ECO-Life - Sustainable Zero Carbon ECO-Town Developments Improving Quality of Life across EU

Final publishable summary report

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ECO-Life

ECO-LIFE - SUSTAINABLE ZERO CARBON ECO-TOWN DEVELOPMENTS IMPROVING QUALITY OF LIFE ACROSS EU

Final publishable summary report - full duration of project
October 2016

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1 Executive summary

1.1 Project objectives

The ECO-Life project (ECO-Life - Sustainable Zero Carbon ECO-Town Developments Improving Quality of Life across EU) comprises demonstration of ECO-Buildings and large-scale integration of renewable energy sources into energy supplies. These activities are demonstrated in two communities, Høje-Taastrup in Denmark and Kortrijk in Belgium while planning activities has been performed in Birštonas and Palanga in Lithuania.

1.2 Main results of the total project period

The project started in December 2009 and ended in June 2016. In more than six years the partnership across borders carried out sustainable urban development and knowledge sharing in Høje-Taastrup and Kortrijk successfully. The project includes refurbishment of almost 30,000 m² and construction of more than 27.000 m² of new houses of higher energy efficient standards than normal building regulations required. In order to fulfil the objective of developing CO_2 neutral communities as lighthouses for replicable purposes, the project also included installation of renewable energy systems. In total, more than 3,600 kW of photovoltaic systems and 380 kW of heat pumps was installed and complemented by solar thermal systems, energy efficient street lighting, battery chargers for electrical vehicles etc.

Due to financial reasons the partners in Birštonas, Lithuania was terminated in 2013 before any of the demonstrations were even started and the activities was transferred to the remaining communities.

The project has achieved substantially energy savings from demonstration buildings and a remarkable production of from renewable energy systems. In total yearly savings of 1,131 tons CO_2 have been achieved from buildings and more than 2,100 tons CO_2 are displaced yearly by the renewable energy systems.

The average payback time for all the demonstrations in Demark and Belgium is approximately 17 and 24 years respectively on the total investment of more than 40,000,000 million EUR before the EU support, and 12 and 14 year after.

Figure 1: Maps representing the three ECO-Life communities

2 Project details

2.1 Contact persons for the project partners

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2.2 Project participants

24 project partners have participated in the project. Besides the coordinators, the partners have included municipalities, housing companies, energy suppliers, universities and other research institutions. In Table 1 below a full list of the project participants is shown. During the project period a few of the partners have resigned.

Table 1: List of project participants

No.	Participant organisation name	Country	Short name
1 (Coordinator)	COWI A/S	DK	COWI-DK
2	Høje-Taastrup Kommune	DK	MUN-DK
3	Høje-Taastrup Fjernvarme a.m.b.a.	DK	UTIL-DK
4	VEKS I/S	DK	TRANS-DK
5	Teknologisk Institut	DK	RTD-DK
6	Det Grønne Hus - Energitjenesten (SME+NGO)	DK	INFO-DK
7	11CityDesign (SME)	DK	SOC-DK
8	Rockwool A/S	DK	IND-DK
9	AB APTUS Electronik	SE	ITC-SCAN
10	UAB COWI Lituva	LT	BALTIC-LT
11	Birstonas Municipality	LT	MUN-LT
12	Birštonas Šiluma (District Heating Company)	LT	UTIL-LT
13	UAB AVSC group	LT	DEV-LT
14	Lith. Builders Assoc. (SME)	LT	ASSOC-LT
15	Vilnius Gediminas Technical University	LT	UNI-LT
16	Housing and urban development agency	LT	URBAN-LT
17	Kortrijk Municipality	BE	MUN-BE
18	Goedkope Woning (SME)	BE	HOUSE-BE
19	BURO II + VAS (SME)	BE	BURO-BE
20	evr-Architecten (SME)	BE	CONS-BE
21	Ecopower (SME)	BE	UTIL-BE
22	University of Ghent	BE	UNI-BE
23	Palanga Municipality (Observer community)	LT	OBSERV-LT
24	UAB Būsto Idėja (SME)	LT	IDEA-LT

**CO = Coordinator*

2.3 Project website

An effort has been put into maintaining the project website - www.ecolife-project.eu. The number of hits and visits is constantly increasing and in the summer 2016 the total number of hits on the ECO-Life project passed 250 thousand. More than 70.000 were detailed visits, with a maximum during April 2014 of about 113 detailed visits per day!

All dissemination activities until now, including newspapers and TV, are expected to have approached **4.8 million people** since the beginning of the ECO-Life project.

Figure 2: Screen dump from the project website – www.ecolife-project.eu

3 Project content and objectives

3.1 General project objectives

The central theme of the project is the combination of energy efficiency in dwellings combined with maximum use of renewable energy sources and not least the introduction of innovative approaches for the involvement and engagement of the citizens to ensure long-term sustainable development. Project participants regard this as the way to contribute to Europe's goals for a sustainable future. The scientific and technological objectives and ambitious of empowerment of the project are hence to establish the technological and socio-economic basis for and to demonstrate innovative integrated energy concepts on the supply and demand sides of successful zero-carbon communities in Lithuania, Belgium and Denmark.

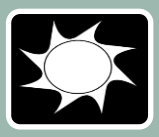
In short, the ECO-Life project objectives were:

- A real and visible impact in the countries, transforming urban areas of a significant size into CO_2 neutral communities. In Lithuania and Belgium, the effort will be the first of its kind, and in Denmark, it will become the most integrated community of its kind. All three communities are pioneers in their field, setting very ambitious goals and will be national showcases for sustainable city development.

- Improvement of quality of life in the three communities in all aspects such as health, exercise, close distance to nature and recreation facilities, sustainable local transport, short distance to public transport, nursing and educational facilities, emphasis on local work places. Also, the use of improved communication technologies, the integration of advanced RES, RUE and polygeneration and communication technologies are important elements.

3.2 Community specific objectives

3.2.1 Høje Taastrup, Denmark



Renewable energy supply (RES)

- 2.634 kWp Photo Voltaic plants (PV)
- 86 m² Combined Solar Thermal and PV
- 3046 m² Solar Thermal
- 233 kW Decentral Heat Pumps
- Wind turbine monitoring

Energy efficiency in buildings (RUE)

- 11.029 m² (10.873 m²)* Class A Refurbishment of Dwellings
- 6.203 m² A+ Institutions
- 3.962 m² A++ Deep refurbishment of munti family dwellings
- 3.665 m² (1.000 m²)* A+ Office building (administration/ service offices)
- 2.276 m² A+, Class 1, New Low Energy Dwellings
- 1.428 m² A++ New Passive Houses
- 1.385 m² Refurbished Institutions

Polygeneration and ground source seasonal storage

- 122.6 kW Polygeneration Cooling
- 15 wells in 120 m depth

Integration of RES and RUE

- Extra RES covers need of the included ECO buildings after improving their energy efficiency by various RUE actions and generates surplus energy for the grids supplying the community
- Improvement of efficiency of DH generation and supply
- Integrated use of a segmented underground seasonal energy storage
- Battery charging of electric cars
- Intelligent 2-way energy metering, information and control equipment
- Use of low-energy street lighting

Specific innovations

- "Whole Town Approach" - involvement of citizens' right from the start to influence the design of the city, including implementation and use of different RUE and RES solutions
- New types of user installations will be tested (first in the flex houses and later on a larger scale) e.g. a new type of DH units, enabling houses to be supplied with very small pipe dimensions with a constant tiny flow, leading to very low energy pipe losses avoiding daily fluctuations
- A new type of smart metering, control and information systems (further development of APTUS and/or Housekeeper units). Improved control and management of heating, ventilation, air conditioning, lighting, and other devices, as well as the use of new / intelligent lighting techniques
- Use of prefab TABS (Thermo Active Building Systems) in office buildings for base load climatisation and load shedding, night cooling and off-peak charging / supply

3.2.2 Kortrijk, Belgium

Renewable energy supply (RES)

- 950 kW Bio Fuel Boiler (central + network + heat storage)
- 245 kWp Photo Voltaic Plants (PV)
- 126 kW Gasdriven Absorption Heat Pump
- 78 m^2 Solar Thermal
- 21 kW Decentral Heat Pumps

Energy efficiency in buildings (RUE)

- 7.034 m^2 Experimental area with Existing dwellings and New buildings/ apartments
- 17.774 m^2 Low-energy Renovation of Existing Building stock
- 3.942 m^2 Zero-energy Housing for newly planned houses in city centre and on industrial brown field

Polygeneration

- 9 kW El and 14 kW heat mini-CHP units on bio-fuel (70% RES considering – production energy). These units provide electricity for pumps and heat for the neighbourhood through a small district heating network.

Integration of RES and RUE

- RUE measures will make complete coverage energy demand by RES possible.
- New master plan / infrastructure for a higher density and sustainable use of existing area.
- Expansion of results to the whole building stock of HOUSE-BE (approx. 1.500 houses).

Specific innovations

- Use of district heating with a local RES-based energy central is an innovative technology used, especially in Belgium where by tradition energy sources are electric power and natural gas.
- Integrated approach of social (multicultural and deprived), complete neighbourhoods, considering all the aspects in a consistent sustainable way, concerning the implementation of RES and RUE, but also with an active involvement of the (social) tenants in the way of occupation of the dwellings and an intensive sensibilisation in the way of sustainable and conscious living, e.g.:
- Continuous follow-up and monitoring of energy use by tenants.
- Financial help and guidance of (social-housing) tenants by the social housing association on buying energy efficient household appliances and the integration of collective services by socio-economic projects.

Transport

- Internal transport in the experimental area will be closed for through motorized traffic, excepting public transport and services.
- A mobility study that evaluate and present solutions.

4 Main science and technology results

4.1 Methodologies and approaches

The demonstration activities, which are co-ordinated with the communities' on-going activities, are based on both the demand (ECO-buildings & RUE) and the supply side (RES). All demonstrations will be designed using a "Whole Community Design Approach" in order to ensure the largest possible energy saving potential and to ensure coherence in all activities. The priorities of the Whole Community Design Approach are as follows:

Reduce the demand for heating, cooling, electricity and ventilation
Supply the necessary heating, cooling, electricity and ventilation in the most efficient way and supply use of renewable energy sources
Ensure coherence of all decisions and solutions within all parts of the community concerning energy, environment, economy and life quality of the citizens
Continuous dissemination and training to support the optimization the above mentioned priorities

Energy concepts are developed for each demonstration and are based on:

Actual demand assessments
Sketching solutions, both innovative (including necessary development activities) and traditional
Economic effects and energy effects for the whole community
Dialog with end users using multi-criteria discussion approach
Selection of optimal energy solution for the community, investors and end users
Implementation of selected solutions (in coherence with other local aspects)
Providing necessary training towards facility managers and end users
Lessons learnt and dissemination

4.2 Høje Taastrup, Denmark

4.2.1 Major achievements

In Høje-Taastrup Community, 67 demonstration projects of buildings and renewables have been carried out, see Figure 3. Moreover, the project also includes seven other demonstration regarding CONCERTO integration such as chargers for electrical vehicles and energy efficient street lighting, see Table 2 for detailed figures.

The project includes refurbishment of more than 16,000 m², construction of more than 8,000 m² low energy buildings and installation of renewable energy systems, producing 1,970 MWh in 2015.

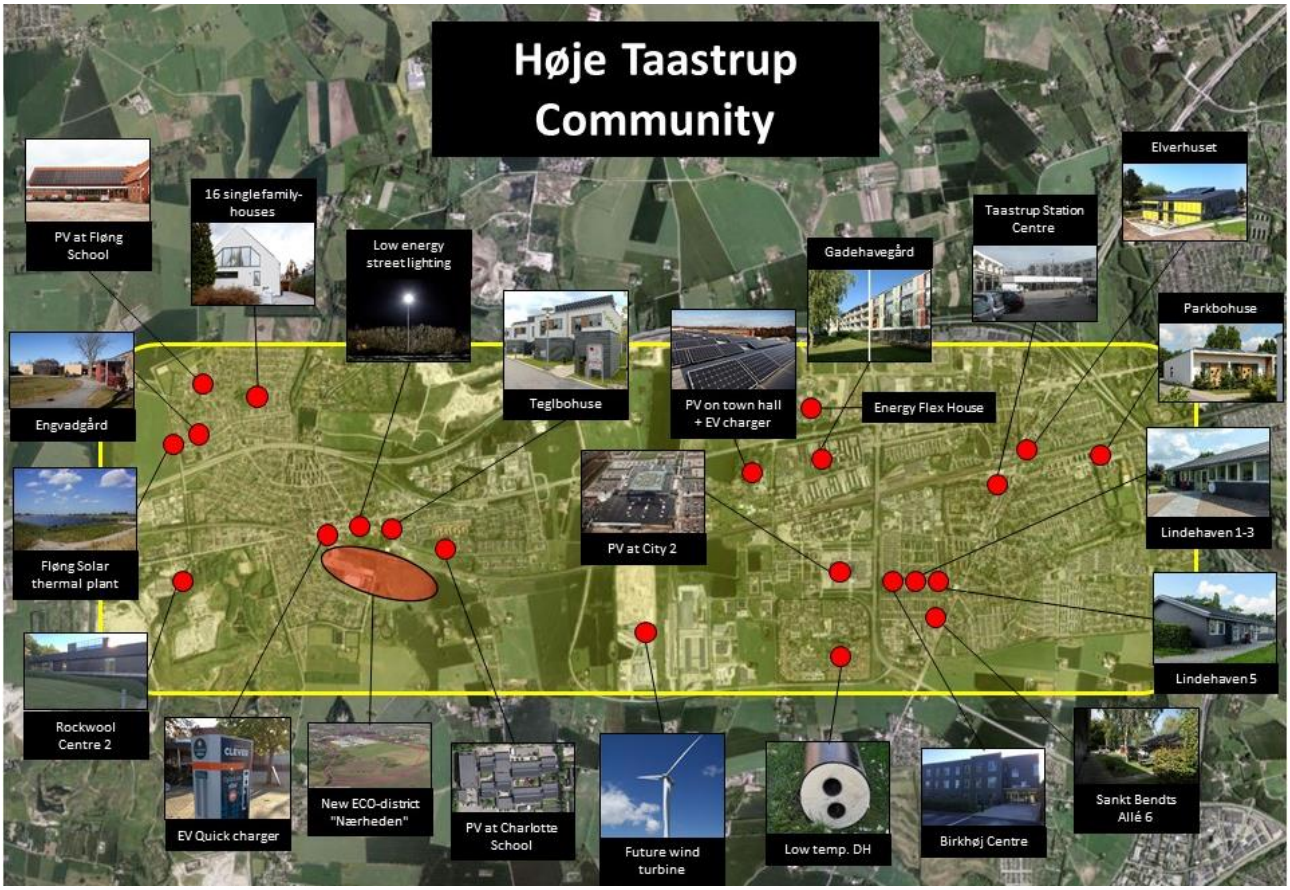


Figure 3: Overview map of demonstrations in Høje-Taastrup Community.

