South Ayrshire Council in Scotland and SODEAN in Spain will start their activities. This will comprise of the setting –up of office space, establishment of a contact person, starting the dissemination work. This work will be supported by the respective scientific organisations UCA for Spain and UoS for Scotland.</p> <p>2.2 Further development of DASUs in Germany and Greece                  The existing DASUs in Germany and Greece will intensify their activities in the following field of action:</p> <ul style="list-style-type: none"> <li>- PR and media work</li> <li>- Special focus on financing issues (commercial loans and third party financing)</li> <li>- Enhanced links to existing energy agencies, scientific institutes and networks in the field of renewable energy and energy efficiency.</li> </ul> <p>This work will be performed by PIERIKI in Greece and Eza in Germany and will be supported by IASA and NTUA for Greece and WIP for Germany.</p> <p>2.3 Close DASU linkage to existing structure and expertise domestically and internationally                  This action focus on the set-up of a partner network of craftsmen, architects and other stakeholders in the building sector</p> <p>2.4 Elaboration of education material                  Formulation of an “Information Acquisition Tool”. The various information that is available on renewable energies and energy efficiency issues. Valuable sources are the Internet, Energy Agencies, Utilities, Companies and former EU projects. The available information materials will be collected and scrutinised for their value in the rural environment. Based on this survey a tool will be formulated which easily explains where these information is available. The Tool will explain how what information sources are available and how to approach the relevant source. Translation of the tool will be made in all languages.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D.2.1 Report on the set-up and operation of the rural DASUs-Operation of the rural DASUs</li> <li>• D 2.2 Report on the further development of DASU work in Greece and Germany</li> <li>• D 2.3 “Information Acquisition Tool”</li> <li>• D 2.4 Report on Phase 2</li> </ul> <p>Contribution of each partner in this work package:                  PIERIKI: Operation of the rural DASU, set up of partners network for Greece                  IASA: Technical support on the operation DASU, Elaboration of Educational material</p>	

WIP: Technical support on the operation DASU, Elaboration of Educational material, Phase's final reports

EZA: Operation of the rural DASU, set up of partners network for Germany

UoS: Technical support on the operation DASU, Elaboration of Educational material,

UCA: Technical support on the operation DASU, Elaboration of Educational material

Subcontracts (tasks and foreseen amount, and name of organisation where available):

South Ayrshire Council, Set-up and operation of rural DASU in Scotland, set up of partners network for Scotland ,60.000€(The amount cover the whole participation, including other WPs)

SODEAN S.A., Operation of rural DASU in Spain, set up of partners network for Spain, 40.000€ (The amount cover the whole participation, including other WPs)

*“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive ground on the basis of best value for money”.*

## 4.2.3 Work Package 3

N° of work package: 3	Name of the work package: <b>On-site Consultations in respect of the EC Building Directive</b>
Duration in months: 30	Leader of the work package: WIP
	Partners included: All
Total person-hours of work: 3.000	Total costs in EUR: 149.200
<p>Description of the work:</p> <p>The conformation to the European Building Directive is one more target of the project. The reduction of heating is one way to improve the energy labelling of the building. This is more effective if the system consist from oil fired boiler, which situation in rural areas. In order to achieve this, the training of energy auditors is necessary. Additionally a common simplified building simulation tool with interface in the local language will be produced.</p> <p>Outcome of this work package:</p> <p>3.1 Analysing the auditing requirements of the EC Building Directive The new EC building directive is the basis for all work to be performed in this WP. Thus, a careful analysis of the directive requirements in the national legislation of the participating countries is the first step of this WP which will be undertaken by WIP.</p> <p>3.2 Elaborating a building typology for each new Rural DASU region defining the energy characteristics of prominent building types of the region (both status quo and feasible refurbishment actions) The consortium will define typical building types in the rural environments of the new DASUs. For these building characters the energy status quo and the refurbishment potential which is economically feasible. This work will be based on the experiences in the REASURE project and will be performed for the Spanish DASU region by UCA and for the Scottish DASU region by UoS.</p> <p>3.3 Adopting an existing computer tool for elaborating building simulation on a restricted complexity level This important work will enable the new DASUs to use a well designed tool for their energy consultation work. This work is to be allocated by IASA.</p> <p>3.4 Implementing a certain amount of pre- consultations and on- site auditing actions in every Rural DASU which fulfil the EC Directive requirements This work will be undertaken by UoS for Scotland, UCA for Spain, EZA for Germany and IASA and AUTH for Greece.</p> <p>3.5 Training of professionals in the requirements of EPBD Every DASU will undertake in minimum four training courses for energy consultants teaching them in respect of the EC Building Directive requirements and the connected Building Energy Certification.</p> <p>3.6 Quality control of auditing consultancies in every DASU WIP as WP co-ordinator will set – up a platform which will allow to easily assess the quality of the consultation work in every new and old DASU.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 3.1 Report on requirements of the EC Building Directive</li> <li>• D 3.2 Report on database of existing building stock in the rural area.</li> <li>• D 3.3 Report on common computer tool for building simulations, with interface in the local language.</li> <li>• D 3.4 More than fifty (50) pre- consultations and on- site auditing spread in the four rural regions.</li> </ul>	

