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Titel: INTERREG: ENERgy Efficiency and Renewable Energies in the BUILDing Sector in the Alpine Space

Kurzbeschreibung

Auf Grund der steigenden Energiepreise und der Klimaveränderung kommt den energieeffizienten und Energie produzierenden Gebäuden (lokale Energieproduktion) eine große Bedeutung zu. Viele Kleine und Mittlere Unternehmen sowie Dienstleistungseinrichtungen haben im Alpenraum diesbezüglich besonderes Know-how erworben. Ungeachtet dessen gibt es einige Hürden um die Innovation, die Weiterentwicklung und die Verbreitung am Markt zu beschleunigen. Ein transnationaler Ansatz soll dazu beitragen diese Hürden leichter zu bewältigen. Ziel des Projektes ist es: das öffentliche Bewusstsein für das Thema zu stärken, spezielle Trainingsmaßnahmen für die Betriebe einzurichten, durch Kooperationen das Innovationspotential besser zu erschließen, Methoden zur Ökologisierung am Bau zu verbreiten, spezifische Studien durchzuführen und die Energieproduzenten durch ein Monitoring-System in der Effizienz zu unterstützen. Darüber hinaus sollen an einzelnen Beispielen vorbildliche Planungen durchgeführt werden.

Mit dem Projekt soll die Stärke der KMU's im Alpenraum (lokale Kleinunternehmen, hohe Qualität am Bau, hohe architektonischer Anspruch) weiter ausgebaut, der Substanzwert, speziell im ländlichen Raum und in Tourismusgebieten nachhaltig erhöht werden.

Transnationale Projektpartner: Österreich (3), Frankreich (1), Deutschland (1), Italien (2), Slowenien (1), Liechtenstein (1), Schweiz (1).

Projektpartner Vorarlberg: Energieinstitut, WISTO, Umweltverband, IBO, Waldverband, Qualitätsgemeinschaft Holz, Innung Holzbau, Arge Erneuerbare Energie

Das Projekt soll im Zeitraum von 2008 bis 2011 umgesetzt werden.

Übergeordnetes Projektziel:

Wettbewerbsfähigkeit und Attraktivität des Alpenraumes erhalten

Arbeitspakete

Allgemein |

Projektträger

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Ausgangslage

Due to the harsh climate in the Alps traditional buildings in this region face a particularly high demand for energy. Steadily rising energy prices have a strong impact on the cost of living in the Alps and lead to a major outflow of financial resources.

Furthermore, climate change has made energy efficiency and the use of renewable energies an urgent imperative for the European Union. A considerable number of SMEs and research and training institutions in the Alps have developed specialized know-how and experience with buildings that are energy self-sufficient. These SMEs and institutions now represent the basis for further growth, job creation and promising innovations. Nevertheless, several critical barriers exist to fully exploit the endogenous potentials of this economic sector. The most important are:

- insufficient cooperation and knowledge exchange between regions, experts, R&TD centres and SMEs in the Alpine space;
- lack of adequate structures for SME innovation efforts, cluster generation and network activities;
- lack of public awareness and trust in the quality and performance of energy efficient and energy producing buildings;
- lack of sufficiently trained and skilled human resources;
- missing comparability of quality labels and insufficient quality controls for energy efficient buildings;
- missing alpine wide tested and accepted evaluation tools and methods for energy efficient buildings;
- inadequate investment conditions in buildings using natural assets (wind, solar, water) for energy production

By working to ease these barriers ENERBUILD will contribute to position the alpine space as an area of excellence for energy self-sufficient buildings. The added value of the project consists in increasing the competitiveness and attractiveness of the Alps as an area to live and work and as a destination for leisure through public and private buildings that are energy self-sufficient and which offer high standards of living quality.

Ziele

ENERBUILD is closely linked to the objectives of the Lisbon and Gothenburg agenda and the Alpine Space Programme. The main objectives of the project are to foster appropriate environments and SME innovation and cooperation capacities with respect to energy saving and producing buildings in the Alpine Space area. These objectives will contribute to SME growth, job creation and sustainable development as well as a more balanced territorial development. ENERBUILD wants to capitalise on existing potentials and deliver concrete results for the organisations and regions involved in the project. Specifically the objectives of ENERBUILD intend to ease the barriers for development identified in 3.1 as follows:

- improve SME innovation capacity through transfer of environmentally friendly technologies and cooperation between R&TD centres and SMEs;
- promote SME cooperation capacity and cluster generation;
- foster appropriate environments for SME development by through increased public interest in energy saving and producing buildings buildings by means of information material, public events and pilot initiatives;
- strengthen quality and performance of energy efficient buildings through better comparability of quality labels and improved evaluation tools/methods and quality controls;
- facilitate know-how transfer and training of human resources through specialized courses, vocational trainings, teaching materials and excursions;
- improve general conditions for investment in energy producing buildings through studies on the solar energy potential of buildings and the promotion of solar roof stock exchanges, eco-power stock exchange and other innovative models;
- strengthening value-added chains for energy efficient buildings based on the principle of nearness through the promotion of SME networks;