Figure 4: Left: Gadehavegaard before and after renovation. Right: PV at Rockwool Centre 2.

Figure 5: Solar thermal field at Fløng for district heating.

Figure 6: Left: Teglbohuse. Right: Taastrup Station Centre.

Table 2: Specific figures of all demonstrations.

	Refurbishment	New building	PV	Heat pump	Solar thermal
	m²	m²	kW	kW	m2
Elverhuset		901	4.80		12.00
Birkehøj Plejecenter		5,302	37		
Parkbohuse		660	9.10		
Hovedgaden 375		768	16.00	29.40	
Taastrup St. Center, Selsmosevej 2		396	18.5		
Bøgevang 7	167		7.50	7.40	
Fyrrevang 72	122		5.00		
Hovmarken 33	140		6.00		
Stenalderen 86	159		7.00	9.30	
Kalleruphaven 4	151			9.70	
Bøgevang 25	179		7.50		
Jernalderen 44	104			3.00	
Fløngvej 64	153		6.62		
Truelsvej 1	168		6.70	9.30	9.80
Åsingsvej 14	108				
OleRømersvej 37b	167			7.80	
Bredekær 4	132			13.40	
Lilleager 18	135		4.00		
Bartholinstræde 2	153				
Ildvænget 29	132		6.50	7.90	
Stærkendevej 242	128			7.30	
Engvadgård	7782				
Gadehavegård	949		31.72		
Gadehavegård	3962				
Lindetræet, Lindehaven1-3	533				
Sankt Georgs gården, Lindehaven 5	462				
Kogletræet, Sankt Bendts Allé 6	390				
Fløng Primary School			156.80		
Charlotte School			72.30		
City2			2,065		
Townhall			795		
Rockwool Centre 2, Hovedgaden 384	3,265		170	128.6	86
Total	**16,376**	**8,027**	**3,244.54**	**104.5**	**21.8**

4.2.2 Energy savings and CO_2

The energy savings in Høje-Taastrup municipality as a direct consequence of ECO-life was 2,936 MWh in 2015 when comparing the BEST reference consumption with the actual energy consumption. In 2015, the demonstration buildings consumed 2,226 MWh, which were 57 % less than the reference,

Figure 7. In average, the buildings reference consumption was 192 kWh/m² and this was in 2015 reduced to approximately 83 kWh/m².

The average payback time for the building demonstration is 14 years with the EU grant and 17 years without the EU grant, see Table 3.

The CO_2 emission from the existing demonstration buildings with reference consumption in 2009 was **895 tons**, see Figure 8. Without the ECO-Life project, the existing buildings and the new buildings built according to normal building regulations together would have emitted **1223 tons** CO_2 in 2015. This number is now only **568 tons** when calculated with 2009 emission factors and in fact, the true emission in 2015 was only **348 tons** when calculated with 2015 emission factors. This corresponds to a reduction of 53 % or 68 % when using 2009 or 2015 factors, respectively. The CO_2 displacement from the renewable energy plants is three times the CO_2 emission from the buildings, so the community is beyond CO_2 neutral. Even with 2015 factors, the renewable energy production displaces double the amount of CO_2 emitted by the buildings.

The demonstrated renewable energy systems produced 1,970 MWh in 2015, which corresponds to CO_2 displacement of 1,843 tons when using 2009 factors. This is three times the CO_2 emission from buildings, so the community is beyond CO_2-neutral. Even if the CO_2-balance builds on 2015 emission factors, the CO_2 displacement is double the emission from buildings. Total investment costs are 3,342,435 EUR.

The average payback time is 4 years with the EU grant, and 6 years without the EU grant, see Figure 8.

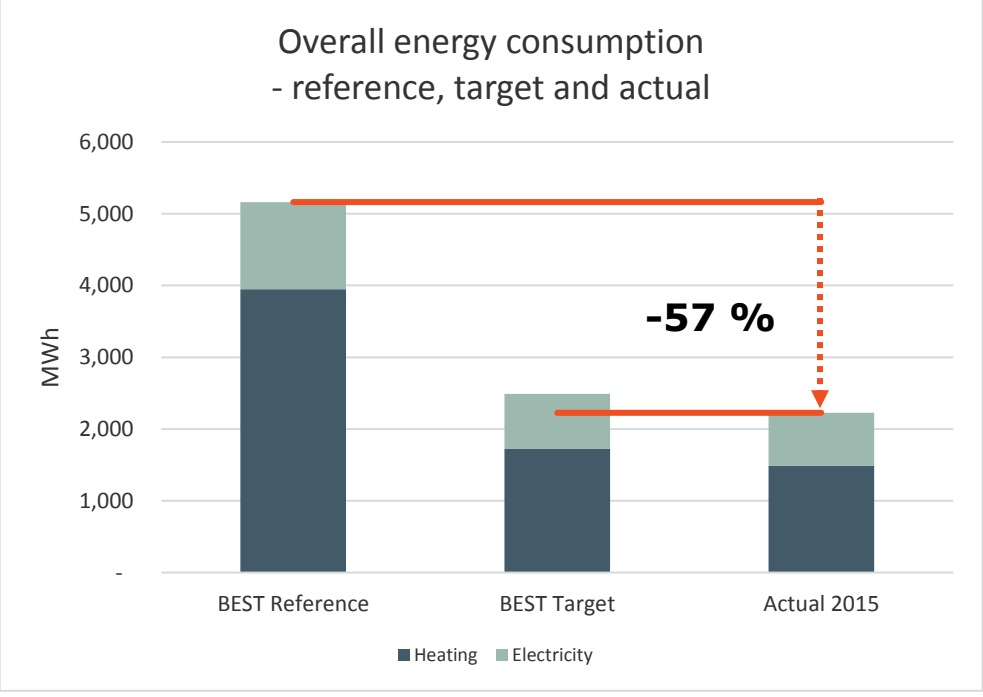


Figure 7: Total energy consumption of Høje-Taastrup

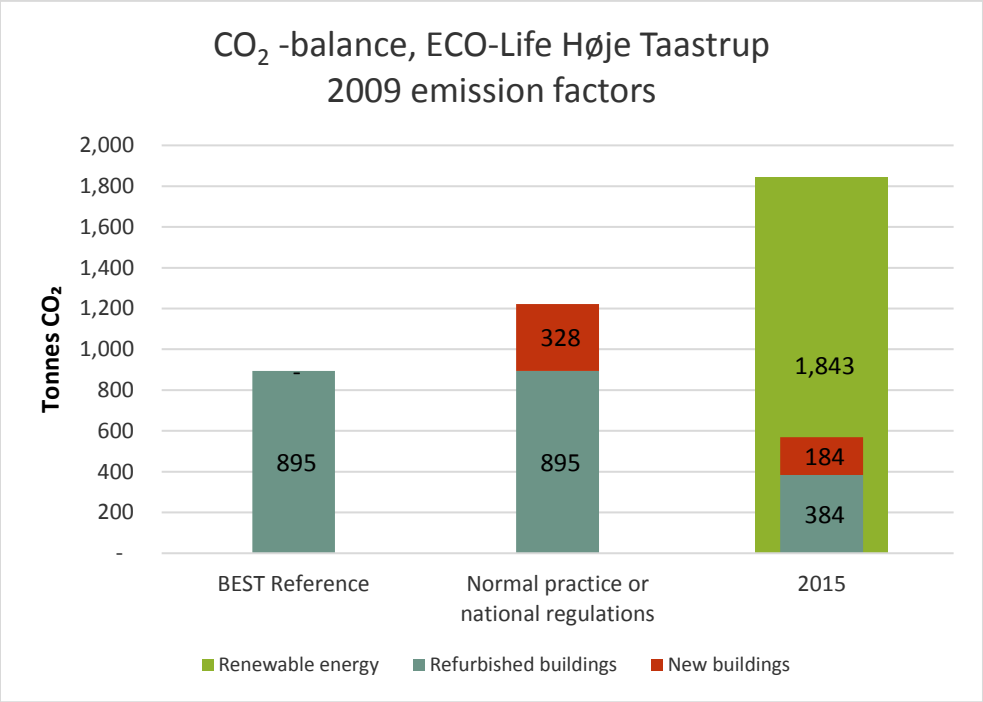


Figure 8: *The CO_2- balance of the ECO-life demonstrations in Høje-Taastrup based on energy consumption and production figures in 2015 and CO_2-emission factors.*

CO_2 and inhabitants

The demonstrations in Høje-Taastrup are residence for a gradually increasing number of inhabitants. Figure 9 illustrates the development in number of inhabitants and the corresponding CO_2 emission per inhabitant, which has decreased from 998 kg in 2009 to 314 kg in 2015.

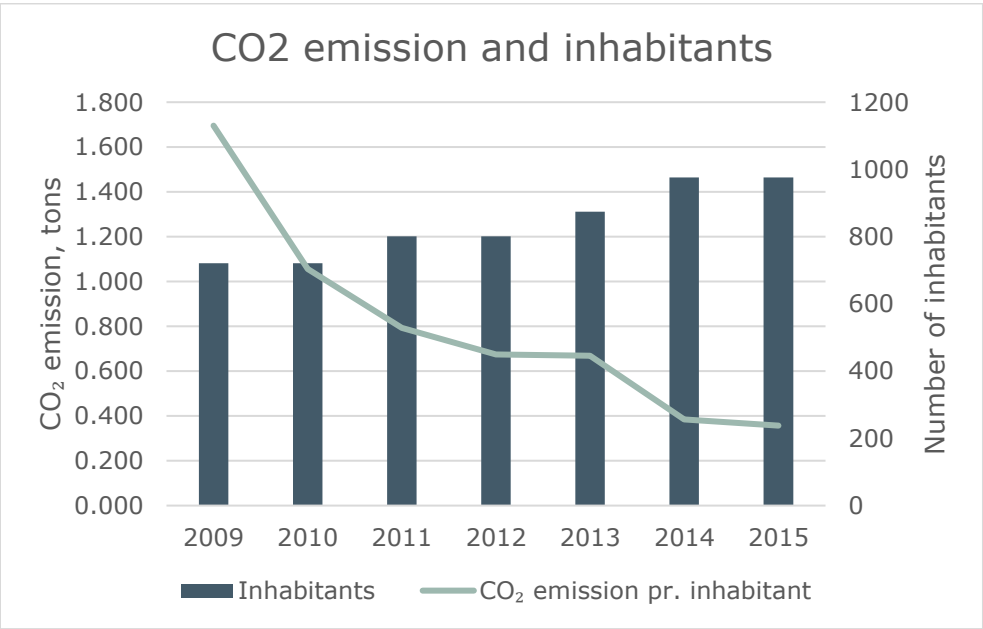


Figure 9: *Number of inhabitants in ECO-Life demonstrations in 2009-2015 and corresponding CO_2 emission per inhabitant.*

Table 3: Feasibility of refurbished and new buildings, 2015 DK. Factor is an estimated energy refurbishment factor. SPB is abbreviation for "simple payback time".

BEST Cate-gory	Demonstration address	Area	Energy savings 2015	Eligible costs	Total investment costs	Extra costs for energy measures in new buildings	Factor*	Refurbishment costs	EU grant	SPB WITH EU grant	SPB WITH OUT EU grant
		m²	Euro	Euro	Euro	Euro	-	Euro	Euro	Years	Years
DK-1	**Parkbohuse**	660	2,309	66,000	2,283,475	87,846	-	-	33,000	**24**	**38**
DK-1	**Teglbohuse**	768	7,342	76,800	2,258,838	102,221	-	-	38,400	**9**	**14**
DK-2	**Taastrup St. Centre**	2,276	36,971	227,600	7,916,638	2,078,020	-	-	113,800	**53**	**56**
DK-3	**Engvadgård**	7,782	109,616	778,200	3,732,322	-	0.40	1,492,929	389,100	**10**	**14**
DK-3	**Bøgevang 7**	167	2,389	16,700	50,101	-	0.80	40,081	8,350	**13**	**17**
DK-3	**Fyrrevang 72**	122	939	12,200	56,413	-	0.65	36,668	6,100	**33**	**39**
DK-3	**Hovmarken 33**	140	847	140	47,251	-	0.40	18,900	7,000	**14**	**22**
DK-3	**Stenalderen 86**	159	1,914	159	38,004	-	0.75	28,503	7,950	**11**	**15**
DK-3	**Kalleruphaven 4**	151	6,955	151	45,846	-	0.30	13,754	7,550	**1**	**2**
DK-3	**Bøgevang 25**	179	741	179	134,348	-	0.25	33,587	8,950	**33**	**45**
DK-3	**Jernalderen 44**	104	1,345	104	24,030	-	0.75	18,023	5,200	**10**	**13**
DK-3	**Fløngvej 64**	179	2,592	153	50,279	-	0.75	37,709	7,650	**12**	**15**
DK-3	**Truelsvej 1**	168	2,460	168	44,670	-	0.85	37,970	8,400	**12**	**15**
DK-3	**Åsingsvej 14**	108	2,230	108	24,574	-	0.60	14,745	5,400	**4**	**7**
DK-3	**Ole Rømersvej 37b**	167	1,198	167	75,879	-	0.20	15,176	8,350	**6**	**13**
DK-3	**Bredekær 4**	132	2,832	132	19,439	-	0.90	17,495	6,600	**4**	**6**
DK-3	**Lilleager 18**	132	2,095	135	11,824	-	0.95	11,233	6,750	**2**	**5**
DK-3	**Ildvænget 29**	132	1,513	13,200	8,614	-	0.95	8,183	6,600	**1**	**5**
DK-3	**Stærkendevej 242**	128	1,058	12,800	46,889	-	0.50	23,445	6,400	**16**	**22**
DK-3	**Bartholinstræde 2**	130	1,972	15,300	79,051	-	0.60	47,431	7,650	**20**	**24**
DK-3	**Gadehavegård**	949	7,552	94,900	366,183	-	0.50	183,091	47,450	**18**	**24**
DK-3P	**Gadehavegård**	3,962	54,875	396,200	1,528,784	-	0.50	764,392	198,100	**10**	**14**
DK-4	**Elverhuset**	901	9,196	90,100	2,630,213	119,923	-	-	45,050	**8**	**13**
DK-4	**Birkhøj Plejecenter**	5,098	37,443	530,200	14,017,293	678,545	-	-	265,100	**11**	**18**
DK-5	**Rockwool Centre 2**	1,000	61,899	100,000	1,300,000	-	0.20	260,000	50,000	**3**	**4**
DK-6	**Lindehaven 1**	363	7,631	53,300	399,944	-	0.30	119,983	26,650	**12**	**16**
DK-6	**Lindehaven 5**	462	11,169	46,200	499,243	-	0.30	149,773	23,100	**11**	**13**
DK-6	**Sankt Bendts Allé 6**	390	4,351	39,000	492,692	-	0.30	147,808	19,500	**29**	**34**
TOTAL			297,593	2,570,296	38,182,840	1,600,528		3,500,727	1,364,150	**14**	**17**

Table 4: Feasibility of renewable energy plants, 2015 DK.