- D 3.5 Report on the pre- consultations and on- site auditing along with quality control (criteria, application).
- D 3.6 List of educational material for training energy auditors
- D 3.7 Two (2) training courses for training energy auditors
- D 3.8 Report on Quality Control of auditing consultancies
- D 3.9 Report on Phase 3

Contribution of each partner in this work package:

PIERIKI: Training activities

IASA: Adopt an existing computer tool, Consultations and on-site auditing actions

WIP: Analyse the requirements of the EC Directive, Consultations and on-site auditing actions, Quality control, Phase's final reports

EZA: Training activities

UoS: Building typology for the rural region, Consultations and on-site auditing actions

UCA: Building typology for the rural region, Consultations and on-site auditing actions

Subcontracts (tasks and foreseen amount, and name of organisation where available):

South Ayrshire Council: Training activities

SODEAN S.A.: Training activities

AUTH: Consultations and on-site auditing actions

*“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive ground on the basis of best value for money”.*

**4.2.4 Work Package 4**

N° of work package: 4	Name of the work package: <b>Creating of a Rural DASU Partner Network</b>
Duration in months: 30	Leader of the work package: IASA
	Partners included: All
Total person-hours of work: 2.790	Total costs in EUR: 155.000
<p>Description of the work:</p> <p>The role of the Design and Advice Support Units is to provide energy services to the people of the local community. The most missing part in the rural areas is the experienced professionals and the lack of knowledge on renewable energy systems and techniques. So, it is the mandatory to teach and train the local professionals on renewable energy systems and techniques. This will be done in work package 4. Joint quality criteria will be defined in order to establish a Rural DASU Partner database. Also, a high quality products database will be established.</p> <p>Outcome of this work package:</p> <p>4.1 Defining joint quality criteria for the Rural DASU Partnership                      Prework was done already by the German DASU which created a “Code of honour” every DASU has to fulfil. This materials will be further developed and adopted to an own “Partnership Label” for every DASU. The work will be done by EZA and all DASU operators.</p> <p>4.2 Establish a database of professionals and experienced craftsmen active in the area and of high quality products                      Every DASU will undertake a stakeholder research compiling valuable contacts of the own region. Every DASU Operator will undertake this work with support of the WP co-ordinator IASA. The Greek database will be created by AUTH. The database will be consisted of two divisions. One of the professionals groups in building and rehabilitation and one of building elements and systems providers.</p> <p>4.3 Elaboration of educational procedure-methodology for teaching the DASU partners                      A document of the educational procedure-methodology will be created in order to have a common tool on teaching the DASUs.</p> <p>4.4 Built-up Rural DASU networks of architects, manufacturer and constructor companies                      Based on the previous working steps every rural DASU will create an own partner network. In this network, companies and institutes are allowed to use the DASU partner label if certain quality requirements are met (see 4.1).</p> <p>4.5 Regular teaching and training of DASU Partners                      The DASU partners will be explicitly invited to the training seminars undertaken in Task 3.5.</p> <p>4.6 Twinning activities between Rural DASU                      The project consortium will offer vast possibilities for knowledge exchange and twinning activities between the rural DASUs. These will take place on the regular project meetings. Every meeting will be dedicated to a certain issue of concern for the DASUs which then will be addressed by lectures and open discussions. Furthermore, the project meetings will take place at the site of the local DASUs and thus will bring additional knowledge about the work performed on-site.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 4.1 Report on the establishment of Partner networks comprising of the defined quality criteria</li> <li>• D 4.2 Database for each area (two divisions)</li> <li>• D 4.3 Report on the educational procedure</li> </ul>	

