Università
Ca'Foscari
Venezia

**TITOLO PROGETTO: INSPIRE - Development of Systemic Packages for Deep Energy Renovation of Residential and Tertiary Buildings including Envelope and Systems**

**PROGRAMMA DI FINANZIAMENTO: VII PROGRAMMA QUADRO**
**BANDO: FP7- EeB.NMP.2012-2**

**REFERENTE SCIENTIFICO: Prof.ssa Irene Poli**
**STRUTTURA: ECLT - CENTRO EUROPEO INTERUNIVERSITARIO DI RICERCA**

**DATI FINANZIARI:**

| Costo Complessivo del Progetto | Finanziamento Europeo Complessivo Assegnato |
|---|---|
| € 10 829 871 | € 7 499 998 |

**SINTESI PROGETTO:**

Most of the energy consumption in Europe is due to heating and cooling used for domestic, tertiary and industrial purposes; This energy is largely produced by directly burning fossil fuels with a negative environmental impact. RES directive and the SET Plan focuses its attention on the use of RES to drive systems for heating and cooling in order to reduce greenhouse gas emissions and the dependence on energy import, and to reach the 20/20/20 target. For this reason the European Unions energy policy gives high priority to energy savings and use of renewable energy sources. The project iNSPiRe aims at conceiving, developing and demonstrating Systemic Renovation Packages, through the innovative integration of envelope technologies, energy generation (including RES integration), energy distribution, lighting and comfort management systems into deep energy renovation of buildings, both in the residential and tertiary sectors. During the project Multifunctional Industrialized Renovation Kits will be developed, manufactured and installed at three Demo Case Studies. The optimal integration of such systems will lead to major cumulative energy savings with respect to consumption prior to renovation (therefore to extreme reductions of the CO2 emissions), assuring at the same time enhanced users comfort conditions. The final target of the systemic renovation packages will be to reach an overall Primary Energy consumption of the building lower than 50 kWh/m²/year. The project iNSPiRe triggers a scenario of fast decarbonization, by promoting the transition of the construction sector to a fully industrial phase, hence optimizing the materials utilization and manufacturing/installation/maintenance/ dismantling processes. The exploitation of the project results will make available on the market reliable and cost-effective products, suitable for the deep energy renovation of existing buildings, fostering the connection between construction and industry sectors, and creating new jobs.

| Inizio Attività (previsione) | Fine Attività (previsione) |
|---|---|
| 01/10/2012 | 30/09/2016 |

## PARTENARIATO

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|---|---|---|---|
| 1 | ACCADEMIA EUROPEA PER LA RICERCA APPLICATA ED IL PERFEZIONAMENTO PROFESSIONALE BOLZANO (ACCADEMIA EUROPEA BOLZANO) | Italia | Coordinatore |
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