Type	Address	Energy production 2015	Installed capacity	O&M	Annual savings	Investment costs	EU grant	Simple Pay Back WITH EU grant	Simple Pay Back WITHOUT EU grant
		kWh	kW	EUR	EUR	EUR	EUR	Years	Years
HP	Hovedgaden 375	17,948	16.0	195	9,817	64,937	17,640	**5**	**7**
HP	Bøgevang 7	12,662	7.5	195	727	13,897	4,440	**13**	**19**
HP	Stenalderen 86	8,551	7.0	195	821	24,514	5,580	**23**	**30**
HP	Kalleruphaven 4	10,404	9.7	195	17,027	16,927	5,820	**1**	**1**
HP	Jernalderen 44	5,421	4.2	195	153	1,402	701	**1**	**1**
HP	Truelsvej 1	11,216	9.3	195	549	23,144	5,580	**11**	**14**
HP	Ole Rømers Vej 37b	10,062	7.8	195	1,082	11,446	4,680	**6**	**11**
HP	Bredekær 4	11,861	13.4	195	1,160	12,717	6,358	**8**	**17**
HP	Ildvænget 29	6,531	6.5	195	1,373	12,533	4,740	**5**	**8**
HP	Stærkendevej 242	8,341	7.3	195	597	20,284	4,380	**12**	**15**
HP	Hovedgaden 584	94,261	128.6	195	162,828	50,184	25,092	**5**	**7**
PV	Fløng Byvej 24	118,563	156.8	300	48,815	329,390	94,080	**6**	**7**
PV	Charlottegårdsvej 1	124,650	144.1	300	51,475	287,792	43,380	**3**	**5**
PV	Parkvej 135 A-F	9,690	9.1	300	3,682	20,217	10,109	**-**	**-**
PV	Selsmosevej 2	16,892	18.5	300	6,661	-	-	**9**	**12**
PV	Hovedgaden 375	8,825	16	300	3,274	40,065	9,600	**2**	**3**
PV	Murskeen 29-34	39,248	31.7	300	15,868	50,380	22,204	**4**	**7**
PV	Bøgevang 7	7,169	7.5	300	1,917	13,944	6,972	**3**	**6**
PV	Fyrrevang 72	4,104	5	300	1,388	9,019	4,510	**3**	**7**
PV	Hovmarken 33	7,362	6	300	1,976	12,869	6,434	**5**	**11**
PV	Stenalderen 86	6,034	7	300	2,133	25,755	12,878	**6**	**11**
PV	Bøgevang 25	4,787	7.5	300	1,643	18,473	9,236	**1**	**3**
PV	Fløngvej 64	6,384	6.62	300	5,765	13,531	6,766	**2**	**4**
PV	Truelsvej 1	2,916	6.75	300	2,205	15,124	7,562	**3**	**6**
PV	Lilleager 18	4,001	6.2	300	1,364	7,689	3,845	**2**	**3**
PV	Ildvænget 29	5,945	6.5	300	3,962	13,327	6,663	**5**	**7**
PV	Lindehaven 2	32,358	37.0	300	11,253	75,483	22,200	**3**	**6**
PV	Jernbane Allé 4A	2,149	4.8	300	4,763	26,400	13,200	**2**	**3**
PV	Hovedgaden 584	23,345	24.0	300	19,031	22,943	11,471	**4**	**8**
PV	Bygaden 2	125,374	352.0	300	51,620	403,474	198,750	**6**	**11**
ST	Truelsvej 1	2,979		62	241	2,735	1,365	**1**	**1**
ST	Jernbane Allé 4A	1,370	4.8	62	4,119	6,000	3,000	**0**	**1**
ST	Hovedgaden 584	18,545	24.0	62	32,095	31,287	15,643	**8**	**17**
ST	Fløng, Vesterled	1,200,000		62	30,514	1,525,713	756,000	**5**	**7**
WI	Helgeshoej Allé	1,361,489		-	421,306	n.a.	n.a.	**-**	**-**
TOTAL		1,969,949			566,626	3,342,435	1,350,880	**4**	**6**

4.2.3 Socio-economic evaluation

Høje-Taastrup is a typical suburb in the area of Greater Copenhagen but also an area with many enterprises and institutions. The population is typical for Denmark with an average income. The education level is a little lower than average and therefore the unemployment rate is a little higher than average. The citizens are mixed nationality and lives in all kind of dwellings including single-family houses and multi-family buildings.

Altogether, Høje-Taastrup is a very representative sample of Denmark and results are replicable in any other place in Denmark.

4.3 Birstonas, Lithuania

The major part of the activities in Birstonas Community was transferred to Kortrijk and Høje-Taastrup in 2014. Before that, the Birstonas partners contributed to the project with an energy plan for the modernization of multi-apartment buildings. The plan takes into account the legal, organizational and financial aspects of a modernization. The plan has the following main results and recommendations:

- The most realistic and beneficial approach of buildings modernization is to use support provided by the DNMP (The National Programme on Modernization of Multi-apartment Buildings).
- The buildings modernization process, especially application of the ESCO model, is complicated by the existing compensations for heating and hot water.
- It is feasible to motivate inhabitants to modernize buildings while proposing them scenario, which significantly reduce their expenses for building energy consumption and maintenance.
- The main problem to implement the Eco-Life project is that it was not possible to combine Eco-Life support with the available national support schemes – EU Structural Funds and DNMP. The Eco-Life support is not enough in itself. The possibility to combine Eco-Life support with other financing schemes is to use bank services and attract investments, e.g. through ESCO model. However possibility for inhabitants of multi-apartment buildings to use bank loans are limited due to high interest rate, low income, short loan periods, etc. and thus losing financial attractiveness of the buildings modernization.
- To make buildings modernization attractive for the inhabitants and seeking to attract private investors, the project IRR should be higher than 7%

4.4 Kortrijk, Belgium

4.4.1 Major achievements

The ECO-Life project in Belgium is a residential community consisting of 274 dwellings, grouped into six clusters based on their location, typology, construction approach and timing. Three clusters are located in the Venning neighbourhood and three others are located at the sites of Pottenbakkershoek, Gutenberg and Drie-Hofsteden, see Figure 10. In Venning Phase 1, Pottenbakkershoek and Gutenberg, in total six multi-family buildings were newly constructed. In Venning Phase 2 and 3 single-family houses that are grouped into 20 housing blocks were newly built and refurbished respectively. In Drie-Hofsteden one multi-family building was refurbished. See building overview in Table 5 with area and number of dwellings.

Next to the demonstration buildings, a number of demonstration energy systems are included in the community, see Table 6.

Figure 10: Overview of demonstration sites in Kortrijk.

Table 5: Demonstration building overview

	Refurbishment	New building	Number of dwellings
	m²	m²	Pcs.
Venning Phase 1		7,545	82
Venning Phase 2		7,842	64
Venning Phase 3	7,241		50
Pottenbakkershoek		2,073	24
Gutenberg		1,869	21
Drie Hofsteden	2,937		33
TOTAL	**10,178**	**19,329**	**274**

Figure 11: Venning phase 2: Private gardens, pergolas and solar PV on the roofs and biomass based DH supply.

Figure 12: Drie Hofsteden

Figure 13: Left. Gutenberg. Right:

Table 6: Demonstration energy system overview.

	System type	Installed capacity	Unit
Venning F1/A	Photovoltaics	38.3	kWp
Venning F1/C	Photovoltaics	13.8	kWp
Venning F1/D	Photovoltaics	16.1	kWp
Venning F2	Photovoltaics	64	kWp
Venning F3	Photovoltaics	50	kWp
Venning	Biomass boiler	950	kWth
Venning	Biofuel mini-CHP	14/9	kWth/kWel
Pottenbakkershoek	Heat pump (air)	125	kWth
Pottenbakkershoek	Photovoltaics	38.7	kWp
Gutenberg	Photovoltaics	25.8	kWp
Gutenberg	Heat pump air	21	kWth
Drie Hofsteden	Solar thermal	77.8	m²

4.4.2 Energy savings and CO_2

The monitored yearly primary energy balance of the demonstrations in the Kortrijk ECO-Life community was found to be 117 kWh/m²/year on average (energy use 2015-2016). This represents 39% less primary energy than if the community were built and refurbished according to the national EPBD regulations in force at the time of building permission, and on average 23% less primary energy use compared to the CONCERTO specifications. The monitored net space heating demand was 22 kWh/m²/year in new demonstration buildings and 48 kWh/m²/year in refurbished demonstration buildings, substantially lower than the requirement of 70 kWh/m²/year in national regulation, see Figure 14.

As a result 476 tons CO_2-emissions have been saved, which is a reduction of 40% in comparison to national regulations, Figure 15. The simple payback time of the demonstration buildings is 12 years including the EU grant and 24 years without the grant, see Figure 16. As this is smaller than the typical lifetime of most energy saving measures which were taken to achieve the energy performance (thermal insulation, high performance windows, airtightness etc.), the additional investments in the demonstration buildings will be paid off.

Because of the renewable energy systems, 303 tonnes of CO_2 have been displaced by the renewable energy systems, covering about 60% of all CO_2-emissions. The simple payback time of the total of PV and heat pump RES-systems is 1 year with the EU grant and 12 years without, see Figure 17-Figure 18. The biomass plant with local district heating network was found not to be cost effective compared to standard systems with individual boilers per building.

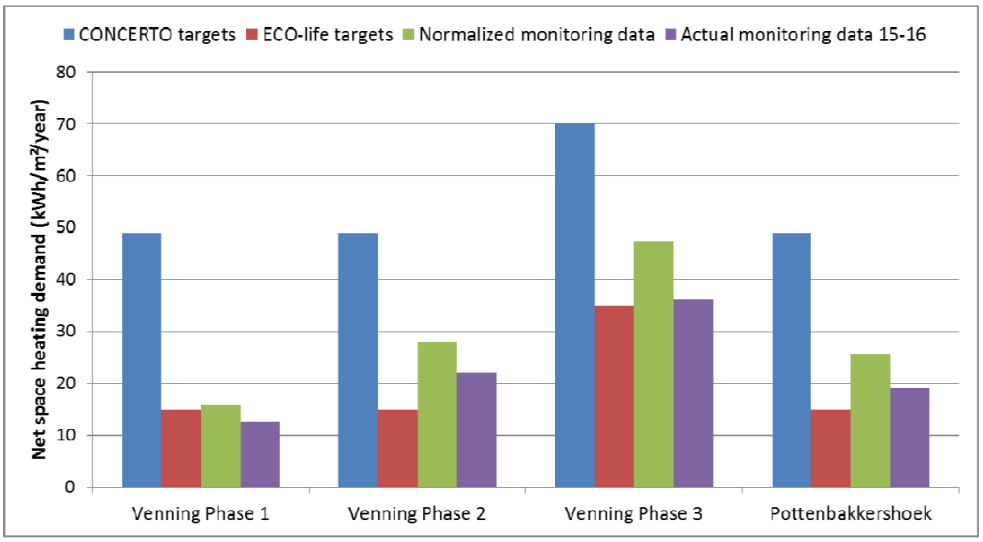


Figure 14: Comparison of monitored space heating demand and project targets.

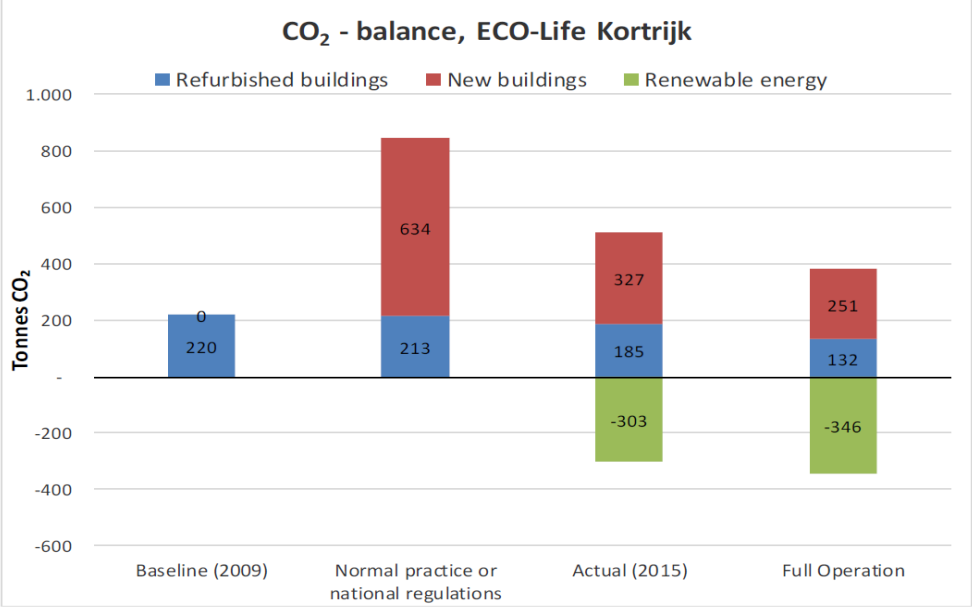


Figure 15: CO_2-balance of Kortrijk Community.

	additional cost	total grant	as-built		reference		payback time without grants	payback time with grants
			energy use SH+DHW	energy cost SH+DHW	energy use SH+DHW	energy cost SH+DHW		
	[€/m²]	[€/m²]	[kWh/m² /year]	[€/m² /year]	[kWh/m² /year]	[€/m² /year]	[year]	[year]
Venning Phase 1	117,9	61,8	33,1	4,4	85,0	11,3	18,0	8,6
Venning Phase 2	110,9	65,6	47,5	6,3	85,1	11,3	24,6	10,0
Venning Phase 3	114,9	63,4	66,3	8,8	81,5	10,8	73,0	32,7
Pottenbakkershoek	101,2	61,8	38,3	3,5	78,6	7,1	43,7	17,0
Total							27,8 24,1*	12,2

* only without EU-grant

Figure 16: Overview cost analysis of demonstration buildings according to the DD+IT correction.

	investment	EC grant	total yearly production	total yearly returns	payback time without grants	payback time with grants
	[€]	[€]	[kWh/year]	[€/year]	[year]	[year]
Venning/Pottenbakkershoek	383 007	325 350	210 895	28 034	13,7	2,1
Gutenberg	40 140	38 625	25 037	3 328	12,1	0,5

Figure 17: Overview cost analysis of PV systems.

	additional cost	total grant	HDD+IT			HDD		
			energy savings	payback time without grants	payback time with grants	energy savings	payback time without grants	payback time with grants
	[€]	[€]	[€/year]	[year]	[year]	[€/year]	[year]	[year]
Pottenbakkershoek	3 874	25 200	3 891	1,0	0,0	4 289	0,9	0,0
Venning	859 211	583 800	-73 170	/	/	-80 741	/	/

Figure 18: Overview cost analysis of heating systems.