- D 4.4 At least 4 project meetings
- D 4.5 Twinning activities (during D 4.5)
- D 4.6 Report on phase 4

Contribution of each partner in this work package:

PIERIKI: Quality criteria definition, partner network, twinning activities

IASA: Educational methodology, twinning activities, Phase's final reports

WIP: Educational methodology, twinning activities

EZA: Quality criteria definition, Database creation, partner network, twinning activities

UoS: Educational methodology, twinning activities

UCA: Educational methodology, twinning activities

Subcontracts (tasks and foreseen amount, and name of organisation where available):

South Ayrshire Council: Quality criteria definition, Database creation, partner network

SODEAN S.A.: Quality criteria definition, Database creation, partner network

AUTh: Database creation, partner network 45.000€(The amount cover the whole participation, including other WPs)

*“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive ground on the basis of best value for money”.*

**4.2.5 Work Package 5**

N° of work package: 5	Name of the work package: <b>Support of local Energy Management</b>
Duration in months: 30	Leader of the work package: UCA
	Partners included: All
Total person-hours of work: 3.045	Total costs in EUR: 179.500
<p>Description of the work:</p> <p>The energy management is very crucial for the reduction of energy consumption. Usually the responsible people (owners, administrative staff, and genitor) don't have the appropriate knowledge about renewable energy systems and techniques. This will be fixed with seminars, which will organize the Rural DASUs, and with production of leaflets by the scientific support universities or consulting company.</p> <p>Outcome of this work package:</p> <p>5.1 Definition of service package for local energy management in public buildings  On one of the project meetings EZA will disseminate its knowledge in the field of local energy management in public buildings. Based on this introduction a service package for local energy management will be defined. This work will be done between UCA and WIP.</p> <p>5.2 Survey on stakeholders and public building stock in every Rural DASU region  All rural DASUs will undertake a survey on the public building stock and relevant stakeholders.</p> <p>5.3 Formulation of a ready-to- apply refurbishment plan for two representative buildings in every Rural DASU Region.  With the help of the scientific institutions ready to apply refurbishment plans for two representative buildings in every rural DASU region will be undertaken.  This work will be done by UCA with the help of all new DASUs.</p> <p>5.4 Training and implementation with relevant administrative staff and housekeepers  Every DASU will undertake training activities with house keepers and other persons involved in the energy management of public buildings. This work will be undertaken by every DASU operator.</p> <p>5.5 Formulation of documents on energy management of buildings on mainly on energy conservation and one of the followings: environmental friendly construction materials, water conservation, building refurbishment, Contracting and Third Party Financing.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 5.1 Database regarding the energy conservation and the building characteristic in the rural areas available on the internet.</li> <li>• D 5.2 Two studies for representative building in each area</li> <li>• D 5.3 More than two (2) events in order to demonstrate and disseminate the energy conservation techniques</li> <li>• D 5.4 More than ten (10) documents on energy management,</li> <li>• D 5.5 Report on Phase 5</li> </ul> <p>Contribution of each partner in this work package:  PIERIKI: Service package definition, demonstration events  IASA: Refurbishment plan, Documents preparation  WIP: Service package definition, Refurbishment plan, Documents preparation  EZA: Service package definition, Database of D 5.1, demonstration events  UoS: Refurbishment plan, Documents preparation</p>	

UCA: Service package definition, Refurbishment plan, Documents preparation, Phase's final reports

Subcontracts (tasks and foreseen amount, and name of organisation where available):

