



D6.1: Dissemination and exploitation of project results (version 1)

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Abstract.

IST EU STREP project FP7-258888 – GREENERBUILDINGS

Deliverable D6.1 – This document describes the initial GREENERBUILDINGS dissemination and exploitation plan results.

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Changes

Version	Date	Author	Changes
0.1	20.02.2011	ADV	Document creation
0.9	28.02.2011	ADV	Updates on foreseen dissemination activities
1.0	28.02.2011	TUE	Final edited version submitted to the European Commission, to be considered for project reviewing.

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Chapter 1

Introduction

The objective of the GREENERBUILDINGS Project Exploitation and Dissemination Plan is twofold. It will be used to identify and organize the activities to be performed in order to promote both commercial exploitation of the project's results and the widest dissemination of knowledge from the project. The plan is expanded in two directions: towards the marketing activities in order to enhance the commercial potential of the system and towards the notification of project's results in the scientific and industrial sectors involved.

This first version plan attempts to introduce the foreseen dissemination activities, including the publication of papers, conference presentations, demonstrations, meetings with industrial representatives, and publication of newsletters and website.

It is foreseen to release two other versions of this deliverable, in month 26 and month 36 where the project exploitation strategy will be elaborated.

The activities included in this deliverable, will consider task 6.1: Dissemination and Exploitation of project results.

Chapter 2

Overall dissemination strategy

The main objective of this plan is to make stakeholders aware of the project results. This will be achieved through the development and deployment of an awareness and dissemination plan, which will establish messages, target audiences, and dissemination means. This will be carried out by using various communication materials, but also face to face information at congresses, conferences, symposia and workshops. The information will also meet the general public through media coverage.

According to Harmsworth [HT00], the term dissemination can be best described as delivering and receiving of a message, the engagement of an individual in a process and the transfer of a process or a product.

The results and experiences of development projects are meaningful only, if they are introduced into use and lead to functional changes. Dissemination is generally seen as a measure, through which the results are brought into the awareness of certain groups.

Dissemination can be seen to have three main purposes [HT00]:

1. **Dissemination for awareness.** Audiences are made aware of the development, innovation, deliverables, and project details.
2. **Dissemination for understanding.** The audience is provided with more detail about the development and are perceived as beneficiaries. In this case audiences are often targeted.
3. **Dissemination for action.** *“Refers to a change of practice resulting from the adoption of products, materials or approaches offered by the project. These groups/audiences will be those people that are in a position to influence and bring about change within their organizations. These are the groups/audiences that will need to be equipped with the right skills, knowledge and understanding of the work performed in order to achieve real change”.*

Therefore, several steps must be taken in order to achieve an effective dissemination

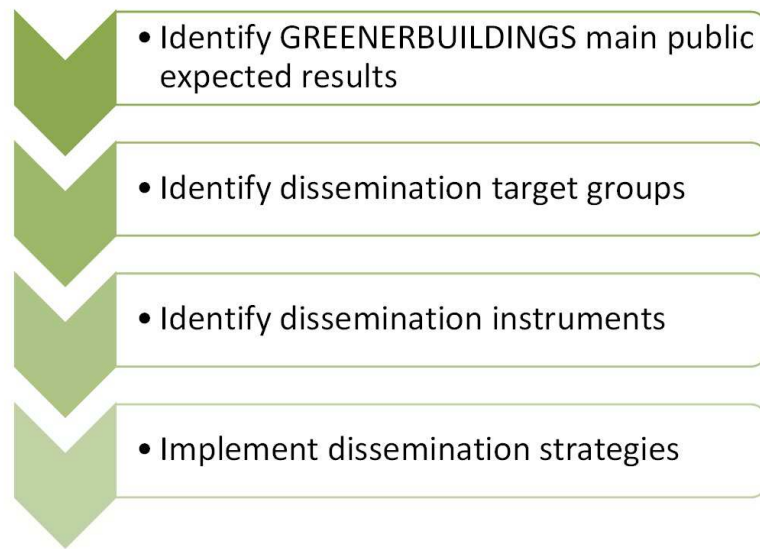


Figure 2.1: Steps towards awareness and dissemination plan

strategy, which will raise awareness and deeper understanding of the work of GREENER-BUILDINGS and will lead to actions based on this effort.

Chapter 3

Main public results

The main outcomes of GREENERBUILDINGS will become available through a group of public and restricted deliverables agreed with the European Commission in the Description of Work.