4.4.3 Socio-economic evaluation

The ECO-Life dwellings in Kortrijk are part of social housing neighbourhoods. The occupants of the dwellings include a large number of elderly people and rather small households, living mostly in multi-family buildings. The population also includes a significant number of people with a nationality different from the Belgian nationality. The project provides dwellings facilitated for disabled people as well as some large houses for families with 5 up to 8 members. Therefore it is found that there is a lot of diversity between the households, presuming that the population is limited to families with a rather low income.

A study of the heat costs in the Venning Phase 1 buildings shows that the heat costs (space heating and domestic hot water) are on average 340 EUR/year and between 0.7 and 5.9% of the household income, which is very acceptable and about 2.4 times lower than in a reference new building planned in 2010.

During the planning process, the occupants were involved via occupant-meetings and after completion of the project, they were invited to occupant assemblies where the specificities of their new houses were elucidated. In a survey to sample of the Venning population, it is found that in general the people are positive about their new homes and the quality of the district has improved a lot. In the future, it is attempted to also include the inhabitants in taking care of the semi-public outdoor space in between the dwellings (e.g. taking care of fruit trees or the play field).

5 Project achievements related to state-of-the-art

5.1 Technologies developed

Exploitable Knowledge (description)	**Exploitable product(s) or measure(s)**	**Sector(s)** of application	Timetable for **commercial** use	Patents or other IPR protection	**Owner** & Other Partner(s) involved
Building refurbishment	Experience in legal, finance, organisation, social issues, communication, commissioning, evaluation, monitoring & targeting	Building Social housing Single family houses Institutions and office	2016-	N/A	Goedkope Woning – BE BURO II – BE Herman Jult – BE COWI – LT COWI-DK Teknologisk Institut – DK Det Grøne Hus / Energitjenesten – DK Høje Taastrup Kommune - DK
Large scale PV	Experience in finance, legal, organisation, design & operation	ESCO Shopping Centres Schools	2016 -	N/A	Høje Taastrup Kommune - DK CITY 2 - DK DANICA – DK Green Go Energy - DK COWI-DK
Large scale Solar Thermal for District Heating	Experience in finance, legal, design & operation	Energy	2016 -	N/A	COWI-DK Høje Taastrup Fjernvarme DK
Polygeneration & Energy storage in ground	Design and legal aspects and Groundwater aspects	Energy / Buildings / Environment	2016 -	N/A	COWI-DK

Exploitable Knowledge (description)	**Exploitable product(s) or measure(s)**	**Sector(s)** of application	Timetable for **commercial** use	Patents or other IPR protection	**Owner** & Other Partner(s) involved
Biofuel based CHP	Design & operation	Energy	2016 -	N/A	Ingenium BE
2 way intelligent metering	Feed- back system and user interface product	Building, Smart City	2016 -	N/A	APTUS –SE Evikali – DK Min Energi - DK
Low temperature district heating	Design & operation	Integration / Energy	2016 -	N/A	COWI-DK Høje Taastrup Fjernvarme DK
Gasfired Heat Pump	Design & operation	Building	2016 -	N/A	BURO II – BE e-Ster - BE
Heat Pump testing	Test stands	Integration	2016 -	N/A	Teknologisk Institut - DK
Energy optimisation	Experience in optimisation process both on demand & supply side	Integration	2016 -	N/A	COWI –DK Ghent University BE Vilnius Technical University - LT
Window frames in mineral wool And other mineral wool product	Product manufacturer and system knowledge	Building	2016 -	Pending	Rockwool - DK
Low Energy Street lighting	Product and system knowledge	Integration	2016 -	N/A	Høje Taastrup Kommune – DK DONG – DK COWI – DK BURO II - DK
EV car charging	Experience to rool out of car charger in relation to municipal fleets	Integration	2016 -	N/A	Høje Taastrup Kommune – DK Clever, E.On
Wind Turbine	Location, noise, visualisation, simulation, tendering etc	Energy / Environment	2016	N/A	COWI-DK Høje Taaastrup Kommune
Use of monitoring database and big data	Database combining layors of information	Sustain-able Energy Planning	2016 -	N/A	University of Ghent – BE Høje Taastrup Kommune – DK COWI - DK

5.2 Høje Taastrup

5.2.1 Lessons learned beyond state of the art

- It was found that it is difficult and time consuming to persuade single-family homes owner to carry out energy refurbishment. However, if the house in any case needs maintenance and a general update to preserve its value in the market, then the refurbishment will be prioritised and of course in an energy efficient way.

- The latent group of house owners to do/not to do energy refurbishment can be influenced if they get competent guidance on one-to-one basis from a trustworthy person through the whole process. This person (e.g. from the municipality or independent organisation) can besides the energy savings highlight the added values like increased market value of a modernised house/easier to sell and the improved comfort and liveability.

- For all type of buildings user habits in low energy buildings and deep renovated houses influence the final energy consumption negatively, as users think that energy costs are lower than for a normal energy renovated building, so they get sloppy in the good housekeeping like venting though open windows and keeping an increased room temperature.

- Often the extra effort and cost for deep energy renovation does not pay off due to changed user habits, unless there is an extra economic incitement for keeping energy consumption low.

- It was found that large scale PV at long term stable consumers with high own consumption like shopping malls and big offices and schools are a very cost efficient way to reduce primary energy consumption and CO_2 emission in a distributed way.

- It was found that heat pumps have a lower COP under real-life operation due to many start and stop and due to bypasses in the heating system and slow acting valves.

- It was demonstrated that district heating pipe losses can be reduced significantly using new twin pipes series 3 with increased insulation and reduced pipe dimensions, and is operated at low temperature than for traditional systems. Also integration of large scale solar in the district heating system showed to be beneficial as long as the cost of land rent is low.

5.3 Kortrijk

5.3.1 Lessons learned beyond state of the art

- The project has learned and demonstrated how to motivate the tenants of social housing to participate in deep renovation of their neighbourhood, giving the 'new ecological elements' an additional social significance and providing opportunities for a nice new neighborhood.

- The project has demonstrated how a 'ghetto area' can be transformed to an eco-village supplied by renewables and using District Heating

- The project learned architects and engineers to design and construct dwellings not only from the point of view of artistic or technical possibilities or financial or administrative constraints, but during the whole process from the point of view of social tenants of all ages, cultural backgrounds and gender

- The project has learned client, designers, constructors and researchers to work together for a larger sustainable purpose

- The project found that pre-calculated technical solutions do not always offer the best solutions: for example the ability of part load operation of the bioboiler is important to consider; e-boiler units must not be oversized (ideally thy should only have about 60% of the design peak load of the system)

5.4 Birstonas

5.4.1 Lessons learned beyond state of the art

- The project found that it is not feasible to deeply refurbish social housing which is collectively owned by the inhabitants (energy bills are paid by the municipality to the socially weak – so there is no incitement energy saving). If financing sources e.g. structural funds can be combined with other funds that together will pay more than 50% of the costs then it may be possible. As this was not possible, the original plans in the project with the demonstrations in Lithuania were not possible.

- A future possible way forward could be that the municipality buys the buildings for refurbishment, rent them out in a kind of sell-and-lease–back-model. Therefore, municipalities must be frontrunners and must have access to capital.

The action plans in Lithuania focus so far mainly on increasing biomass in the energy supply systems.

6 Impact of the project on relevant sectors

The transfer of experience across borders in this project has been of good inspiration and value for the partners working with planning and consultancy.

The project has had a profound impact not only locally but also regionally and nationally in different relevant sectors.

6.1 Political and regulatory sector

Work developed in the ECO-Life project has led to the cooperation between the representatives of political and regulatory sector at local, regional and national level. Energy efficient refurbishment of cities has become a major concern for city managers and policy makers. In order to develop an adequate urban plan design for areas already constructed, it is necessary to have a close collaboration between the different political actors.

The project was expected to have a large replication potential and the municipalities have met the challenge and encouraged neighbouring communities to start their own path of energy-efficiency.

- In **Belgium**, ECO-Life was the first Zero Carbon District Project setting high standards on sustainable energy demand and supply. The area has attracted much attention from local stakeholder and politicians and is regarded as a lighthouse and a remarkable project.

  Before ECO-Life district heating existed in a very limited extend due to the long tradition for natural gas consumption in Belgium from the North Sea. ECO-Life introduced district heating in Ghent and this replication potential is already being realized as more district heating areas are to come.

- In **Denmark**, sustainable and CO_2-neutral communities have appeared on the political agenda in municipalities for years, but more are coming. Aarhus, Copenhagen (Northern Habour), Albertslund, Sønderborg are on full energy efficient speed with ambitious plans for the climate and many demonstration and urban development projects.

6.2 Municipalities

The municipalities involved in the communities have gained an increased focus on energy efficiency and have improved and updated the climate action plans during the course of the project.

Neighbouring municipalities have been inspired by the project and have carried out similar initiatives leading to new projects or near zero energy building projects to be carried out.

In addition, most of these municipalities have now signed the Covenant of Mayors treaty or Compact of Mayors.

Høje-Taastrup Municipality is further involved in coorporation projects such as Interreg project by the name "Smart City Accelerator". This project focuses on facilitating development and knowledge sharing of demonstration projects that can create sustainable solutions in the supply network of municipalities from energy production to end user consumption.

6.3 Population

An important aspect of the ECO-Life project is the social impact of the citizens in Høje-Taastrup and Kortrijk. During the project period, there has been consistently interactions with the inhabitants who have been involved in discussions and development of the solutions (Whole Town Development Approach). It is commonly accepted, that attitudes and behaviours must be modified to ensure energy efficiency and sustainable energy supply for a project to succeed. In order not to spoil the concept of energy efficient housing by bad habits and lack of knowledge, the inhabitants have been educated and informed about appropriate behaviour.

6.4 Technicians and professionals

The ECO-Life project has had a direct impact not only on the architects, engineers and other professionals participating in the project as partners of third parties but also on other professionals visiting or seeing the work being developed thanks to the great dissemination of the project. New models for eco and energy efficient construction and retrofitting have been developed within the project and have had a direct impact on the area in the future.

In that way, the ECO-Life project has contributed to setting new standards for energy efficiency. In Høje-Taastrup activities have investigated and developed new design methods for the dimensioning of district heating pipelines and installations of systems based on low temperature. This development was closely coordinated with a Danish RTD-project called *"Development and demonstration of Low-Energy District Heating for Low Energy Buildings"*. The very good results from the project have set a new standard for the Høje-Taastrup district heating company and it seems like other supply companies have been inspired and are seeking innovative projects themselves.

The activities developed and the lessons learned in the project will allow them to confront the current situation with new opportunities of development.

ECO-life buildings and especially the RES plants (Large scale PV and low temperature district heating based on RES) will serve as a model for future construction and retrofitting.

6.5 Construction and industry sector

The project has had a large impact on the construction sector of the communities and has encouraged industries to play a leading role in sustainable urban development. Considering the economic situation, with a financial crisis in the major part of the project period, the project has improved the economy of the area, has created, and maintained several jobs in the sector.

ECO-Life has been a great opportunity for actors interested in energy efficient construction and refurbishment such as promoters, constructors, housing companies and industries, including Rockwool, to brand their products. **Rockwool** has in the project tested new insulation products and passive house solutions on a large scale. The Rockwool Centre 2 is also an exhibition platform and a development centre for new products for instance window frames of stone wool, recyclable growth mediums for horticultural enterprises etc. The project has further developed the business in this complex sector.

The activities in ECO-Life have supported the development of smart grid with several battery chargers for **electrical vehicles** in the city. Today, the municipality has more than 26 electrical cars, which is 50 % of the total personal car fleet, and the experiences with the operation and maintenance are very positive with stable and cost. Hence, all future purchases of municipal vehicles are either electrical, hybrid or fossil fuel free cars such as gas driven cars. In fact, the four years of leasing period has just been extended with four years more.

More of the partners operate in several countries, and especially COWI is working worldwide from many offices. Experience from ECO-Life has been promoted through internal and external networks and the work with sustainable city development has been replicated in cities like Helsingborg, Lyon, Amsterdam and Växjö and even in Shangri-La in the Dêqên Tibetan state of China.

6.6 Perspectives of ECO-Life-project

Standing on the exit doorstep of the ECO-Life project, a look back on the extensive amount of the activities, experiences and joint forces lead to some reflections. It is a fact that the ECO-Life project has become an extremely successful project with many demonstrations and activities. It has influenced and pushed the political agenda in a direction of more sustainability and created a ripple effect of green transition activities spreading to neighbouring communities.