South Ayrshire Council: Database of D 5.1, demonstration events

SODEAN S.A.: Database of D 5.1, demonstration events

AUTH : Database of D 5.1, demonstration events

*“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive ground on the basis of best value for money”.*



## 4.2.6 Work Package 6

N° of work package: 6	Name of the work package: <b>Media Work and Free Pre-Consultation Service</b>
Duration in months: 30	Leader of the work package: EZA
	Partners included: All
Total person-hours of work: 2.525	Total costs in EUR: 147.500
<p>Description of the work:</p> <p>The dissemination of the knowledge and experience will be done through an Internet Webpage, editing and printing newsletters and the local media. A public relation strategy and training in media work are some of the activities involved in work package 6. Finally a number of different events and happenings will be organized.</p> <p>Outcome of this work package:</p> <p>6.1 Setting up coalitions with regional media (newspapers, radios) Every DASU will start cooperation with local media in order to make known their operation on the new focused areas. Within this cooperation weach activity will be publicised.</p> <p>6.2 Setting-up an interactive Internet Homepage which allows a first assessment of the energy situation of the own building Every DASU will establish or further develop an own Internet Homepage giving relevant information and the project and important background material. An overall RURASU Homepage will be created (able to host all local internet pages) giving updates on the project and links towards the local DASU activities. With the mentioned projects and actions undertaken in the very field the project will request to undertake banner exchanges. Thus, the RURASU activities will find a broad dissemination in the scientific world.</p> <p>6.3 Elaborating a comprehensive media and PR strategy comprising of corporate identity, DASU events and happenings</p> <p>6.4 Training in media work A one day training seminar for DASU workers will be organised in Kempten. On this seminar the EZA will explain their strategies and tools of their press and media work. This training will focus on the practical items and will enable the activists from other DASUs to train themselves in the skills of media and presswork. With the help of EZA drafts for individual media strategies for all DASUs will be elaborated.</p> <p>6.5 Implementing of media and PR strategy (PR materials) Based on these experiences each DASU will implement the own media and PR strategy. Particularly, coalitions with regional media (newspapers, radios) will be established in every DASU. In a first step a press release will inform about the participation under RURASU. Also other important activities of the project like international seminars, or the training courses will be brought to the media.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 6.1 Short description – contents of the Internet Homepage.</li> <li>• D 6.2 Internet Homepage in the local language with information regarding the building stock, DASU partners, high quality products</li> <li>• D 6.3 Document on public relations strategy</li> <li>• D 6.4 One (1) training course on media work</li> <li>• D 6.5 Public relations material</li> <li>• D 6. 6More than six (6) announcements to newspapers or/ and radios or/and TV.</li> <li>• D 6.7 Report on phase 6</li> </ul>	

Contribution of each partner in this work package:

PIERIKI: coalition with local media

IASA: Internet Homepage,

WIP: Document D 6.3, D 6.5 preparation

EZA: Internet Homepage, coalition with local media, training in media work, Phase's final reports

UoS: Internet Homepage, coalition with local media

UCA: Internet Homepage, coalition with local media

Subcontracts (tasks and foreseen amount, and name of organisation where available):