A transnational approach is important to overcome regional barriers for the development of energy efficient and energy producing buildings by finding common solutions for common problems. The level of know-how and experience with regards to energy efficient and energy producing buildings is different in the participating regions. This offers a great potential for transnational cooperation to reduce disparities between regions and to enhance a balanced development of energy efficient and energy producing buildings in the Alpine Space. A transnational approach helps to achieve a critical mass for the promotion of

common standards, evaluation instruments and quality controls for energy efficient buildings and contributes to sustainable solutions in this field. Furthermore, a transnational approach promotes economies of scale for SMEs and regional clusters and creates important synergies, for example by collectively developing training courses, information material or public events.

Inhalte

The methodological approach of ENERBUILD is oriented towards achieving concrete results for the partners. The transnational project partners work closely with local project partners, for example associations of SMEs and regional government bodies to make sure that the project responds to the needs of the local partners. A kick-off meeting with all project partners will fine tune the ENERBUILD project activities. A specific phase of transnational needs analysis is then foreseen in WP4 and WP6 to determine the most promising areas for transnational cooperation and know-how transfer. Each action within a WP will have a partner responsible for it, which will be selected on the basis of his experience. This will assure that the specific activities executed by each project partner will benefit from the best available knowledge. In order to create new knowledge and innovation ENERBUILD will carry out pilot initiatives and innovation workshops with research institutions and SMEs.

Erwartete Ergebnisse

A central result from ENERBUILD will be specialized training programs in the field of energy efficient and energy producing buildings for apprentices, journeymen, foremen, students and architects. Specific training modules will be developed and integrated in the curricula of at least 3 universities. On the regional level trainings for foremen and executives will be offered. A special training program for apprentices will be developed and executed on a transnational level. A total of at least 400 SMEs will be involved in the aforementioned training programmes. The public awareness for energy efficient and energy producing buildings will be increased. This will be achieved through events and the proliferation of methods for the assessment, planning and construction of this kind of buildings. At least five major construction projects will be supported in the planning process which shall serve as showcases for ecological, energy efficient and energy producing buildings.

Quality labels for energy efficient buildings will be strengthened and evaluation instruments and quality controls for energy efficient buildings improved. General conditions for investment in energy producing buildings will be improved through the analysis of the energy producing potential of buildings, roof stock exchanges and the financing instrument "sun loan". SME innovation and cooperation capacity will be increased through innovation workshops and public competitions.

SMEs will use the access to R&TD to innovate. Improved quality controls and standards for energy efficient buildings will be used by SMEs to capitalise on economies of scale, to acquire new customers and to enter new markets. Architects and builders will benefit from the availability of trainings and the access to specialized knowledge and experience for the construction of energy efficient and energy producing buildings. Public administration will use manuals and methods developed by the project for the evaluation of the energy efficiency of buildings and for decisions on financial support for builders. Building owners will have a financial incentive to equip their buildings with solar panels, as they will be able to sell electricity and roof space through the solar roof stock exchange. Developers will use local service structures set up through ENERBUILD. The NENA network will benefit from public events and become a durable cooperation network between diverse actors in the Alps.

Bezug zum Programm

EU-ALPINESPACE-PROGRAMM:

By promoting an enabling environment for energy efficient and energy producing buildings the main objectives of the project are fully consistent with the programme priority of increasing competitiveness and attractiveness of the Alpine space. The market for this kind of buildings is an emerging sector at transnational level in the Alpine space where some regions already have considerable strengths. It is a market that offers great growth potential for SMEs located in rural areas. By promoting an enabling environment across the Alpine space, the project helps SMEs to achieve critical mass and strengthens their innovation capabilities. Furthermore, by reducing the energy need of buildings and by promoting the production and use of renewable energy the project also has positive environmental effects, especially with regards to climate change and promotes resource efficiency as called for by the Alpine space programme.

ENERBUILD will use the results and experiences of the NENA Interreg IIIB project. Specifically ENERBUILD will take up the following results of NENA:

- Model for the evaluation of public buildings
- Concept and pilot application of eco-power stock exchange
- Concept and financing models for roof stock exchange
- DVD of Passivhaus seminar
- Master course timber construction developed by FH Rosenheim
- Training modules for young timber professionals
- The NENA network and internet platform

Anmerkung

Projektsteckbrief: ENERBUILD

Gesamtbudget: € 2.850.000

ERDF Mittel: € 3.141.500

Budget Vorarlberg: € 638.100

ERDF: € 484.956

Land Vorarlberg: €153.144

Ergänzende Informationen

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Budget

Firma	Personal	Betrieb	Reise	Drittleistung	Investitionen
Regionalentwicklung GmbH	5.000,00	64.100,00	0,00	569.000,00	0,00
Gesamtbudget Netto:	638.100,00				