It seems that the reason for this achievement is, that is had been possible to create and maintain long lasting and well-integrated partnerships between project participants. The fact that the project was anchored in a municipality such as Høje-Taastrup, a central and solid partner, has caused efficient decision making and prioritising. When entering the project, the project partners engaged and committed themselves to the long-term objectives in the project scope. The obligations of the consortium and the continuity of the project have inspired and caused partner to aim high when for instance trying out new technologies. The project can be considered like a training session for the involved businesses and contributed maturing decisions and developments.

The interaction of the participants in the project is comparable with the concept of a CONCERTO where different professional groups perform a composition with different characteristics over time. Municipalities, utilities, housing companies, consultants and industries have worked together in transverse activities and on specific challenges.

The project has indeed prepared participants to launch further developments and will make future efforts towards fossil fuel free communities more cost efficient.

7 Dissemination

7.1 Dissemination results

Because of the results obtained in the ECO-Life project, dissemination activities, including newspapers, online articles and TV, have reached about 4.8 million people across Europe. Since the beginning of the project, more than 350,000 hits have been on the project website. Demonstration projects have been nominated for or received several awards:

- Winner of KAB's Sustainability prize for the refurbishment of Engvadgaard. Prize 10.000 DKK

- Nominated for the "Renoverprisen (the Refurbishment Prize) for Gadehavegård in Høje Taastrup. Denmark's best refurbishment in 2016.

- Nominated for the European Responsible Housing Award 2016 for Venning in Kortrijk

7.2 Summary of plan for using and dissemination of knowledge

One of the main objectives of the ECO-Life project is the replication of the activities developed in the project into other areas, and the boosting of energy efficiency criteria in construction and retrofitting mainly at regional and national level.

The plan for disseminating the knowledge obtained has been:

- To participate in forums, congresses and conferences
- To participate in awards for the recognition of the work developed in the project
- To prepare training for technicians operating the buildings
- To disseminate the project news to newspapers, technical journals, TV, radio, internet etc.

Municipalities are not only going to disseminate the results of the project by participating in conferences or congresses and awards but also by introducing the ECO-Life criteria in the urban development plans of the Vision Area "Nærheden" in Høje Taastrup.

Following videos have been produced in the project period and are all published and uploaded project website www.ecolife-project.eu.

- Høje-Taastrup as a SMART city
- Fossil free transportation
- Fossil free heat supply
- Energy efficiency in buildings
- Fossil free electicity supply
- ECO-life has kick-started the green transmission in Høje-Taastrup municipality (video in Danish)
- Høje-Taastrup municipality on SMART CITY (video in Danish)
- A kickstart on green transmission in Høje-Taastrup municipality (Video in English)
- Video from Kortrijk Community
- Video from Høje Taastrup Community
  "Sluk lyset" (*"Turn off the light"*)
- Video from final conference
  "The ECO-Life project from a bird's eye perspective"

Selected major dissemination activities are listed in the following table in appendix 10.1.

8 Appendices

8.1 Dissemination list

8.2 List of deliverables

8. 3 Report on social implication

8.4 Monitoring factsheets – DK

8.5 Monitoring factsheets - BE

8.1 Dissemination list

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
INFO-DK	Marts 2010	Event - meeting	Bæredygtig udvikling i kommunens vestlige del		Citizen	40	Danish
INFO-DK	Marts 2010	Article	"Hør om bæredygtig udvikling i Fløng-Hedehusene"	Lokalavisen Taastrup	Citizen	23,565	Danish
HOUSE-BE	April 2010	Film		http://www.ecolife-project.eu/PicturesAndVideos.html	Citizens	Unlimited	In Flemmish and English
UNI-LT ASSOC-LT BALTIC-LT IDEA-LT MUN-LT	11-14 July 2010	Presentation at the EU	Presentation at the 24th EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH (EURO), Lisbon "Birštonas - the first eco-town in Lithuania: from idea to the Eco-life Project" Tatjana Vilutienė, Vaidotas Šarka, Darius Biekša, Edita Šarkienė	Article at scientific conference (internet source)	Scientists, European Community	Unlimited	English
MUN-LT	July 2010	Presentation at the EURO conference	"Birstonas - the first eco-town in Lithuania: from idea to the Eco-life Project		Developers, Engineers and Architects	Unknown	English
INFO-DK	August 2010	Article	Mulighedernes land	http://ennyverden.alternativinformation.dk/?p=30	Citizens	Unlimited	Danish
INFO-DK	August 2010	Article	Kan man dyrke egne grøntsager i Hedehusene?	Dagbladet Roskilde	Citizens	81,947	Danish
INFO-DK	August 2010	Article	De dyrker også grøntsager i Hedehusene	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	August 2010	Event	Solcelleudflugt til Gaia Solar		Citizens (1/3 were from the Hedehusene-Fløng area)	37	Danish
INFO-DK	August 2010	Article	Solcelleudflugt på onsdag den 25. august i Avedøre	Lokalavisen Taastrup	Citizen	23,565	Danish
INFO-DK	September 2010	Event - meeting	Event 2010 in Hedehusene	www.mec.ht.dk	Citizens	10	Danish
INFO-DK	September 2010	Article	Hedehusene 2020 konkurrence	Lokalavisen Taastrup (local paper Taastrup)	Citizens	23,565	Danish
INFO-DK	September 2010	Event - meeting	Renewable Energy Event		Citizens	Unknown	Danish
INFO-DK	September 2010	Article	En dag i den vedvarende energis positive tegn	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	September 2010	Article	Bliv klogere på miljø og energi	Dagbladet Roskilde	Citizens	81,947	Danish
INFO-DK	September 2010	Article	Brug regnvand til toiletskyl	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	September 2010	Article	Familien i Fløng	Lokalavisen Taastrup	Citizens	23,565	Danish
RTD-DK	September 2010	Scientific paper	Passivhusbørnehave med førsteklasses indeklima	Energiforum Danmark	Citizens	460	Danish
MUN-DK	September 2010	Press release	EU yder millionstøtte til CO2-neutral bydel i Høje Taastrup	http://www.htk.dk/Nyheder/Nyhedsoversigt/Pressemeddelelser/2009/September_09/EU_yder_millionstoette_til_CO2_neutral_bydel_i_HTK.aspx	Citizens	Unlimited	Danish
COWI-DK	September 2010	Press release	Borgere i Danmark, Belgien og Litauen er med til at udvikle nye energiløsninger i et stort EU-projekt	http://e-pages.dk/cowi/15/10	Citizens	Unlimited	Danish
ASSOC-LT	October 2010	Dialog meetings and events with citizens	ANNEX 1 - Questionnaire for appartment house residents ANNEX 2 - Presentation of initial results		Citizens	Unknown	Lithuanian and english
INFO-DK	December 2010	Article	Et nyt bygningsreglement kan volde store kvaler	Lokalavisen Taastrup	Citizens	23,565	Danish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
INFO-DK	January 2011	Article	Det nye bygningsreglement volder kvaler	http://www.dinby.dk/greve/det-nye-bygningsreglement-volder-kvaler	Citizens	Unlimited	Danish
INFO-DK	February 2011	Seminary	Seminary for artisans on 2 Februay 2011		Citizens	16	Danish
INFO-DK	Evey third Thursdays of the months April, May, June, August, September and October	Event	The market on the Moors at Hedehusene Station		Citizens	50-200	Danish
INFO-DK	April 2010	Article	Borgmesteren udfordret til kamp op markedspladsen	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	April 2010	Article	En drabelig dyst åbnede markedet	Lokalaviserne Tasstrup Ishøj Vallensbæk	Citizens	79848	Danish
INFO-DK	April 2010	Article	Hyggeligt marked	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	April 2010	Article	Vær med til at bestemme markedets navn	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	April 2010	Article	Markedsdag på torsdag	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	May 2010	Add in Newspaper	Torvemarked ved Hedehusene station torsdag den 20. maj kl. 15-18	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	May 2010	Article	Marked med underholdning	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	May 2010	Article	Marked på torsdag ved Hedehusene Station	Lokalavisen Taastrup	Citizens	23,565	Danish
COWI-DK	May 2010	Brochure	Vision Gammelsø	Høje Taastrup Municipality	Citizens	47,664	Danish
RTD-DK	May 2010	Article	Energi til hele huset - og en elbil	Politiken	Citizens	366	Danish
MUN-DK	June 2010	TV programme	Electrical car	TV2, Lorry channel	Citizens	Unlimited	Danish
MUN-DK	June 2010	Article	Storstilet forsøg fordobler antallet af elbiler i Danmark	www.ing.dk	Citizens	Unlimited	Danish
MUN-DK	June 2010	Press release	10 elbiler på vej til borgerne i Høje-Taastrup Kommune	www.htk.dk	Citizens	Unlimited	Danish
INFO-DK	June 2010	Add in Newspaper	Hede-marked torsdag den 17. juni kl. 15-18	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	August 2010	Article	Torvecafe og klovnerier på Hedemarkedet	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	August 2010	Article	Hedemarkedet på rette kurs	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	September 2010	Add in Newspaper	Hedemarkedet torsdag den 16. september kl. 15-18	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	September 2010	Article	Hedemarkedet er der igen	Lokalavisen Taastrup	Citizens	23,565	Danish
HOUSE-BE/ Herman Jult	September 1, 2010	Article	Wat is toekomstgericht wonen?	Gezinsbond	Citizens	?	Flemmish
INFO-DK	October 2010	Article	Sidste ordinære Hedemarked i år	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	October 2010	Article	Sol over Hedemarkedet	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	October 2010	Article	Solskin på Hedemarkedet	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	October 2010	Article	Torvedag ved stationen på tordag	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	October 2010	Brochure	Fall in love with Høje-Taastrup	Høje Taastrup Municipality	Citizens	47,664	English
HOUSE-BE	October 2010	Article	Venning krijgt nieuw gezicht in 2015	Kortrijk&Waregem& Mene	Citizens	?	Flemmish
HOUSE-BE	6 October 2010	Article	Venning wordt ecologische modelwijk	Leiestreek	Citizens	?	Flemmish
HOUSE-BE	October 15, 2010	Article	Verhuis kan beginnen	Kortrijk&Waregem&Me	Citizens	?	Flemmish
INFO-DK	November 2010	Event - meeting	Nøddetræsaktion i Hedehusene		Citizens	120	Danish
INFO-DK	November 2010	Article	Nødder og frugt i vente	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	November 2010	Article	Nøddetræer til Fløng og Hedehusene	Lokalavisen Taastrup	Citizens	23,565	Danish
INFO-DK	November 2010	Article	Frugttræer til fælles nytte og fornøjelse	Lokalaviserne Tasstrup Ishøj Vallensbæk	Citizens	79848	Danish
INFO-DK	November 2010	Article	Nøddetræer i Hedehusene og Fløng	Lokalavisen Taastrup	Citizens	23,565	Danish
MUN-DK	November 2010	Press release	Høje-Taastrup kommune indgår i klimapartnerskab med DONG Energy	www.htk.dk	Citizens	Unlimited	Danish
RTD-DK	December 2010	Article	Gratis elbiler til 2,400 familier	Politiken	Citizens	366	Danish
INFO-DK	December 2010	Brochure	Klimaplan 2009-2013	Høje Taastrup Municipality	Citizens	47,664	Danish
HOUSE-BE	1 December 2010	Article	Volkswijk gaat klimaatneutraal	De Standard	Citizens	?	Flemmish
HOUSE-BE	2 December 2010	Article	Venning wordt ecologische modelwijk		Citizens	?	Flemmish
HOUSE-BE		Article	Europese subsidies voor groene social woningen		Citizens	?	Flemmish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
BURO-BE	January 2011	Book	Sociale huisvesting logement social	Alert 1	Citizens	Unlimited	Flemmish and French
HOUSE-BE	5 January 2011	Press article	'Wijk is aan nieuw leven toe' – bouwvergunning voor eerste fase op de Venning		Citizens of Kortrijk + wider region	Unlimited	Dutch
MUN-LT UTIL-LT ASSOC-LT	9 February 2011	Tv programme	TV show about Eco-Life project	TV show "Ekovizija" (Ecovision)			Lithuanian
BALTIC-LT	14 February 2011	Article in the newspaper	Interview for the article "Centrinį šildymą keikia tiktai lietuviai" (District heating is cursed only by Lithuanians)	Newspaper "Lietuvos rytas", 2011, No 37 (6099), p. 9		6000	Lithuanian
HOUSE-BE	8 March 2011	Press release + article	'Werken ecologische wijk gestart' (Het laatste nieuws, 9/3/2011) 'Bouwwerken voor groene wijk op de Venning gaan van start' (Het Nieuwsblad, 9/3/2011)		Citizens of Kortrijk + wider region	Unlimited	Dutch
HOUSE-BE	9 March 2011	Article in the newspaper	Bouwwerken voor groene wijk de vennie	Niewsblad.be	Citizens of Kortrijk + wider region	Unlimited	Dutch
HOUSE-BE	9 March 2011	Article in the newspaper	Werken ecologische wijk gestart	Niewsblad.be	Citizens of Kortrijk + wider region	Unlimited	Dutch
INFO-DK	17 March 2011	Event - meeting and articles	General meeting and articles: "Hedemarkedet bliver permanent forening", "Hedemarkedet bliver til forening", "Hedemarkedet er nu en forening"	Lokalavisen Taastrup	Citizens	23,565	Danish
HOUSE-BE	1 April 2011	Press release + articles	'Evangelische kerk gaat tegen de vlakte' (Het Nieuwsblad, 2/4/2011) Citizens of Kortrijk + wider region				
BALTIC-LT ASSOC-LT	1 April 2011	Leaflet	Development of the coloured brochure about ECO-Life project in Biršonas, expected results etc., (the brochure will be updated once).		Citizens of Kortrijk + wider region	Unlimited	Dutch
MUN-DK	27 April 2011	News on Høje Taastrups the home page	Høje-Taastrup Kommune åbnede for tredje runde af ansøgninger til projekt "testenelbil.dk". Der skulle findes ti nye familier, som havde lyst til – kvit og frit – at teste en elbil i tre måneder.	http://www.htk.dk/Nyheder/Nyhedsoversigt/Pressemeddelelser/2011/April_11/Ny_runde_for_testenelbil_dk.aspx	Citizens	Unlimited	Danish
RTD-DK	1 Maj 2011	Article	Småbørnsfamilie skal teste lavenergihuse	News in local newspaper in Høje Taastrup	Citizen in HTK	unlimited	Danish
HOUSE-BE	June 2011	Newsletter Goedkope Woning (about ECO-Life Venning)	Goedkope Woning Info 02		Tenants of Goedkope Woning and involved people	250	Dutch
ASSOC-LT BALTIC-LT **Organizer:** ASSOC-LT Venue: premises of UAB "Vilniaus vystymo kompanija" (construction and real estate property administration services), Vilnius	7 June 2011	Meeting	Presentation 1: "Sustainable Zero Carbon ECO-Town Developments Improving Quality of Life across EU - ECO-Life", Dr. L. Užšilaitytė, BALTIC-LT Presentation 2: "Viešųjų pastatų modernizavimo problemos ir galimybės. Nuo koncepcijos „Biršonas-ECO miestas" iki projekto „ECO life"" (Problems and opportunities of modernization of public buildings in Lithuania. From concept "Biršonas – ECO city" to the project ECO-Life), Dr. V. Šarka, ASSOC-LT		Representatives of UAB "Vilniaus vystymo kompanija", BALTIC-LT, ASSOC-LT	Unknown	Lithuanian
ASSOC-LT IDEA-LT BALTIC-LT UNI-LT Venue – Vilnius Organizer – Všį „Aplinktave" Partner – Lithuanian Builders Association (LSA)	9 June 2011	Conference "Nulinės energijos pastatų link – 4" (Towards Zero energy Buildings – 4)	Conference "Nulinės energijos pastatų link – 4" (Towards Zero energy Buildings – 4)	Press release: http://www.interjeras.lt/naujiena/nulines-energijos-pastatu-link-4-dedikuota-statybu-sektoriaus-at			Lithuanian
ASSOC-LT BALTIC-LT UNI-LT IDEA-LT URBAN-LT **Organizer:** ASSOC-LT Venue: premises of UAB "Vilniaus vystymo kompanija" (construction and real estate property administration services), Vilnius	1 July 2011	Meeting	Presentation 1: "Sustainable Zero Carbon ECO-Town Developments Improving Quality of Life across EU - ECO-Life", Dr. L. Užšilaitytė, BALTIC-LT. Co-author: dr. V. Šarka, ASSOC-LT Presentation 2: Pastatų modernizavimas Lietuvoje, problemos ar galimybės? Nuo koncepcijos Biršonas-ECO miestas iki projekto ECO life" (Modernization of buildings in Lithuania, problems or opportunities? From "Biršonas – ECO city" concept to the project ECO-Life), dr. V. Šarka, ASSOC-LT. Co-authors. dr. E. Šarkienė, IDEA-LT; dr. L. Užšilaitytė, BALTIC-LT; dr. T. Vilutienė, UNI-LT	Press release: http://www.atnaujinkbusta.lt/index.php/lt/nv/atnaujink-busta/naujienos/seminaras-birstonas-eko-miestas	Agency, business organizations, associations, university, construction eksperts		Lithuanian

