



Initiative für intelligente, urbane Regionen
powered by Klima- und Energiefonds

Smart Future Graz

Smart City Project Graz Centre

„Smart Cities“ require both new (energy) technologies as much as a change in paradigms in the understanding of town planning and developing. Counting to the central challenges for the realisation of future compatible cities, apart from the integration of technological areas, is also to have the acceptance by the local inhabitants and relevant players (involvement of multi-stakeholders), an inter-divisional/cross-disciplinary process management („smart governance“), as well as innovative financing measures for urban (infrastructure).

The starting situation for the „Smart City Project Graz Centre“ is exceptionally good. Players in the areas of energy research have developed new energy technologies in forerunning projects, that are ready to change into the demonstration status. In the forerunner project „I LIVE GRAZ“ within the framework of the first tender of the programme „Smart Energy Demo – FIT for SET“ the basis for the existing lead project has been established with the compilation of sustainable development strategies; the municipal council of the city of Graz has secured a financing agreement covering several years.

Goal: Zero Emission

„Smart City Project Graz Mitte“ is a project for demonstrating urban technologies that use renewable energy sources and simultaneously it is a spatially integrated, networked city development project that is located in a currently heterogeneous city district close to the Graz main station, having various uses.

The goal is the innovative implementation of these technologies to achieve a sustainable, liveable and intelligent city district with the lowest possible emissions (Zero Emissions as the target) and a low level of resource usage, that not only uses sustainable energies but is also targeted at sustainable mobility and social blending.

Project contents

Demonstration and testing of technological components:

- □new solar module („Grätzel-Zelle“)
- □solar cooling
- □integrated facade technologies
- □Mini-BHKW
- □smart heating grids
- □Strategy- and measurement concepts for sustainable urban mobility including E-Mobility and multi-modal mobility offer

Integration of these technological components during the course of realising concrete demonstrative building projects and district concepts e.g.

- □local energy centres incl. energy management and energy -Intra/Extranet
- □Pilot facilities „Grätzel-Zelle“
- □energetic integration of an existing concert hall (Helmut-List Halle)
- □Construction of a research tower with new integrated building technologies

from the holistic perspective and makes it visible, malleable and perceptible for all relevant stakeholders and citizens, e.g.

- through a district management as turntable for information, networking and participation
 - ☐regular citizen information and concrete participation offer
 - ☐urban planning quality guidelines for future investors
 - ☐awareness measures (e.g. about Smart City coaching-approach)
 - ☐Installation of an internet based platform for future users of the development of innovative financing models, scientific accompaniment and evaluation, as well as the regular exchange of experiences with those involved and cooperating national and international partner cities, count towards further cornerstones of the project.

Aspired results

- ☐(as far as possible) Implementation of the individual planned demonstration projects as the basis of the sustainable city districts
- ☐Appropriation and securing of the financing for further construction phases
- ☐new insights and models for integrated and holistic city planning and development procedures that are transferrable and useable in other city districts of the target area.

Project-basic data

Project category	Leading project
Planned term	60 Months
Approved sponsorship (maximum)	€ 4,192,324.--

Consortium leaders

City of Graz /City building department

Consortium

Energie Steiermark AG

Holding Graz – Kommunale Dienstleistungen GmbH

DI Markus Pernthaler Architekt ZT GmbH

Forschungszentrum für integrales Bauwesen AG

SFL technologies

AVL List GmbH

Alfen Consult GmbH

Energie Graz

SOT Süd-Ost Treuhand Gesellschaft m.b.H.

ECO World Styria

StadtLABOR Graz

Technische Universität Graz

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