Nr	Title	Month of delivery	Content
D1.1a	State of the art review on energy-aware adaptation.	6	Presents the state of the art review of GREENERBUILDINGS regarding initiatives, techniques, and standards with a related focus to GREENERBUILDINGS.
D1.1b	Considered use cases report.	6	Describes the scope and considerations for selecting living-lab facilities in GREENERBUILDINGS.
D1.2	Technical requirement analysis report and interconnection to smart grid.	6	Presents the technical requirements of the system, as well as discusses possible interconnections to smart grid.
D1.3	User requirement analysis report	9	Details the user-centric approach for requirements elicitation from end-users in the project's target application areas.
D2.1	Energy-aware framework architecture document	18 (v1), 30 (v2)	Describes the GREENERBUILDINGS framework architecture for the energy-aware building adaptations.
D2.2	Service composition document	18 (v1), 30 (v2)	Describes the services composition component of the GREENERBUILDINGS framework.

D2.3	Smart grid interface and building interconnection document.	18	Elaborates the foreseen interconnection of the GREENERBUILDINGS framework with the smart grid and the in-building networking.
D3.1	Building-distributed processing architecture design and implementation report.	15 (case-studies), 30 (final validation)	Details a scalable distributed system architecture that can be flexibly implemented in buildings and provides means for sensing, processing, communication, and interfaces to actuation functionalities.
D3.2	Ubiquitous sensor design and embedding, and algorithms for behaviour and context inference design and implementation report.	18 (case-studies), 30 (final validation)	Describes algorithms for monitoring and inference of occupant behaviour and further building context components from distributed sensors and processing resources.
D3.3	Building context and energy state inference algorithms design and implementation report.	20 (case-studies), 30 (final validation)	Describes context and energy state inference algorithms based on results from the living-lab installations.
D4.1	Report on thermodynamic sensor positioning analysis and guidelines.	9	Reports the thermodynamic sensor positioning analysis and describes guidelines for the installation in the living-lab buildings.
D4.2	Thermodynamic building simulation results report.	30	Describes the thermodynamic building CFD simulation approach and results.
D4.3	Results report on occupant behaviour pattern simulation.	18	Reports the occupant and adaptation simulation concept based on activity and behaviour models and actuation rules.
D5.1	Living-lab case studies and system validation report.	26 (first system validation), 36 (final system validation)	Reports results of the living-lab case studies and validations.

D5.2	Usability and occupant experience evaluation report.	26 (first system validation), 36 (final system validation)	Reports results of the usability and occupant experience evaluations.
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Chapter 4

Dissemination target groups

4.1 GREENERBUILDINGS Special Interest Group

As stated in the DOW document, an adaptive building alliance of potential users and interested parties will be built up, in order to bring together all the different stakeholders. A database will be established to provide a list of key international and European organisations and national bodies with a strong international profile related to building technologies.

In addition, it is envisaged that the project partners would disseminate findings to their national contacts that would then carry on with local information (also in national languages). This will be facilitated through centrally developed inventories and overviews. The main stakeholders will represent the following profiles:

- Architects Associations.
- Construction companies associations and related research associations should be aware of the new technologies that will be installed in new and existing buildings.
- Public and private real estate Promoters.
- Electrical Grid operators/energy services companies (ESCOs). These may act as a channel for offering and billing services and/or access devices to users, such as Eurelectric (Union of the electricity industry).
- Energy Management Agencies. Regional and/or national energy agencies are promoting efficient and innovative building-related energy technologies in building normally fund projects regarding energy efficiency and integration of RES. Examples include the OPET Network, and IEA (International Energy Agency).
- Clients and users (citizens): key actors interested in cooperative working systems or applications providing their perspectives in the formulation and assessment of

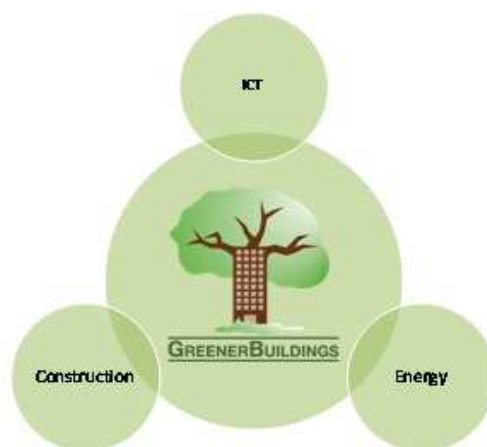


Figure 4.1: GREENERBUILDINGS dissemination target groups

the project results in aspects such as, design for all, adaptability for the future and value procurement through and new business models, such as Euroconsumers.