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
HOUSE-BE	12 July 2011	Event with minister of Energy and Housing	First stone laying event ECO-Life Venning		Politicians, citizens, partners ECO-Life, building contractor	250	Dutch
HOUSE-BE	12-15 July 2011	Press articles and inte	Press articles and interview on the occasion of the first stone laying event ECO-Life Venning 'Reportage on WTV (local television), 12/7/2011 'eerstesteenlegging voor ecologische modelwijk' (Het laatste nieuws, 13/7/2011) 'Freya besmeurt kleedje bij eerstesteenlegging modelwijk' (Het Nieuwsblad, 14/7/2011) 'Eerste steen voor ecowijk Venning', (Krant van West-Vlaanderen, 15/7/2011)		Citizens of province of West-Flanders	Unlimited	Dutch
BALTIC-LT ASSOC-LT	1 August 2011	Information for CONCERTO Premium	Answers to CONCERTO Premium questionnaires	CONCERTO Premium		n.a.	English
RTD-DK	6 September 2011	Article	Småbørnsfamilie kaster sig ud i ny teknik	Local paper i Høje- Taa	Citizen in HTK	Unlimited	Danish
House of the Province, Ghent	21 October 2011	Lecture	Nature, water & entrepreneurship' - Water in the Venning project	H. Jult	Engineers, lawyers	200 participa	Nederlands
UNI-LT	12-13 October 2011	The 52nd International Scientific Conference of Riga Technical University "Energy Resources 2011" Section "Environmental and Climate Technologies"	Presentation: Possibilities of Heat Pumps Integration for the Renovation of Dwelling Houses prof. habl. dr. V. Martinaitis, assoc. prof. dr. G. Šiupšinskas	Riga Technical Universi	Universities, business		English
MUN-LT	1 November 2011	Article in the journal	"Birštonas stiprina pozicijas" (Birštonas strengthens its positions)	Journal "Statyba ir architektūra" (Construction and Architecture),2011, No 11, p. 46–47	Architects	4000	Lithuanian
MUN-LT	1 November 2011	Article in the journal	"Birštonas stiprina pozicijas" (Birštonas strengthens its positions)	Journal "Statyba ir architektūra" (Construction and Architecture),2011, No 11, p. 46–47	Architects		Lithuanian
HOUSE-BE	November 2011	Newsletter Goedkope Woning (about ECO-Life Venning – 1st stone laying event / Gütenberg)	Goedkope Woning Info 03		Tenants of Goedkope Woning and involved people	2500	Dutch
MUN-DK	7 November 2011	Dansk bil komite	Fejring af åbning af Quick Charge-station i Hedehusene	http://www.danskelbilkomite.dk/	Citizen	Unlimited	Danish
UNI-LT ASSOC-LT BALTIC-LT IDEA-LT Organizers: Association "Lithuanian-German forum", Birutė Galdikas' international environmental charity and support fund, Vilnius Gediminas Technical University, Ministry of	9 November 2011	Conference	Presentation 1: Birštono daugiabučiai namai ir jų modernizavimo (techninė) galimybė (Birštonas multi-apartment buildings and their modernization possibilities (technical)), Dr. Č. Ignatavičius, dr. T. Vilutienė, UNI-LT Presentation 2: Daugiabučių namų energinių sistemų modernizavimo galimybės. Birštono pavyzdys (Modernization of energy systems in multi-apartment buildings. Birštonas case), Dr. G. Šiupšinskas, UNI-LT Presentation 3: „Pastatų modernizavimo finansavimo problemos. Eco - life projekto pavyzdys (FP7, CONCERTO programa)" (Building modernization financing issues. ECO-life case. (FP7, CONCERTO program) Dr. V. Šarka, ASSOC-LT. Co-authors. dr. E. Šarkienė, IDEA-LT; dr. L. Užšilaitytė, BALTIC-LT; dr. T. Vilutienė, UNI-LT	International conference "Green Energy: Business fair"	University, ministries, agencies, associations, architects, private companies, bank		Lithuanian
MUN-LT Organizers: Administration of Šiauliai City Municipality Venue: Šiauliai	17 November 2011	Conference	Presentation: Kvartalinė pastatų modernizavimo problematika. Birštono savivaldybės patirtis (Problems of modernization of buildings blocks. Experience of Birštonas municipality) A. Šabanas, MUN-LT	Energy efficiency day (Urban Energy project dissemination)	Administration of Šiauliai city municipality, citizens, representatives of municipalities		Lithuanian
UNI-LT ASSOC-LT	20 November 2011	Article on internet portal	Interview for the article "Specialistai: namo renovacija gali būti kaip loterija" (Experts: building renovation can be a lottery)	Web portal: www.delfi.lt			Lithuanian
MUN-DK	21 November 2011	News on Høje Taastrups the home page	Elstander i Hedehusene inviet	http://www.htk.dk/Nyheder/Nyhedsoversigt/Forsidenyheder/2011/November_11/Elladestander_i_Hedehusene_indviet.aspx	Citizen	Unlimited	Danish
MUN-DK	24 November 2011	News on Høje Taastrups the home page	Torsdag den 24. november kl. 19.30-21.30 blev der afholdt informationsmøde om Design- og Energipakker til boligejere.På mødet introducerede borgmester Michael Ziegler det nye 4-årige initiativ - Go'Energi|Høje-Taastrup.	http://htk-klima.odeum.com/dk/boligen/arrangementer/saetter_du_pris_paa_din_bolig_november_2011/	Citizen	Unlimited	Danish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
ASSOC-LT BALTIC-LT	1 December 2011	Article in the journal	Article "Birštonas – Eco-Life miestas" (Birštonas – Eco-Life town)	Journal "Statyk" (Build), No 9(81), 2011, p. 26			Lithuanian
ASSOC-LT BALTIC-LT	November-December 2011	Article in the magazine	Article "Birštonas – Eco-Life miestas" (Birštonas – Eco-Life town)	Magazine "Statybų žinios" (Construction News), No 8(57), November-December 2011			Lithuanian
MUN-DK	6 December 2011	News on Høje Taastrups the home page	Informationsmøde om Design- og Energipakker - med detaljeret gennemgang af aftalegrundlag for at opnå EU-tilskud	http://htk-klima.odeum.com/dk/boligen/arrangementer/design-_og_energipakker_-_december_2011/	Citizen	Unlimited	Danish
MUN-DK	8 December 2011	News on Høje Taastrups the home page	Fokusgruppeinterview - af boligejere der er interesserede i at få en Design- og Energipakke Til fokusgruppeinterviewet deltog der 8 husstande, hvor man kom rundt om forskellige emner inden for temaet klima og energi	http://htk-klima.odeum.com/dk/boligen/arrangementer/fokusgruppe_interview_-_december_2011/	Citizen	Unlimited	Danish
COWI-DK	16 December 2011	CONCERTO Premium newsletter	Newsletter for Smart Energy Solutions in Cities and Communities	http://concerto.eu/concerto/index.php?option=com_acymailing&ctrl=archive&task=view&mailid=10&key=53fd0a68bfdfaf64fd66610775cf0ed0&subid=2447-728b9296e7d7eb8c8d673a493804c0ed	All	Unlimited	english
MUN-DK	December 2011	News on Høje Taastrups the home page	Goenergi.htk invitation til proces om energirenovering af de15 parcelhuse arkitektkonkurrence down-town	http://htk-klima.odeum.com/dk/boligen/goenergi-htk/	Citizen	Unlimited	Danish
BALTIC-LT MUN-DK ASSOC-LT	July & December 2011	Information for CONCERTO Plus website about Eco-Life project in Birštonas	Information and photos was provided for CONCERTO Plus website about Eco-Life project in Birštonas	CONCERTO Plus website			English
UNI-LT	2011	Scientific article	Scientific article "Energy Efficiency Challenges in Multi-Apartment Building Renovation in Lithuania", Dr. D. Biekša, dr. G. Šiupšinskas, prof. habil. dr. V. Martinaitis & dr. E. Jaraminienė	Journal of Civil Engineering and Management, 2011, 17:4, 467-475	Engineers		Lithuanian
RTD-DK	2011	Article	Teknologisk tjekker om det er rart at spare	Energi og miljø	Citizen	1 mio	Danish
MUN-DK	6 January 2012	Radio interview	Radio Coverage P4 KBH (Copenhagen radio channel) 6/1 7:30 am about Go'Energi | High-Taastrup. Building owner Helle Lyngbye gets radio publicity telling that her family wants to take responsibility and therefore they are using as little energy as possible for heating and electricity. Steen Olesen participated inthe interview and said that as a homeowner in HTK (mainly Fløng-Hedehusene area) you can address small-and / or big questions about energy savings, because the municipality cooperates with a number of parties about making it easier to realize energy savings in the home.	National radio channel: P4 KBH The Interview was brought a number of times during Friday 6.1.2012 and, together with a follow-up newspaper article in the local newspaper. The respons has been about 30 interested homeowners. Much of which has been very serious in relation to the level of ambition of their plans for housing improvement	Citizen	Unlimited	Danish
Transition arena DUWOBO	19 January 2012	Workshop. Lecture+discussion panel + visit construction area	Venning, a zero energy social housing project in Kortrijk	I. Piers & H. Jult	'DuzaWijken' is a public - private multiprofessional subworkgroup, a broad network of involved actors in the theme. The group reflects on presented cases about the ambitions and experience in practice, the opportunities and barriers in content and proces.	25 participants	Nederlands
MUN-DK	25 January 2012	Presented on the danish tv channel TV2. Shown on the local program "Lorry" (sending to the Copenhagen area)	Power voltiacs on the city hall	http://www.lorry.dk/arkiv/2012/01/23?video_id=63582&autoplay=1	Approx. 2 mio.	Unlimited	Danish
MUN-DK	31 January 2012	News on Danish Society for Nature Conservation the home page	DN klimaborgmester-tur, link til samlet dækning af dagen	http://www.dn.dk/Default.aspx?ID=28710	Citizen	unlimited	Danish
MUN-DK	January, 2012	Climate video for Høje Taastrup	Go' Energi i Høje-Taastrup. Klimastatus 2012	http://www.youtube.com/watch?v=ysoNL5WYlhY	Citizen	unlimited	Danish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
HOUSE-BE + H. Jult	3 February 2012	Article	Batibouw: Congress illustrates sustainable building in practice	Digital newsletter construction and building sector	Architects, engineers, builders, developpers	unlimited	Dutch, French
HOUSE-BE	7 February 2012	Lecture	Energie in de stad. Lecture about ECO-life Venning	http://www.kenniscentrumvlaamsesteden.be/overhetkenniscentrum/Nieuwsbrief/Documents/2012/2012%200110%20programma%20Antwerpen.pdf	Local governments	20	Dutch
H. Jult & I. Piers	1 March 2012	Lecture	Durabilité, et maintenant la pratique'	Batibouw, building & construction exibition - Heizel, Brussels	Architects, engineers, buiders,	250 attendees	French/Nederlands
H. Jult	10 March 2012	Lecture + presentation ECO-Life projects	Venning, a CO2- neutral social housing project. Opportunities & obstacles	Yearly event - 'I'm architect' - Loods 21, Ghent	Architects, developpers,	500 attendees	Nederlands
H. Jult	13 March 2012	Lectures & workshops	Better living for everyone' - Workshop 5: Sustainable building by a social housing company	House of the Province of East - Flanders, Ghent	Officials, architects, broad public	150 participants	Nederlands
HOUSE-BE, H. Jult	14 March 2012	Workshop, roundtable	Sustainable and creative cities	Conference on housing policy	Officials, public sector, architects, builders...	300 participants	Nederlands
MUN-DK and INFO-DK	22 March 2012 5 April 2012	Marketday	Hedemarket	Event	Citizens of HTK	10000	Danish
ASSOC-LT	20 March 2012	Presentation at the conference	Conference held at Alytus city municipality on energy conservation. Presentation title: Refurbishment of buildings - unutilized potential. From concept "Birštonas-ECOcity" till project "ECO-Life" / Pastatų modernizavimas – neišnaudotos galimybės. Nuo koncepcijos „Birštonas-ECO miestas“ iki projekto „ECO-life“.	Conference	Architects, representatives of municipality, owners of multi-apartment buildings	80	Lithuanian
BALTIC-LT	29 March 2012	Flyers dissemination at the conference	Conference held at Danish Embassy. Conference title: Future needs and tendencies in sustainable building/Ateities poreikiai ir tendencijos darnioje statyboje	Conference	Architects, representatives of municipalities, regional agencies, other interested institutions and organizations	60	Lithuanian
ASSOC-LT	March, 2012	Alytus city municipality	Presentation: Refurbishment of buildings - unutilized potential. From concept "Birštonas-ECOcity" till project "ECO-Life" / Pastatų modernizavimas – neišnaudotos galimybės. Nuo koncepcijos „Birštonas-ECO miestas“ iki projekto „ECO-life“. Dr. Vaidotas Šarka, Dr. Edita Šarkienė, Dr. Lina Užšilaitytė, Dr. Tatjana Vilutienė	Conference	Architects, representatives of municipality, owners of multi-apartment buildings	150 participants	Lithuanian
MUN-DK and INFO-	March 2012	Article	Advertising about Hedemarket (a market for the citizen about RE and energy efficiency)	Lokalavisen (local paper) Taastrup	Citizens of HTK	23,565	Danish
INFO-DK	April 2012	Article	A good beging for Hedehusene	Lokalavisen (local paper) Taastrup	Citizens of HTK	23,565	Danish
MUN-DK and INFO-DK	27 April 2012	Article	The first stories about Hedehusene	Lokalavisen (local paper) Taastrup	Citizens of HTK	23,565	Danish
INFO-DK	May 2012	Article	More stories about Hedehusene	Lokalavisen (local paper) Taastrup	Citizens of HTK	23,565	Danish
MUN-DK and INFO-DK	2 May 2012	Article	Focus on PVs	Lokalavisen (local paper) Taastrup	Citizens of HTK	23,565	Danish
MUN-DK and INFO-DK	8 May 2012	Article	Solarday on saturday	Local paper Hedehusene	Citizens of HTK	23,565	Danish
ASSOC-LT	11 May 2012	Presentation at the converence	Conference held at the Parlament of the Republic of Lithuania (Seimas). Presentation title: Refurbishment of buildings - unutilized potential. From concept "Birštonas-ECOcity" till project "ECO-Life" / Pastatų modernizavimas – neišnaudotos galimybės. Nuo koncepcijos „Birštonas-ECO miestas“ iki projekto „ECO-life“.	Confenrence	Members of the Parliament, other interested parties. Conference was available life on Internet, and materials can be found at the website of the European Information Office of the Seimas	500	Lithuanian
MUN-DK and INFO-DK	10-12 May 2012	Information http://solardays.dk/	Internation Solar days	Event	Citizens of HTK	10000	Danish
H. Jult	12 May 2012	Lectures	Venning, a CO2- neutral social housing project. Opportunities & obstacles	Yearly event - 'I'm architect' - Loods 21, Ghent	Architects, developpers,	500 attendees	Dutch
H. Jult / N. Latruwe	13 May 2012	Event	Open construction site day'	Construction site Venning	Residents, all kind of people	200 visitors	Dutch
INFO-DK	22 May 2012	Article	Tribute to solar energy	Lokalavisen Taastrup	Citizens of HTK	23,565	Danish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
BALTIC-LT	23 May 2012	Presentation at the conference	Presentation title: CO2 neutral city - is it possible?/CO2 neutralus ekomiestas – ar tai įmanoma?; Conference "The Efficiency of Energy Consumption in Lithuania – what could we do more?"/"Energijos vartojimo efektyvumas Lietuvoje: kokių galimybių neišnaudojame?"; Conference held during the 20th International Specialised Industry Exhibition : industrial equipment, energy, electrical engineering, components, measuring devices, subcontracting (BALTTECHNIKA 2012, http://www.litexpo.lt/en/main/fairs?ID=26655)	Conference	Scientists, participants of the specialised industry exhibition	40	Lithuanian
MUN-DK	6 June 2012	Presentation and site visit	Wednesday, 6 June at. 18.00 -21.30 the Planning and Environment Committee and Technical Committee were invited to 1 ½ hour tour at IKEA, followed by 2 x 1 hour committee meetings in IKEA's premises. Presentation of possible placement and subsidies for wind turbine at site visit at IKEA office can be found under supp. diss. WP9, Y3 (possible placement of wind mills)	Visit	Municipal decision makers	15	Denmark
H. Jult / N. Latruwe	8 June 2012	Explanation on construction site	Visit of group of architects & engineers, Pottenbakkershoek & Venning site	Construction site	Architects, engineers	48 participants	Dutch
UNI-BE	15 June 2012	Flemish workshop on ICT in European projects	ECO-Life monitoring goals and use of ICT	Location: Kamp C, Westerlo, Belgium	Flemish social housing partners involved in European projects (eSESH, CEM, icewish)	15	Dutch
H. Jult	28 June 2012	Workshop	Workshop on sustainable use of materials	Event	Builders, architects, civil servants,…	80	Dutch
UNI-LT	8-11 July 2012	Presentation at the conference	Presentation at the 25th EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH (EURO) conference, Vilnius	Article at scientific conference (internet source)	Scientists, European community	Unlimited	English
MUN-DK	10 September 2012	A guided tour in Høje Taastrup	Selection of the rational modernization measures	Visit	Politicians	3	English
INFO-DK	15 September 2012	Renewable energy and energy saving	Case of art school modernization in Birstonas city	Lokalavisen, Dagbladet, www.mec-ht.dk	Mostly local people with interest for energy sawing	400	Danish
MUN-LT	18 September 2012	Article on internet portal	Tatjana Vilutienė, Česlovas Ignatavičius	Article	Internet portal www.urbact.lt	Unlimited	
H. Jult	19 September 2012	Symposium	Eternit Symposium on Sustainable Building; lecture about sustainable design processes and presentation of the ECO-Life projects in Kortrijk	Conference + discussion	Architects, engineers, developpers, contractors, manufacturers	180	Nederlands (simultaneous translation in French)
INFO-DK	20 September 2012	Enery saving in an industry	Open house at Fløng Autocenter	Local paper - "Dagbladet Roskilde" , www.Hedehusene-erhvervforening.dk	Other people from the local industry	10	Danish
MUN-LT	20 September 2012	Article on internet portal	Article "Birštone bus įgyvendinamas ECO-Life projektas" (Biršonas will impelemnt project ECO-Life)	Internet portal www.birstonas.lt	Mostly local people with interest for energy	Unlimited	Lithuanian
MUN-LT	24 September 2012	Article on internet portal	Article "Birštone bus įgyvendinamas ECO-Life projektas" (Biršonas will impelemnt project ECO-Life)	Internet portal www.birstonietis.lt	Mostly local people with interest for energy	Unlimited	Lithuanian
MUN-LT	29 September 2012	Article in the newspaper	Article "Bus įgyvendinamas ECO-Life projektas" (ECO-Life project will be implemented)	Newspaper "Gyvenimas", 2012-09-29, p.4	Local people	??	Lithuanian
HOUSE-BE + H. Jult	5 October 2012	Symposium - presentation at the conference	Passive House Symposium, Brussels: lecture by Goedkope Woning & BURO II about the Venning project	Conference + discussion + networking	Architects, engineers, developpers, contractors, manufacturers, decision makers	450 participants	English (dutch, french in simul-taneous translation)
BALTIC-LTs	23 October 2012	Information to CONCERTO Premium	Interview to a freelance journalists, engaged by Steinbeis Europa Zentrum, to write a number of articles dealing with various aspects of the CONCERTO projects	Interview	Citizens of EU	n.a.	English
INFO-DK	Every first Thuesday each month, April til October 2012	Market in centre of Hedehusene	Hedemarkedet	Lokalavisen, Dagbladet,	Citizens of Hedehusene and surroundings	50-100 at each market	Danish
UNI-BE	16 November 2012	Presentation + paper	Simulatie van een warmtenet voor een CO2-neutrale woonwijk (Eng: Simulation of a district heating grid for a zero-carbon neighbourhood)	Symposium on 'Intelligent buildings for intelligent cities' (organised by ie-net and IBPSA-NVL), Antwerpen	Engineers in Flanders and the Netherlands	80 participants	Dutch
UNI-LT	2012	Scientific article	Scientific article "The use of solar energy for preparing domestic hot water in a multi -storey building", Dr. G. Šiupšinskas, S. Adomėnaitė	Journal Science – Future of Lithuania / Mokslas – Lietuvos Ateitis, 2012 4(5): 507–512	Peolple in the business	n.a.	English