## 4.2.7 Work Package 7

N° of work package: 7	Name of the work package: <b>Evaluation and Dissemination Strategy</b>
Duration in months: 18	Leader of the work package: UoS
	Partners included: All
Total person-hours of work: 1.795	Total costs in EUR: 117.960
<p>Description of the work:</p> <p>The evaluation of the success of DASU operation is very important and is a major activity of work package 7. The future plan is to have the action agenda for DASU set up of work package 1 already corrected by the evaluation results and ready to apply. The target group will be the European countries (the fifteen and the new members). A cost benefit analysis for set-up Rural DASUs in the European countries will be done. The final results will be disseminated on relevant conferences and in the Internet.</p> <p>Outcome of this work package:</p> <p>7.1 Formulation of criteria of success for DASU operation</p> <p>7.2 Analysis of a cost – benefit ratio for Rural DASU in EU 15 and new member states</p> <p>Both 7.1 and 7.2 will be based on the knowledge of UoS in this respective field. The Energy Design Advice unit and the Scottish Energy System Unit, based at the UoS, have a track record in the evaluation of the cost-benefits of design advice units. This is done by documenting each consultation of the unit and evaluating the outcome of the advice in terms of energy savings, CO2 savings and costs. It is proposed that the methodology stemming from these projects is adapted to the specific operation of the RURASU project. Based on the specific results of the participating DASUs in the project generalisations will be made to assess the potential of such DASUs across other EU countries.</p> <p>7.3 Presentation of project experiences on relevant conferences and in the Internet. Link into existing projects such as ClearC</p> <p>The project interim and final results will be presented on relevant conferences (2 conferences, EC or related countries). The project will be announced at the Conference "<u>Energy Sustainable Communities</u>", which will be held on 4 March 2005 in Wels/Austria. Furthermore, the interim results will be shown on relevant events of the renewable energy and energy efficiency industries, such as European PV Solar Conference or building related actions.</p> <p>Furthermore, the project will take close reference to the on-going project of high importance especially to the OPET Building Network which is funded under the 5<sup>th</sup> framework program and undertakes highly relevant research work.</p> <p>Publications in 2 professionals' magazines will be made.</p> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 7.1 Document on criteria of success for DASU operation</li> <li>• D 7.2 Study on cost – benefit ratio for Rural DASU in EU 15 and new member states, including a cross-comparison of the different DASUs set up in the project to assess most effective strategies and conclusions.</li> <li>• D 7.3 (2) presentations of project experiences on relevant conferences</li> <li>• D 7.4 More than two (2) internet links into existing projects</li> <li>• D 7.5 Two publications in prof. magazines</li> <li>• D 7.6 Report on Phase 7</li> </ul> <p>This will include:</p>	

D 7.1	10 pages report document
D 7.2	15 pages report document
D 7.3	Presentations or abstracts approved/submitted or conference indication (for final deliverables)
D 7.4	Prove for the links (printings)
D 7.5	Papers or abstracts approved/submitted or magazine indication (for final deliverables)

Contribution of each partner in this work package:

PIERIKI: criteria adaptation, conference-publications preparation

IASA: criteria adaptation, internet links, conference-publications preparation

WIP: criteria adaptation, internet links, conference-publications preparation , Cost Benefit Analysis

EZA: criteria adaptation, conference-publications preparation

UoS: Criteria formulation, criteria adaptation, internet links, conference-publications preparation, Phase's final reports

UCA: criteria adaptation, internet links, conference-publications preparation

Subcontracts (tasks and foreseen amount, and name of organisation where available):

**4.2.8 Work Package 8**

N° of work package: 8	Name of the work package: <b>Common dissemination activities</b>
Duration in months: 30	Leader of the work package: IASA
	Partners included: All
Total person-hours of work: 490	Total costs in EUR: 44.520
<p>Description of work:</p> <ul style="list-style-type: none"> <li>• <i>Task 1:</i> Contribution, upon request of the Commission, to the development of online information systems under EC management.</li> <li>• <i>Task 2:</i> Participation, upon request of the Commission, at contractors’ meetings and conferences in association with the EIE and other relevant programmes, EU-wide exhibitions, etc.</li> <li>• <i>Task 3:</i> Contribution, upon request of the Commission, to the preparation of common presentation material related to EIE actions.</li> </ul> <p>Outcome of this work package:</p> <ul style="list-style-type: none"> <li>• Input to development of online information systems.</li> <li>• Participation in contractors’ meetings, conferences in association with the EIE and other relevant programmes, EU-wide exhibitions, etc.</li> <li>• Contribution to brochures and other media, web-sites, newsletters etc. on the EIE actions.</li> </ul> <p>Deliverable(s) of this work package:</p> <ul style="list-style-type: none"> <li>• D 8.1 Abstracts including regular updates</li> <li>• D 8.2 Project presentations including slide packages, presentations, written abstracts, posters, dissemination material etc.</li> <li>• D 8.3 Presentational material including abstracts, visuals including photographic material, interviews.</li> </ul> <p>Contribution of each partner in this work package:                      All Partners will participate in the meetings and be responsible for the phase under co-ordination.                      IASA will produce phase’s final reports</p> <p>Subcontracts (tasks and foreseen amount, and name of organisation where available):</p>	