- **Standardisation bodies.** International standardisation organisations such as CEN/Cenelec/ETSI/ IEEE, etc. and national ones such as AENOR, DIN, SFS, UNI, NEN they develop and establish product and/or process standards to be followed by platform producers and application developers. In this regard, the GREENERBUILDINGS partner ADV has become member of the standardization committee ISO/IEC JTC 1/WG 7: Working Group on Sensor Networks.
- **Local authorities and national/regional public bodies** are key players as policy makers, favourable legislative framework creation, and public procurement. Owners and promoters of their own buildings are also end users interested in cooperative working systems or applications.
- **Certification entities.** Potential certification entities include EEPCA (Professional Association of the European Certification Bodies), EECC (The European Certification Council), and others.

During the first 6 months of project execution, a first version of the identified potential members of the GREENERBUILDINGS Special Interest Group was elaborated as shown in Annex A of this document. Electronic material will be disseminated among this initial list of GREENERBUILDINGS SIG members.

4.2 Activities in EU-funded support actions

In addition, the GREENERBUILDINGS consortium has become external advisor of two European Funded Coordinated and Support Actions through the involvement of one of its member:

- REViSITE [REV]: Roadmap Enabling Vision and Strategy for ICT-enabled Energy Efficiency.
- ICT 4 E2B Forum [ICT]: European stakeholders' forum crossing value and innovation chains to explore needs, challenges and opportunities in further research and integration of ICT systems for energy efficiency in buildings.

REViSITE aims at contributing to the formation of a European multidisciplinary 'ICT for energy-efficiency' research community by bringing together the ICT community and four important and complementary application sectors: smart grids, smart buildings, smart manufacturing, and smart lighting.

The objectives of REViSITE are to:

1. Establish communication between sectoral ICT4EE communities in the four key industrial domains.
2. Develop causal models on the impacts of ICT on energy efficiency and apply this methodology for identifying high-impact RTD priorities.
3. Develop a cross-sectorial RTD roadmap by identifying and harmonising common topics.
4. Promote interoperability and standards.

ICT 4 E2B Forum aims at bringing together all relevant stakeholders involved in ICT systems and solutions for energy efficiency in buildings. It further aims at identifying and reviewing the needs in terms of research and systems integration as well as at accelerating implementation and take-up.

ICT 4 E2B Forum intends to promote, through community building activities, a better understanding, a closer dialogue, and a more active cooperation between researchers, end-users/practitioners, building owners, technology-suppliers, and software developers. This will be done with regard to the use of ICT to support informed decision-making (both human and automated) in the current delivery and use of sustainable and energy-efficient buildings and districts.

In summary, the ICT4E2B Forum project aims at the following objectives:

1. Bring together relevant stakeholders to identify and review the needs in terms of research and systems integration.

2. Update the REEB research roadmap.
3. Promote the use and further development of ICT for improved energy efficiency of buildings.

Consequently, these two groups will become relevant interested parties in GREENER-BUILDINGS project result. The GREENERBUILDINGS consortium has joined the ICT4E2B Forum LinkedIn group, which currently has more than 60 members.

Chapter 5

Dissemination instruments

5.1 Communication methods

Several communication methods that will support the dissemination goals of GREENER-BUILDINGS have been identified. These are the following:

- Project website. The website provides through the Internet browsable information repository. It provides static information on GREENERBUILDINGS objectives and approach, as well as dynamic content on news and events.
- Development of promotional material. Material can be disseminated in public events, such as fairs and conferences.
- Newsletters. Regular newsletters allow to communicate the project's progress among the GREENERBUILDINGS SIG.
- Presentations at conferences.
- Direct mailing and direct personal contact.
- Press release. EU Policy Press and/or general press.
- Interview with journalists.
- Distribute paper format of WP reports.
- Organisation of meetings and hearings.
- Training and educational sessions.

5.2 Website

The website of GREENERBUILDINGS is available under the following URL address: <http://www.greenerbuildings.eu>. It provides public access to general information of the project such as the project objectives, scope, and publications, and also provides private access to the consortium for the exchange of confidential information between the partners.

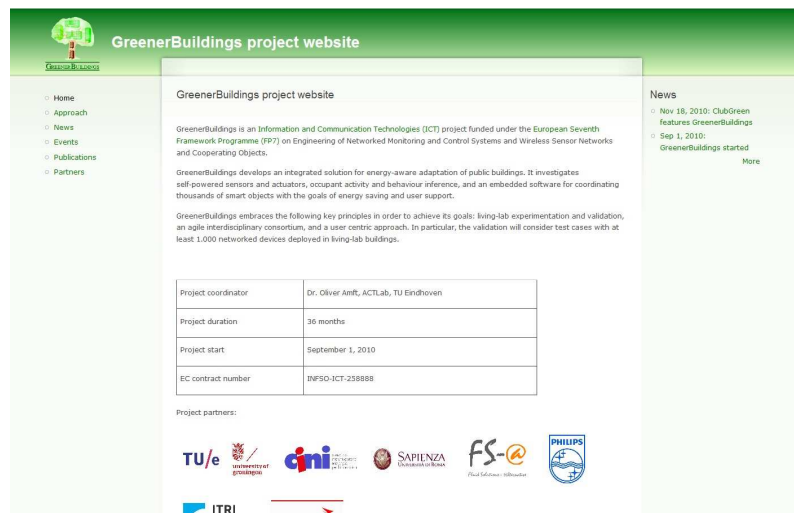


Figure 5.1: View of the website frontpage.

