

The POLYCITY project

POLYCITY, funded by the EU-programme Concerto, focuses on large scale urban developments where living and working areas are integrated to result in sustainable city quarters with short distances and low transport energy consumption. The project will handle different aspects of urban conversion in three different European locations: new constructions on sites with little development on the outskirts of Barcelona, the conversion of an old city quarter in Torino and a mixture of rehabilitation and new construction on a large former military ground near Stuttgart.

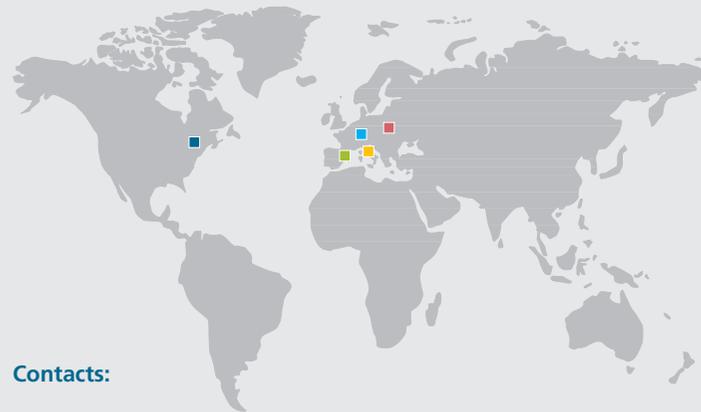


Each project is embedded in a network of regional partners and other observer communities, which will guarantee an effective utilisation of the results.

POLYCITY is flanked by an Eastern European and a Western Canadian network of cities and communities that wish to share in the experiences and results of POLYCITY. Special training workshops will be developed in order to provide the necessary information to communities wishing to participate in this programme.

www.polycity.net

The goal of the project, which will be carried out until the year 2010, is the reduction of fossil fuel consumption through energy efficient buildings and an increased use of renewable energies. The scientific research in the project focuses on energy management innovations using simulation tools for online optimisation of renewable energy plants and for sustainable building operation.



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POLYCITY

The German Scharnhäuser Park Project

The German project Scharnhäuser Park is an urban conversion and development area for 10,000 people and 2,500 work places that covers an area of 150 ha in the community of Ostfildern on the southern border of Stuttgart. The project as a whole is designed to be an exemplary, ecological, community development project, in which low energy building standards are prescribed for all plots. A wood-fired ORC co-generation plant delivers electricity and heating energy. Thermal cooling will be an innovative feature of the project. A new public transport tramline connects the development area with Stuttgart's city centre. The combination of work places, residential areas and public parks leads to an integrated living and transportation concept with high comfort and low energy consumption.



The project partners

- Zentrum für angewandte Forschung an Fachhochschulen Nachhaltige Energietechnik, Hochschule für Technik Stuttgart
- Steinbeis Europa Zentrum, Stuttgart
- Stadt Ostfildern
- Siedlungswerk Stuttgart GmbH
- Stadtwerke Esslingen
- Wirtschaftsförderung Region Stuttgart GmbH
- Institut für Energiewirtschaft und Rationelle Energieanwendung, Universität Stuttgart



The Italian Arquata Project

The Italian project is part of a wider project – Contratto di Quartiere di via Arquata – realized by the city of Torino, which aims to the physical and social requalification of the whole district of residential council buildings and to the creation of a modern co-generation plant. The Arquata district comprises 30 residential council houses and one high-rise commercial building. The application project adds further measures to the ongoing initiatives of refurbishment of the council buildings and social requalification. Additional thermal insulation, 1,500 m² of photovoltaic modules, high efficiency lighting and tri-generation will be added. The monitoring and planning of all energy flows in the district will be performed through telematic controls and an optimisation software. The initiative involves the relevant stakeholders in the regional area, such as public administrations, utilities, research centres and end-users. A socio-economic analysis will be performed to assess the impact of the requalification on citizens and to involve them in the project.



The project partners

- Agenzia Territoriale per la Casa della Provincia di Torino
- Azienda Energetica Metropolitana di Torino
- Centro Ricerche Fiat, Torino
- Politecnico di Torino
- Comune di Torino



The Spanish Cerdanyola del Vallès Project

The Catalunyan project focuses on a large urban development for 50,000 inhabitants in the community of Cerdanyola del Vallès, a city located in the outskirts of Barcelona. Almost two million square meters of buildings will be constructed within the next decade. Ecobuildings for residential, industrial and services will be built following a common basis of innovative sustainable construction. Industrial and services buildings will be supplied with a very innovative energy system: a district heating and cooling network which includes innovative features such as biomass and gas co-generation, 2,000 m² solar thermal collectors and thermal cooling technologies.



The project partners

- Consorci Urbanistic del Centre Direccional de Cerdanyola del Vallès
- Departament de Medi Ambient i Habitatge, Generalitat de Catalunya
- Institut Català d'Energia
- Centre d'Innovació Tecnològica en Revalorització Energètica i Refrigeració, Universitat Rovira i Virgili
- Fundació Privada Institut Ildefons Cerdà