**4.2.1 Work Package 9**

N° of work package: 9	Name of the work package: <b>Management</b>
Duration in months: 30	Leader of the work package: PIERIKI
	Partners included: All
Total person-hours of work: 1.050	Total costs in EUR: 85.800
<p>Description of the work:</p> <p>The figure includes the hours related to project meetings from all participants along with some hours for project co-ordination. Same goes for hours for reporting.</p> <p>Management of the project is based on a two-leveled function, with the following framework:</p> <ol style="list-style-type: none"> <li>1. The Project Coordinator</li> <li>2. The Phase Coordinator</li> </ol> <p>In that way the project is organized and managed in a way to guarantee a smooth functioning.</p> <p>The purposes of the structure is to enable the attachment of responsibilities in order every network member to know exactly what should expect in terms of collaboration, research actions, written contributions and so on.</p> <p>Outcome of this work package:</p> <p style="padding-left: 40px;">A project consortium with continuous communication and exchange of know-how in order the project objectives to be met.</p> <p>Deliverable(s) of this work package:</p> <p style="padding-left: 40px;">All the project deliverables.</p> <p>Contribution of each partner in this work package:</p> <p style="padding-left: 40px;">All Partners will participate in the meetings and be responsible for the phase under co-ordination. Pieriki will conduct the Final Report</p> <p>Subcontracts (tasks and foreseen amount, and name of organisation where available):</p> <p>Subcontractors may attend the meetings (depends on their involvment).</p> <p><i>“The subcontractors identified/to be identified were/will be selected following the provisions of Article II.9.2 of the Grant Agreement on competitive gorund on the basis of best value for money”.</i></p>	

### 4.3 List of deliverables and schedule

#### 4.3.1 List of deliverables

The final deliverables of the project have been numbered and are given below. In each column the following are presented and coded:

1. Deliverable No
2. Deliverable title
3. Type (D=document, A=application, S=Seminar type)
4. Size
5. Languages (E=English, G=German, Gk=Greek, Sp=Spanish, A=All)
6. Target Groups (L=Local Actors, W=Web (all), P=Partners)
7. Means of dissemination (R=Restricted, P=Public)

Date of Deliverable is included in the analytical project schedule

Delive-rable No	Deliverable title	Type	Size	Language	Target Group	Means of Dissemination
D 1.1	Report on experiences and knowledge on existing DASUs	D	15 pages	E	P	R
D 1.2	Report on the situation in the rural regions	D	15 pages	E	P	R
D 1.3	Document - action agenda for DASU set-up in rural areas	D	20 pages	E	W	P
D 1.4	Report on Phase 1	D	10 pages	E	W	P
D 2.1	Report on the set-up and operation of the rural DASUs/Operation	D/A	10 pages/N. A.	E/A	W/L	P
D 2.2	Report on the further development of DASUs in Greece and Germany	D	15 pages	E	W	P
D 2.3	Information Acquisition Tool	D	20 pages (or web based)	A	W	P
D 2.4	Report on Phase 2	D	10 pages	E	W	P
D 3.1	Report on requirements of the EC Building Directive	D	10 pages	A	W	P
D 3.2	Report on database of existing building stock in the rural area	D	15 pages	A	W	P
D 3.3	Report on common computer tool for building simulations.	D	10 pages	E	W	P
D 3.3	Common computer tool elaborating building simulations, with interface in the local language.	A	1in each country	A	W	R