The GREENERBUILDINGS website includes the following sections:

- Home: it brings a general overview of the project scope and information regarding partners involved
- Approach: it gives details about the project objectives and the vision behind the GREENERBUILDINGS view.
- News: all the related information about milestones achievements will be included here.
- Events: consortium will keep up to date this web page, including information about new conferences, workshops or any other event related to GreenerBuildings topic.
- Publications: papers and other published material will be uploaded to this page.
- Partners: it summarizes the consortium members expertise and background.

5.3 Project fiche

Promotional material such the project fiche has been developed for a better dissemination of the project in seminars and scientific meetings.

RESEARCH
Embedded Systems Design

GreenerBuildings


An ubiquitous embedded systems framework for energy-aware buildings using activity and context knowledge

GREENERBUILDINGS develops an integrated solution for energy-aware adaptation of public buildings. It investigates self-powered sensors and actuators, occupant activity and behaviour inference, and an embedded software for coordinating thousands of smart objects with the goals of energy saving and user support.

KEYWORDS: activity recognition, distributed control systems, ubiquitous computing.

At A Glance: GreenerBuildings

Acronym An ubiquitous embedded systems framework for energy-aware buildings using activity and context knowledge



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Duration: 36 months
Start: 2010.09.01
Total Cost: € 2.261'190
EC Contribution: € 1'849'791
Contract Number: INFSo-ICT-258888

Main Objectives

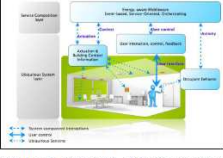
Buildings account for more than 40% of energy consumption and are the largest CO₂ producers in many world regions. Thus, making efficient use of energy in buildings is paramount to conserve energy and reduce greenhouse effects. To date, automated control and adaptation in buildings is often limited to occupant commodity changes of indoor climate depending on room temperature, CO₂, and lights operated through motion detectors. GREENERBUILDINGS aims to realise an integrated solution that addresses the challenge of energy-aware adaptation from basic (energy harvesting) sensors and actuators, up to an embedded software for coordinating thousands of smart objects with the goals of energy saving and user support.

GreenerBuildings will investigate how buildings can dynamically adapt their operations according to actual use, aiming at substantial energy savings.

Our vision is that buildings can respond to their actual use and changes in their environment; interact with their occupants through novel ubiquitous sensing and occupant behaviour inference techniques and that can transparently adapt a building's function and operation. The project embraces the following key principles in order to achieve its goals: (i) living lab experimentation and validation schemes, (ii) an agile cross-domain consortium, (iii) a spiral development model, and (iv) a user centric approach. In particular, the validation will consider test cases with at least 1.000 devices (sensor and actuator nodes) deployed in living lab buildings. Public buildings, such as offices, universities, hotels, and shops will be considered. With its multi-national consortium, the project's outreach will go beyond European borders.

Technical Approach

GREENERBUILDINGS aims at developing an energy-aware framework based on embedded service middleware and a building-distributed architecture of smart objects. The framework relies on advances of ubiquitous ultra-low power sensing, sensor-based human activity recognition, and device orchestration, to guarantee responsiveness, scalability, and dependability in its goal to achieve energy savings at the whole building level. The key to effective energy management in buildings depends on several functions, most notably, low-maintenance activity and building context sensing, robust recognition and sensor-based inference, and the framework's scalability to massively distributed installations. GREENERBUILDINGS addresses these functions in its technical architecture and allows retrofitting all solutions into existing buildings. The GREENERBUILDINGS architecture specifically emphasises occupant activity and behaviour as key element for adaptation, but addresses other building context information as well. The building adaptation concept foreseen in GREENERBUILDINGS follows a layered representation to decouple different abstractions.



Ubiquitous system layer. This layer consists of physical devices, in particular the building-distributed ubiquitous sensing, processing, and actuation architecture of GREENERBUILDINGS. Moreover, it consists of the occupant activity and building context recognition functionalities. These smart objects are physically distributed to support the sensing and actuation tasks. At the same time, nodes interact to perform operational adaptations. Service composition layer. This layer comprises the abstract composition and orchestration functionalities of the energy-aware framework. Services in the GREENERBUILDINGS architecture are dynamically composed to achieve the energy optimisation and user goals, using triggering events and state change information provided by the ubiquitous system layer's sensing nodes and user interactions.