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H. Jult + HOUSE-BE	18 January 2013	Presentation and site visit	Delegation of England, France and Belgium of the 'Interreg 2 Seas CROSS BORDER COOPERATION'.	Visit	The French and Brittish partners are also social housing	30	French, English
H. Jult	30 January 2013	Sustainability seminar in Mechelen	DUWOBO (Duurzaam Wonen en Bouwen) - Year program: Venning is proposed as a pilot project for Flanders	DuWoBo newsletter and other communication canals (ViA - Flanders in Action)	Government, administrations, universities, developpers, experts… on sustainability in Flanders	14	Dutch
ITC-SCAN	30 January 2013	Energy seminar in Horsens	Energy seminar with visit to boligforeningen Beringsgaard (showing the Aptus solutions)	http://www.mbbl.dk/nyheder/nyhed/konference-nye-veje-energirenovering	Mostly local people with interest for energy sawing	200	Danish
UNI-BE	January, 2013	Scientific poster on University event	Actual energy performance of a zero-carbon neighbourhood	Sustainable Energy Technologies SET5Y-event at Ghent University	Researchers, industry, academics	300	English
UNI-LT	2013 Winter	Article (in two parts) in the journal Structum, 2013 No. 2	The engineering solutions of heating and ventilation systems for the increasing of energy efficiency of renovated block of flats	http://www.structum.lt/	Profesionals: architects, engineers, builders, etc.	1000	Lithuanian
MUN-LT, BALTIC-LT, UNI-LT, ASSOC-LT	28 February 2013	Presentation in the conference. Conference organized by the Ministry of Foreign Affairs of Lithuania and the Britishh embassy in Lithuania	Presentation "Birštonas municipality's experience in implementing international „ECO-LIFE" project"	The conference was tehry widely published in the mass media, e.g., http://www.urm.lt/index.php?3069207526; http://www.birstonas.lt/index.php?141335368	Institutions of Lithuania, general public,	10000	English, Lithuanian
MUN-LT, BALTIC-LT, UNI-LT, ASSOC-LT	28 February 2013	Article in the web-site on ecologe and green environment	Birštone pradėtas pavyzdinis darnaus miesto projektas/Birstonas has started implementation of the sustainable city project	http://grynas.delfi.lt/aplinka/birstone-pradetas-pavyzdinis-darnaus-miesto-projektas.d?id=60799297	General public	10000	Dutch
MUN-DK et.al.	February 2013	Add in Newspaper	Selling the appartment in Lindehaven	Taastrup newspaper	Citizens of Taastrup and	7000	Danish
H. Jult	7 March 2013	Presentation and site visit	Association of Urban Planners		Discussion on Sustainable Urban Planning: the masterplan of Venning as an example and method of upgrading 20th century neighbourhoods	16	Dutch
HOUSE.BE	14 February 2013	Cover story in magazine	Article: 'Sociaal en duurzaam'	Trends	Business, Politics	60 000 readers	Dutch / French
H. Jult	28 February 2013	Event in Venning	Presentation of the Venning project and visit of the construction site	Visit	Developers	Vanhaerents Promotions	Dutch
H. Jult	7 March 2013	Presentation and site visit	Association of Urban Planners		Discussion on Sustainable Urban Planning: the masterplan of Venning as an example and method of upgrading 20th century neighbourhoods	16	Dutch
HOUSE-BE	19 March 2013	Presentation	VVSG energiedag - presentation of the ECO-Lifeproject		Local government	500	Dutch
H. Jult + HOUSE-BE	25 March 2013	Workshop in Brussels	DuWoBo - 'Opvolging bijeenkomst maatschappelijke 5-hoek duurzame wijken'		Follow up of the meeting of 30 January 2013	14	Dutch
HOUSE.BE + BURO.BE + H. Jult	1 April 2013	Article	Participatie van alle stakeholders'. Interview with Ilse Dries (VIA, DuWoBo…)	Media Planet	Marketing, …	50000 readers	Dutch
HOUSE.BE + H.Jult	19 April 2013	Workshop	Participation of ECO-Life in development of a business model for sustainable neighborhoods	VIA - Flanders in action	Flemish Government	selection of 15 participants	Dutch
HOUSE.BE + H.Jult	20 April 2013	Event in Venning	Presentation of the Venning project and visit of the construction site	Community Land Trust (CLT)	Group of CLT interested people from Ghent and Brussels	30	Dutch
HOUSE.BE + H.Jult	30 April 2013	Presentation	Participation of ECO-Life Venning as a pilot project in development of a business model for sustainable neighborhoods on VIA - Forum in Brussels	VIA - Flanders in action	Politicians (all levels), Flemish Government, journalists, companies, social housing companies, administrations, lobby groups, sectors industries	500	Dutch