Deliverable No	Deliverable title	Type	Size	Language	Target Group	Means of Dissemination
D 3.4	More than fifty (50) pre- consultations and on- site auditing.	A	50	A	L	R
D 3.5	Report on D 3.4	D	30 pages	E	W	P
D 3.6	List of Educational material for training	D	10 pages	A	W	P
D 3.7	Two (2) training courses for training professionals	S	40 persons	A	L	P
D 3.8	Report on the Quality control of auditing consultancies	D	15 pages	E	P	R
D 3.9	Report on Phase 3	D	10 pages	E	W	P
D 4.1	Report on the establishment of Partner networks	D	5 pages	E	L	P
D 4.2	Database ( 2 divisions) 2 for each DASU	A	2x4=8 divs	A	W	P
D 4.3	Report on educational procedure	D	10 pages	E	P	R
D 4.4	4 project meetings					
D 4.5	More than two (2) twinning activities of DASU Partners	S	4	E	P	R
D 4.6	Report on phase 4	D	10 pages	E	W	P
D 5.1	Database regarding the energy conservation and the building characteristic in the rural areas available on the internet.	A	4	A	W	P
D 5.2	Two studies for representative building in each area	D-A	5 pages/2 appls	A/E	L	P
D 5.3	More than two (2) events in order to demonstrate and disseminate the energy conservation techniques	S	5x2	A	L	P
D 5.4	More than ten (10) leaflets-documents on energy management	D	10X1 pages or web	A	W	P
D 5.5	Report on Phase 5	D	10 pages	E	W	P
D 6.1	Short description – contents of the Internet Homepage.	A	Web page	A/E	W	P



Deliverable No	Deliverable title	Type	Size	Language	Target Group	Means of Dissemination
D 6.2	Internet Homepage in the local language with information regarding the building stock, DASU partners, high quality products	A	Web page	E	W	P
D 6.3	Document on public relations strategy	D	5 pages	E/A	P	R
D 6.4	One (1) training course on media work 1 for each DASU	S	4X1 courses	A	L	P
D 6.5	Public relations material	D	10 pages	E	W	P
D 6.6	More than six (6) announcements to newspapers or/ and radios or/and TV. 6 for each DASU	A	4X6	A	L	P
D 6.7	Report on phase 6	D	10 pages	E	W	P
D 7.1	Document on criteria of success for DASU operation	D	10 pages	E	P	R
D 7.2	Study on cost – benefit ratio for Rural DASU in EU 15 and new member states	D	15 pages	E	W	P
D 7.3	Two presentation of project experiences on relevant conferences	S	2	E	P	P
D 7.4	More than two (2) internet links into existing projects	S	2	E	W	P
D 7.5	Two publications in professionals magazines	D	2	E	W	P
D 7.6	Report on Phase 7	D	10 pages	E	W	P
D 8.1	Abstracts	D	As requested	E	W	P
D 8.2	Project presentations	D	As requested	E	W	P
D 8.3	Presentational material	D	As requested	E	W	P
D 9	Management	A				

#### 4.3.2 Schedule

The project timetable, indicating the duration of work packages, the deliverance of developed products and reports and the dissemination activities is illustrated below

Project phase / Duration of the project (in months)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
WP 1: Systematization and exchange knowledge and experience						)																								
WP 2: Setting-up and further development of Rural DASUs in EU																D														
WP 3: On-site Consultations in respect of the EC Building Directive																														)
WP 4: Creating of a Rural DASU Partner Network																														)
WP 5: Support of local Energy Management																														)
WP 6: Media Work and Free Pre- Consultation Service																														)
WP 7: Evaluation and Dissemination Strategy																														)
WP 8: Common Dissemination Activities																														)
WP 9: Management and Coordination																														)
Project Meetings		X						X							X							X								X
Project deliverables						PR						PR						PR	IR					PR						FR
Final deliverables - Milestones						M						M						M						M						D

IR: interim report  
 FR: final report  
 PR: progress reports for the CORDIS database.  
 D: phase deliverables  
 M: milestones

Milestones are presented in the following table which depicts analytically the project deliverables. Each of the 4 milestones, will include all the deliverables that are completed in the end of the previous month.