Key Issues

Ambient intelligent environments such as those targeted by GREENERBUILDINGS require ubiquitous sensing nodes that can be conveniently deployed and operated for extended time periods (several years) while requiring minimal or no maintenance effort. Novel effective sensing concepts need to be developed that are cheap when mass-produced, permit rapid installation and, in particular, are not constrained through power supply or battery life. This new class of smart nodes will be investigated and validated through deployments in living-lab buildings. Based on limited and potentially confusing sensor input, relevant knowledge on actual occupant behaviour must be obtained to adapt building installations and appliances. Novel model-based behaviour descriptions and occupant group behaviour estimation algorithms will be investigated and complemented with thermo-dynamic simulations of building spaces. The cooperation among the heterogeneous smart objects and devices will be facilitated and mediated through the distributed framework with the additional constraint of being energy efficient. Besides the evaluation of actual energy-saving potential, which is to date only estimated through coordinated manual trials and simulations, the comfort and convenience for occupants will be assessed.

Expected Impact

Near future buildings will include thousands of cheap sensors, actuators, and smart devices that collaborate with each other in a distributed manner, aiming at increasing the level of comfort and safety of the inhabitants. This trend is growing stronger and opening a number of interesting technological solutions, where energy preservation takes an essential role to realise more efficient buildings. The expected main impact of GREENERBUILDINGS is to develop an infrastructure that is energy-aware and conservatory, while at the same time fully exploit the potentials and advantages of intelligent buildings, with large-scale networks of collaborating, intelligent devices and sensors. Most immediately, GREENERBUILDINGS will realise improvement in the energy-efficient operation and usage costs of individual nodes (local), and an advanced control and cooperation mechanism to reduce the overall consumption (global). In large buildings, centralised control of all operations will be infeasible due to its complexity. However, adaptations of local settings in a room, and global building operations can impact energy consumption. Thus a mixed local and global strategy will be investigated, which will form a founding infrastructure to realise truly greener buildings.

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Figure 5.2: View of the developed project fiche.

5.4 Newsletters and press releases

All partners will participate in the preparation of newsletters (with news and activities) and in press releases.

The newsletters will be distributed among all entities interested in the project's results and a press release will be distributed in both the general and specialized media. The following table shows the foreseen publication schedule:

Newsletter/press release	Date/milestone	Project months covered
Newsletter 0	M1	Kick-off
Newsletter 1	M7	1 – 6
Newsletter 2	M13	7 – 12
Newsletter 3	M19	13 – 18
Newsletter 4	M25	19 – 24
Newsletter 5	M31	25 – 30
Newsletter 6	M36	31 – 36

Chapter 6

Implementation of the dissemination strategy

6.1 Past dissemination activities

During the first six months, GREENERBUILDINGS consortium members have actively participated in different dissemination activities, including interviews, conferences, and scientific publications.

Moreover, different events have been identified as potential opportunities for raising awareness about project results. The following table shows a summary past events at which GREENERBUILDINGS was promoted:

Instrument	Event	Date	Location	Main topics	Audience	Partner
Presentation	WSN&CO Concertation	02/06/10	Brussels, Belgium	General project presentation	Monitoring and control experts	TUE
Presentation	IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing	06/01/10	San Diego, USA	Amft; Adaptive Activity Spotting Based on Event Rates	Ubiquitous computing experts	TUE
Presentation	Philips Research meeting	06/01/10	Eindhoven, NL	Amft; Activity and context recognition: challenges towards truly smart systems	Signal processing experts	TUE
Website	—	01/09/10	—	Public project website launched.	General public	TUE
Publication	Atlantis Ambient and Pervasive Intelligence	Summer 2010	—	Lombriser et al.; Benefits of Dynamically Reconfigurable Activity Recognition in Distributed Sensing Environments	General public	TUE
Presentation	Sino-German Workshop on Wearable Computing	08/01/10	Chendu, China	Amft; Activity and context recognition	Ubiquitous computing experts	TUE
Project flyer	—	Fall 2010	—	General project presentation	General public	TUE
Newspaper	TUE Cursor	Fall 2010	Eindhoven, NL	Newspaper article	TUE	TUE