Task leader	Partners involved	Project phase	<b>DETAILED SCHEDULE of MILESTONES</b>																													
			Duration of the project (in months)																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<b>PIERIKI</b>	PIERIKI, EZA, WIP, IASA	Phase 1	Systematisation of experiences and knowledge of EZA and PIERIKI																													
			Action agenda for DASU set-up in rural areas																													
			Seminars																													
<b>SODEAN</b>	All	Phase 2	Setting-up and further development of Rural DASU																													
			Elaboration of education materials (brochures)																													
<b>WIP</b>	All	Phase 3	Auditing requirements of the EC Building Directive																													
			Elaborating a building typology																													
			Adapation of simulation tool																													
																pre- consultations and on- site auditing actions																
																Training for energy auditors																
													Quality control of auditing consultancies																			
<b>IASA</b>	All	Phase 4	Defining joint quality criteria																													
			Establish a database of professionals active in the area																													
			Elaboration of educational procedure – methodology for teaching the DASU Partners																													
			Elaboration of regional databases for high quality products and experienced craftsmen																													
			Built-up Rural DASU networks of architects, manufacturer and constructor companies																													
																Regular teaching and Training of DASU Partners																

Task leader	Partners involved	Project phase	<b>DETAILED SCHEDULE of MILESTONES</b>																													
			Duration of the project (in months)																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<b>UOC</b>	All	Phase 5	Definition of service package for local energy management in public buildings																													
			Survey on stakeholders and public building stock in every Rural DASU region																													
			Formulation of a Handbook on energy management of communal buildings in the rural environment																													
																											Training and implementation with relevant administrative staff and housekeepers					
																											Formulation of a ready-to- apply refurbishment plan for two representative public buildings in every Rural DASU Region					
<b>EZA</b>	All	Phase 6	Set up of Internet Homepage																													
			Elaborating a comprehensive media and PR strategy comprising of corporate identity, DASU events and happenings																													
						Training in media work																										
			Implementing of media and PR strategy (PR materials)																													
			Coalitions with regional media, DASU events and happenings																													
<b>UOS</b>	All	Phase 7	Formulation of criteria of success for DASU operation																													
																					Analysis of a cost – benefit ratio for Rural DASU in EU 15 and new member states											
																											Presentation					
<b>IASA</b>	All	Phase 8	Abstracts																													
			Project Presentations																													
			Presentation materials																													
<b>PIRIKI</b>	All	Phase 9	Management and Coordination																													

#### 4.4 Performance indicators

The project coordinator will be responsible for ensuring the achievement of the milestones set for the project and ensuring that all phase deliverables are produced according to the timetable agreed. The proposed milestones are the production of reports and deliverables for each phase and the progress meetings.

Moreover, other indicators for the self-evaluation of the successful application of the proposed actions are:

- to meet the targets set in a previous section for the operation of the regional DASUs and to organize all supplemental and dissemination activities foreseen:
  - number of auditings:50,
  - brochures:4 (1 in each language),
  - training courses:2,
  - twinning activities:2,
  - databases:2,
  - documents-leaflets:10,
  - demonstration events:2,
  - announcements:6
  - reports (incl. phase reports): 18
  - action agendas-docs-studies: 4
  - Information Acquisition Tool: 1
  - Computer Tool: 1
  - Homepage:1
  - Publications in prof. magazines: 2
  - Internet links:2
  - Presentations: 2
- the fulfillment of regional targets that have been set by local partners regarding the impact of the DASUs operation on the regional energy market and building industry, is a long term indicator fore the successful implementation of the project
- the continuous operation of DASU after the project's conclusion and the financial self sustainability of the units
- the replication of the proposed methodology by other regions in Europe

The quality of the transnational co-operation will be assured as explained below. Transnational cooperation is aimed at keeping all participants fully informed about the status of the project at all levels. Effective communications between participants is seen as essential for the success of the project. The assessment of the quality of the transnational cooperation will be achieved by the proper communication strategy. This strategy will be to secure contact and maintain communication with the local actors involved in the progress. Other possible end users of the project information such as Standards Committees, Professional Institutions (for Building Services Engineers) and research bodies will be included in the communications network, both through the project network and through reports and papers in professional journals, conferences.

The Commission will be able judge if the action has been successful by achieving the milestones set for the project and ensuring that all phase deliverables are produced according to the timetable agreed. In addition, the milestones set for the project is part of the dissemination policy during the project duration. Thus, the judgment of the dissemination plan can be performed easily.