6. IMPLEMENTATION OF THE DISSEMINATION STRATEGY

Publication	IEEE Pervasive Magazine	01/01/11	—	Amft et al.; Smart Energy Systems (abstracts)	General public	TUE
Presentation	CHI	05/01/11	Vancouver	Flo: concept for energy saving in homes	General public	PRE
Presentation	UbiComp	09/01/11	Beijing	Activity Driven Scenarios for Smart Energy Saving	General public	PRE
Presentation	IEEE EnergyCon	12/01/10	Bahrain	Multi-appliance power disaggregation: An approach to energy monitoring	ICT experts	PRE
Presentation	IEEE International Conference on Pervasive Computing and Communications	03/01/11	Seattle, USA	Degeler and Lazovik; Interpretation of Inconsistencies via Context Consistency Diagrams.	Scientists	RUG
Presentation	Workshop on Service, Energy and Ecosystems (co-located with ICSOC'10),	12/01/10	San Francisco, USA	Pagani and Aiello; Towards a Service-Oriented Energy Market: Current state and trend.	Scientists	RUG
Interview	Magazine	11/01/10	Benelux	Facilitair&Gebouwbeheer magazine	Buildings management experts.	RUG
Interview	Website	10/01/10	The Netherlands	ClubGreen website	Environmental experts	RUG
Presentation	Invited Keynote at the MetaalUnie meeting of the Netherlands	03/01/11	Groningen, NL	Keynote	Building experts	RUG
Poster	Sensor Universe days	24/25-11-2010	Leeuwarden, NL	Poster	Sensor industrials and scientists	RUG
Project flyer	Wireless Sensing in Smart Buildings Conference	02/01/11	Coventry, UK	General project presentation	Sensor industrials and building experts	ADV
Project flyer	European Conference on Wireless Sensor Networks	02/01/11	Bonn, Germany	General project presentation	Scientists	ADV

6.2 Planned dissemination activities

During the next period, the consortium will intensify its dissemination activities in different events. Some of the key conferences where GREENERBUILDINGS project will be present are shown below:

Event	Planned date	Location	Main topics
World Sustainable Building Conference	18 - 21 October, 2011	Helsinki, Finland	It is now considered to be the pre-eminent international conference series on sustainable building and construction. The programme covers a wide range of relevant sustainable construction issues including sustainable strategies for construction, mitigation and adaptation to climate change, performance based building and knowledge management.
ECPM - European Conferences OnProduct And Process Modeling In The Building Industry	2012	Iceland	It brings together the academia, research, construction industry, software and Web developers to the topic of information management in the building and construction industry, in an interval of two years.
IEECB 2012 Commercial buildings	2012	-	It aims to attract property investors, architects, and planners to present and discuss synergies and cooperation in removing existing barriers to energy efficiency.
ICT for Sustainable Homes Conference	Autumn 2011	Nice, France	It aims at providing companies, research laboratories and other organisations involved in ICT based products and services for the home with a key opportunity to meet and network, to be informed of latest developments and find fresh ideas, to identify promising technologies and markets, to find potential partners, to initiate or strengthen projects, etc.

Chapter 7

Conclusions

This deliverable summarizes the initial steps taken towards an effective dissemination and exploitation plan for the research efforts pursued in GREENERBUILDINGS. The report has presented an overall strategy for dissemination actions including:

- the expected results to be disseminated,
- the target groups in the different activity sectors addressed, with a first identification of potential members of the GREENERBUILDINGS SIG,
- the available dissemination instruments,
- the first achievements of implementation of the dissemination strategy and an indication of upcoming events and opportunities for the next period.

Due to the early stage of the project execution phase, only dissemination activities have been carried out regarding the concept and approach of GREENERBUILDINGS. However, it is expected that exploitation strategies, including a market analysis, a competitive assessment and expected barriers for exploitation, and identification of knowledge transfer activities will be included in version 2, which will be published in Month 26.

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Chapter 8

Annex 1. GREENERBUILDINGS Special Interest Group

GREENERBUILDINGS Special Interest Group (SIG) – Potential members

Nr	Type	Organization	Country	Contact person	Contact details ¹
1	Construction companies associations	EUROCONSTRUCT	Austria	Margarete Czerny	Hidden
2	Construction companies associations	EUROCONSTRUCT	Belgium	Jean-Pierre Liebaert	Hidden
3	Construction companies associations	The European Alliance of Companies for Energy Efficiency in Buildings, EUROACE	Belgium		Hidden
4	Architects Associations	ACE	Belgium	Adrian Joyce	Hidden
5	Construction companies associations	EUROACE	Belgium	Amanda Afifi	Hidden
6	Construction companies associations	ENCORD	Belgium	Ger Maas	Hidden
7	Platforms	ECTP	Belgium	Sylvie Corrado	Hidden
8	Platforms	E2B	Belgium		Hidden
9	Public Promoters	CECHODAS	Belgium	Sorcha Edwards	Hidden
10	Clients and users	EDF (European Disability Forum)	Belgium	Carlota Besozzi	Hidden
11	Construction companies associations	EUROCONSTRUCT	Czech Republic	Jan Blahonosvsky	Hidden
12	Construction companies associations	EUROCONSTRUCT	Denmark	Anders Bjerre, Soren Jensen	Hidden
13	Standardisation bodies	CEN (European Committee for Standardization)	EU	Barbara Gatti	Hidden
14	Construction companies associations	EUROCONSTRUCT	Finland	Pekka Pajakkala	Hidden
15	Construction companies associations	EUROCONSTRUCT	France	Patrick de la Morvonnais	Hidden
16	Application developers	Orange	France	Gilles Privat	Hidden
17	Embedded systems suppliers, installers and service providers for energy efficient buildings	Schneider Electric France	France	Francois Bonnard	Hidden

¹Details are hidden due to the public nature of this document.

18	Construction companies associations	EUROCONSTRUCT	Germany	Erich Gluch	Hidden
19	Peripheral equipment producers	Osram	Germany	Franz J. Bernitz	Hidden
20	Hardware producers	SIEMENS	Germany	Peter Ferstl	Hidden
21	Peripheral equipment producers	OSRAM	Germany	Uwe Liess	Hidden
22	Construction companies associations	EUROCONSTRUCT	Hungary	Anna Gaspar	Hidden
23	Construction companies associations	EUROCONSTRUCT	Ireland	Annette Hughes	Hidden
24	Application Developers	Akruu	Ireland	Kevin Quinn	Hidden
25	Construction companies associations	EUROCONSTRUCT	Italy	Antonella Stemperini	Hidden
26	Construction companies associations and related research associations	ICIE (Istituto cooperativo per l'Innovazione)	Italy	Mariella Melchiorri	Hidden
27	Construction companies associations	EUROCONSTRUCT	Norway	Bjorn-Erik Oye	Hidden
28	Construction companies associations	EUROCONSTRUCT	Poland	Mariusz Sochacki	Hidden
29	Construction companies associations	EUROCONSTRUCT	Portugal	Fernando Paes Afonso	Hidden
30	Construction companies associations	EUROCONSTRUCT	Slovak Republic	Vladimir Lenko	Hidden
31	Local Authorities & National/Regional Public Bodies	Agencia provincial de la energia de Burgos	Spain		Hidden
32	Local Authorities & National/Regional Public Bodies	Sociedad de Gestion Energetica de Cantabria	Spain		Hidden
33	Local Authorities & National/Regional Public Bodies	Instituto Catalan de Energia, ICAEN	Spain		Hidden
34	Local Authorities & National/Regional Public Bodies	Fundacion de la Energia de la Comunidad de Madrid, FENERCOM	Spain		Hidden
35	Local Authorities & National/Regional Public Bodies	Instituto Energetico de Galicia, INEGA	Spain		Hidden
36	Local Authorities & National/Regional Public Bodies	Fundacion Axencia Inter-municipal da Enerxia de Vigo	Spain		Hidden
37	Local Authorities & National/Regional Public Bodies	Fundacion Axencia Enerxetica Provincial da Coruna, FAEPAC	Spain		Hidden
38	Local Authorities & National/Regional Public Bodies	Fundacion Asturiana de la Energia, FAEN	Spain		Hidden
39	Local Authorities & National/Regional Public Bodies	Fundacion Agencia Regional de Gestion de la Energia de Murcia, ARGEM	Spain		Hidden
40	Local Authorities & National/Regional Public Bodies	Fundacion Agencia Local de la Energia del Nalon, EnerNalon	Spain		Hidden
41	Local Authorities & National/Regional Public Bodies	Fundacion Tarraco Energia Local	Spain		Hidden
42	Local Authorities & National/Regional Public Bodies	Ente Vasco de la Energia, EVE	Spain		Hidden

8. ANNEX 1. GREENERBUILDINGS SPECIAL INTEREST GROUP

43	Local Authorities & National/Regional Public Bodies	Agencia Valenciana de Energia	Spain		Hidden
44	Local Authorities & National/Regional Public Bodies	Agencia Provincial de la Energia de Toledo	Spain		Hidden
45	Local Authorities & National/Regional Public Bodies	Agencia Provincial de la Energia de Sevilla	Spain		Hidden
46	Local Authorities & National/Regional Public Bodies	Agencia provincial de la Energia de Granada	Spain		Hidden
47	Local Authorities & National/Regional Public Bodies	Sociedad para el Desarrollo Energetico de Andalucia, SODEAN	Spain		Hidden
48	Local Authorities & National/Regional Public Bodies	Instituto para la Diversificacion y el Ahorro Energetico, IDEA	Spain		Hidden
49	Local Authorities & National/Regional Public Bodies	Agencia Provincial de la Energia de Cordoba	Spain		Hidden
50	Local Authorities & National/Regional Public Bodies	Agencia Provincial de la Energia de Cadiz	Spain		Hidden
51	Local Authorities & National/Regional Public Bodies	Agencia Municipal de la Energia de Malaga	Spain		Hidden
52	Local Authorities & National/Regional Public Bodies	Agencia Local Gestora de la Energia de Las Palmas de Gran Canaria	Spain		
53	Local Authorities & National/Regional Public Bodies	Agencia Local Energia de Sevilla	Spain		Hidden
54	Local Authorities & National/Regional Public Bodies	Agencia Local de la Energia y el Cambio Climatico de Murcia	Spain		Hidden
55	Local Authorities & National/Regional Public Bodies	Agencia Local de la energia de Osona	Spain		Hidden
56	Local Authorities & National/Regional Public Bodies	Agencia Insular de Energia de Tenerife	Spain		Hidden
57	Local Authorities & National/Regional Public Bodies	Agencia Extremeña de la Energia	Spain		Hidden
58	Local Authorities & National/Regional Public Bodies	Agencia Energetica Municipal de Pamplona	Spain		Hidden
59	Local Authorities & National/Regional Public Bodies	Agencia Energetica de Vitoria-Gasteiz	Spain		Hidden
60	Local Authorities & National/Regional Public Bodies	Agencia Energetica de la Ribiera	Spain		Hidden
61	Local Authorities & National/Regional Public Bodies	Agencia de Serveis Energetics de Terrasa	Spain		Hidden
62	Local Authorities & National/Regional Public Bodies	Agencia de la Energia de Lleida	Spain		Hidden
63	Local Authorities & National/Regional Public Bodies	Agencia de Gestion Energetica de la Provincia de Jaen, AGENER	Spain		Hidden

64	Local Authorities & National/Regional Public Bodies	Agencia de Gestion de la Energia de Castilla-La Mancha	Spain		Hidden
65	Local Authorities & National/Regional Public Bodies	Agencia de Energia de Gijon	Spain		
66	Local Authorities & National/Regional Public Bodies	Agencia de Energia de Barcelona	Spain		Hidden
67	Local Authorities & National/Regional Public Bodies	Agencia Andaluza de la Energia	Spain		Hidden
68	Construction companies associations	EUROCONSTRUCT	Spain	Josep R. Fontana	Hidden
69	Hardware producers	Circuitos Impresos, S.A. (C.I.S.A.)	Spain	Luciano Calle hernandez	Hidden
70	Hardware producers	Tecnologia y Diseno, S.A.(TEDISA)	Spain	Concepcion Jara	Cjara@tedisa.net
71	Embedded systems suppliers, installers and service providers for energy efficient buildings	Matrix	Spain	jesus santos	Hidden
72	Embedded systems suppliers, installers and service providers for energy efficient buildings	Alava Ingenieros	Spain	Octavio mir	Hidden
73	Certification entities	Cidemco	Spain	Mikel barrado	Hidden
74	Embedded systems suppliers, installers and service providers for energy efficient buildings	Schneider Electric	Spain	Pablo Ruiz-escribano Rodriguez	Hidden
75	Application Developers	Moviquity	Spain	Victor Manuel Moracho	Hidden
76	Peripheral equipment producers	Sayme	Spain	Alfonso Murat	Hidden
77	Peripheral equipment producers	Desetech	Spain	Mario J. Buron	Hidden
78	Public Promoters	AVS (Asociacion Vivienda Social)	Spain	Carlos Astorza	Hidden
79	Public Real Estate Promoters	Visesa	Spain	Alberto Ortiz de Elgea	Hidden
80	Private Real Estate Promoters	CB Richard Ellis	Spain	David Lazaro Rodrigo	Hidden
81	Network Operators	EVE (Ente Vasco de la Energia)	Spain	Jose Ramon Lopez	Hidden
82	Construction companies associations	EUROCONSTRUCT	Sweden	Bengt Hericson	Hidden
83	Construction companies associations	EUROCONSTRUCT	Switzerland	Yngve Abrahamsen	Hidden
84	Construction companies associations	EUROCONSTRUCT	The Netherlands	Oebele Vries	Hidden
85	Energy Management Agencies	EREC	UE/Belgium	Emanuela Giovannetti	Hidden
86	Energy Management Agencies.	ENA (Energy Networks Association)	UK	Jane May	Hidden
87	Energy Management Agencies.	AEP (Association of Electricity Producers)	UK	David Porter	Hidden
88	Construction companies associations	EUROCONSTRUCT	United Kingdom	James Hastings	Hidden
89	Hardware Producers/Application Developers	Curent Technologies	USA	Bruno Zaugg	Hidden