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HOUSE.BE	April, 2013	Article	"Wonen in een passiefhuis: een voorrecht voor iedereen?" (Live in a passive house: a privilege for everyone?)	De Bond	(Important Flemish) Magazine for families	277950 readers	Dutch
EU	April, 2013	Beta version of ECOWEB	On www.ecoweb.info you will find the project profile and its eco-innovation related results' profiles displayed in a interactive platform, which guides users to search and share information about eco-innovations.	http://www.ecoweb.info/558_sustainable-carbon-ecotown-developments-improving-quality-life-eu-ecolife	People in the EU	n.a.	English
MUN-DK	April, 2013	Announcement on the web	The agreement on the development of "Gammelsø" has now been signed.	http://www.naerheden.dk/download/partnerskabsaftale-	Citizens of Taastrup and surroundings	n.a.	Danish
H. Jult + HOUSE-BE	April, 2013	Workshop in Brussels	Via (Flanders in Action) + DuWoBo - workshop on the development of a bussiness model for sustainable neighbourhoods	www.VIA.be	Government, administrations, universities, developpers,	16	Dutch
H. Jult + HOUSE-BE + BURO-BE	April, 2013	Site visit Venning + presentation	CLT (Community land trust) a group from Gent.	www.samenlevingsopbouw.be	Group of potential starters of a sustainable housing project in Ghent	30	Dutch, English
H. Jult + HOUSE-BE	April, 2013	Project information	ViA (Flanders in Action) - Venning project as a pilot project for Flanders in the yearly newsletter (publication)	www. Via.be	All people interested in sustainable building and housing	Unlimited	Dutch, English
HOUSE.BE + H.Jult	May 3, 2013	Lecture / Presentation	ECO-Life Venning, CO2-neutral social housing neigborhood in Kortrijk	Passive House Fair	All kind of people with interest in sustainable building	Participants lecture: 200; Participants Fair appr. 10000	Dutch / french
H. Jult + HOUSE-BE	May 3, 2013	Presentation of the Venning project + discussion	Passive House Trade Fair & Exibition - Brussels		All people interested in sustainable building and housing	150	Dutch
MUN-DK et.al.	Spring 2013	Adds in Newspaper Politikken	Sales of appartment at Lindehaven	See dissemination folder under year 4/EU deliverables on the COWI portal	Readers of the national newpaper	100.000	Danish
MUN-DK et.al.	Spring 2013	Adds in Newspaper Berlingske Tidende	Sales of appartment at Lindehaven	See dissemination folder under year 4/EU	Readers of the national newpaper	90.000	Danish
BURO-BE	11 June 2013	Inauguration event	The inauguration of the phirst phase of the ECO-Lifeproject buildings of Venning (82 passive appartments)	See dissemination folder under year 4/EU deliverables on the COWI portal	Invitation	??	Lithuanian
H. Jult + BURO-BE (N. Latruwe)	4 June 2013	Visit site Venning + presentation + first evaluation of the project	Architectscafé	www.B2ai.com	Architects & urban planners	100	Dutch, English
HOUSE.BE + H.Jult	4 June 2013	Event in Venning	Presentation of the Venning project and visit of the construction site. Discussion on sustainable building in social housing with a group of architects.	Visit / discussion	Group of architects	50	Dutch
HOUSE.BE + H. Jult	6 June 2013	Interview	B - passive Magazine (special social topic in July 2013): Interview with Ilse Piers & Herman Jult about the ECO-Life projects in Kortrijk	B- passive	Architects, developers, …	15000	Dutch
HOUSE-BE, BURO-BE,…	11 June 2013	Inauguration event	The inauguration of the phirst phase of the ECO-Lifeproject buildings of Venning (82 passive appartments)	See dissemination folder under year 4/EU deliverables on the COWI portal	Tenants of Goedkope Woning, neighbours, partners in ECO-Life, officials	250	Dutch, English
HOUSE.BE, BURO.BE	12 June 2013	Article in newspaper	Wijk Venning wordt een ecologisch paradepaardje'	Het Nieuwblad	Flemish newspaper (all citizens)	263 683 abonn.	Dutch
House.BE, BURO.BE	12 June 2013	Reportage on television	Ecologische woonwijk op Venning in Kortrijk ingehuldigd	Focus - WTV	Local television West-Flanders (all citizens)	145 000	Dutch
BURO.BE, MUN.BE	20 June 2013	Official visit	Official visit of the Venning project by the maire and his delegation of the city of Béthune (France) + the maire of Kortrijk	Promotion of the project accross the borders	Delegation of Béthune and Région Nord - Pas de Calais, France. Maire of Béthune and Kortrijk, politicians, officals,	12	French
RTD-DK	June, 2013	Scientific article	"Experimental Evaluation of the Discharge Coefficient of a Centre-Pivot Roof Window"	Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings			Engglish
UNI-BE	June 2013	International conference: paper + presentation	Potentials of the new design concepts of district heating and cooling toward integration with renewable energy sources	12th world wind conference and renewable energy exhibition, Cuba	International audience: researchers, engineers, specialists, students...	150	English

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H. Jult	June, 2013	Article in magazine	Sociale woonwijk Venning Kortrijk', interview with Herman Jult	Op de Werf West-Vlaanderen. Sectorinformatie & bouwprojecten van de regio	Architects, contractors, developers, local authorities	6500	Dutch
HOUSE.BE, BURO.BE, H. Jult	July, 2013	Article in magazine	Interview about the project Venning, especially the social aspects. Face to face with Ilse Piers and Herman Jult about the ECO-Life Venning project	B - passive (thema sociaal)	Quarterly Magazine about sustainable building and living. Readers in Belgium and the Netherlands	15 000	Dutch
HOUSE.BE + partners	July, 2013	Article in magazine	Article about the inauguration event and about the project Venning	Buurtkrant Wijk de Venning (neighborhood newspaper)	Inhabitants of the broader neighborhood	750	Dutch
UNI-BE	25-28 August 2013	International conference: scientific paper + presentation	"Heat losses in collective heat distribution systems - comparing simplified calculation methods with dynamic simulations"	The 13th International conference of the International building performance simulation association, Chambéry (www.bs2013.fr and http://www.ibpsa.org)	International audience: researchers, engineers, specialists, students...	600 (about 100 for this lecture)	English
UNI-BE	25-28 August 2013	International conference: scientific paper + presentation	"Performance evaluation of a low-temperature district heating system based on simulation, uncertainty and sensitivity analysis"	The 13th International conference of the International building performance simulation association, Chambéry (www.bs2013.fr and http://www.ibpsa.org)	International audience: researchers, engineers, specialists, students...	600 (about 100 for this lecture)	English
HOUSE.BE + H. Jult	11 September 2013	Visit & presentation	Visit of a delegation of VIBE (Vlaams Instituut voor Bio - Ecologisch bouwen en wonen) of the Venning site. Presentation, walk and discussion	VIBE	Flemish Institute for Bio - Ecologic housing and living	30	Dutch
COWI-DK	12 September 2013	Presentation	DTU international Energy conference	Conference	Mostly local people with interest for energy savings	100	English
BURO.BE	18 September 2013	Award Winner	"2020 Challenge 2013" Prestigious Belgian Award on Innovation (Architects, Engineers & consultants), Award of the professional jury fot the ECO-Life Venning project	HVAC 2013 (Brussels Expo)	Exibition on technical developments. Yearly award for the most innovative project	2 500 professionals	
COWI-DK	19-20 September 2013	Participation and Presentation	International conference at the black diamond in DK: Reaching Nearly zero-energy Building and CO2 targets through Urban development - by EU concerto class 1 project	Conference	Architects, engineers, developpers, contractors, manufacturers, decision makers	30	English
HOUSE.BE + H. Jult	24 September 2013	Visit & presentation	Visit + presentation + discussion	Raad van Bestuur (nieuwe samenstelling)	New board of Directors Goedkope Woning	12	Dutch
HOUSE.BE + H. Jult	27 September 2013	Architectura	Article concerning the "2020 Challenge 2013" Award.	Digital magazine about architecture in Flanders	Architects, schools, ….	(-)	Dutch
HOUSE.BE + H. Jult	27 September 2013	Article	Article concerning the "2020 Challenge 2013" Award.	Digital magazine - Bouw & Wonen (Bouwenwonen.net) - (Netherlands + Belgium)	Architects, developers, investors in property	(-)	Dutch
HOUSE.BE + H. Jult	27 September 2013	Article	Article concerning the "2020 Challenge 2013" Award.	"de Architect" (Netherlands + Belgium)	Monthly magazine for architecture	4000 abonn.	Dutch
HOUSE-BE	7 October 2013	Visit & presentation	Venning 1st phase : visit and presentation		Students bachelors immo	25	Dutch
HOUSE-BE + H. Jult	15 October 2013	Visit & presentation	Visit of developers and investors sustainable housing projects (private sector)	redevelopment of brownfields to residential housing	RE-VIVE, Colruyt,…	5	Dutch
COWI-DK	21 October 2013	Participation in meeting	CONCERTO coordinators' meeting	Meeting in Brussels, Belgium	CONCERTO coordinators	24	English
HOUSE-BE + H. Jult + BURO-BE	22 October 2013	Visit & presentation	ECO-Life Pottenbakkershoek. Visit + presentation + discussion	Raad van Bestuur (nieuwe samenstelling)	New board of Directors Goedkope Woning	12	Dutch
COWI-DK	22-23 October 2013	Participation in conference	CONCERTO conference "Energy solutions for smart cities and communities"	Conference in Charlemagne building in Brussels, Belgium		422	English
HOUSE-BE + BURO-BE	24 October 2013	Article	Invitation to the visit of ECO-Life Venning. Article about the the low energy and social aspects of the project.	Newsletter of BVA	Members of the association	1000	Dutch
UTIL-DK	24 October 2013	Presentation	Høje Tåstrup fjernvarme current and planned activities within the ECO Life Concerto III project	Introduction day/ Conference http://fivu.dk/	Consultants, engineers, fundraisers, project managers, lectors, directors and owners of various companies	100	Danish

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UNI-BE	October, 2013	Article in technical magazine for the Dutch HVAC-sector	"Simulatie van warmtenetten voor een CO2-neutrale woonwijk"	TVVL Magazine (http://www.tvvl.nl/)	Engineers, HVAC specialists, architects in the Netherlands and Flanders	app 4000	Dutch
HOUSE.BE + BURO-BE + H. Jult + UNI.BE	07 November 2013	Visit & presentation	Visit of BVA on the Venning site. Discussion about the ambitions of ECO-Life and the successfactors of the project. Sponsored by participant contractors and suppliers in the Venning project.	BVA	BVA: important architects association in Belgium, with ca. 1000 members	100	Dutch
BURO-BE	15 November 2013	Article in magazine	Article concerning the "2020 Challenge 2013" Award.	Industrie, technique et management'	Periodic	25 000	French
BURO-BE	27 November 2013	Article	Article concerning the "2020 Challenge 2013" Award.	Bouwnieuws'	Periodic	9 419	Dutch
COWI-DK	27 November 2013	Input to brochure	Gadehavegård - super low energy renovation concept for buildings	Information meeting	Residents	181	Danish
BURO-BE	1 December 2013	Article	"Bio-ecologisch testgebouw wint"Article concerning the "2020 Challenge 2013" Award.	Wonen met de natuur' (Living with nature)	Periodic	13 500	Dutch
HOUSE-BE + BURO-BE + H.Jult	3 December 2013	Visit & presentation	Venning: visit, presentation & discussion with a large delegation of the city of Ghent and social housing companies	Delegation	Politicians, social housing companies, administrations, social lobby groups	35	Dutch
HOUSE-BE + BURO-BE + H.Jult	5 December 2013	Visit & presentation	Press Event Van Marcke (Venning)	Delegation of clients	Contractors, employees, management	40	Dutch
IND-DK	18 December 2013	Presentation material	Rockwool international Office Building "Center 2"	IEA - SHC Task 47 Renovation of non-residential buildings towards Sustainable Standards Available on: http://task47.iea-shc.org/publications	Members of the Internation Energy Agency (IEA)	n.a.	English
COWI-DK	Developed 2011-2013	Input til guidelines (also presented at conference on January 29, 2013 by Energi Øresund)	Grønne retningslinjer for energiplanlægning i nye byområder	Available on http://www.energioresund.org/	Municipal planners and developers	150	Danish, Swedish
UNI-BE	January 2014	Scientific poster on University event	Actual energy performance of a zero-carbon neighbourhood	Sustainable Energy Technologies SET5Y-	Researchers, industry,	300	English
HOUSE-BE + H. Jult	14 January 2014 & 28 March 2014	Workshop	Investigating the feasibility of a collective vegetable garden project in Venning	VELT (Vereniging voor Ecologische Land- en Tuinbouw)	Goedkope Woning, City of Kortrijk, VELT, architects	6	Dutch
HOUSE-BE + H. Jult	16 January 2014	Questionnaire	Positive experiences and tips about communication on new sustainable projects	VVH (Association of Flemish housing company)	All of Flemisch social housing companies	n.n.	Dutch
HOUSE-BE + H. Jult	28 January 2014	Newsletter	Article about progress of ECO-Life projects	Info 6 - Newsletter Goedkope Woning.	Tenants of Goedkope Woning, local authorities and interested people	1600	Dutch
MUN-DK	1 February 2014	Common meeting with houseowners	Houseowners Vridsløsemagle	Meeting	Owner for singlefamily houses	14	Danish
IND-DK	07 February 2014	Visit of EU Commisioner	EC Commissioner for Climate, Connie Hedegaard	n.a.	High level EU, Commissioner, 2 assistants and 2 journalists	5	Danish
MUN-DK et.al.	11 February 2014	Newspaper	Landsbybeboere så på energibesparelser	Lokalavisen	Public	n.n.	Danish
HOUSE-BE + H. Jult + BURO-BE	11 February 2014 & 24 April 2014	Residents meeting	Communication and dissemination of the ECO - Life project, on the start of the 3th pilot project Drie Hofsteden	Meeting	Residents of 'Drie Hofsteden V'	80	Dutch
MUN-DK et.al.	14 February 2014	Newspaper	Nye samarbejdsformer skal skal styrke klimaindsatsen	Dagbladet	Public	n.n.	Danish
HOUSE-BE + H. Jult + BURO-BE	14 February 2014	Article	Duurzame sociale woonwijk Venning Kortrijk, CO2-neutrale woonwijk	www.vmsw.be	Vlaamse Maatschappij voor Sociaal Wonen: sociale huisvestingsmaatc happijen.		Dutch
MUN-DK et.al.	18 February 2014	Newspaper	Kursus i LED belysning	Lokalavisen	Public	n.n.	Danish
MUN-DK	27 February	Training	Thematic course on LED lighting	Course	Technical service personnel	25	Danish
MUN-DK	4 March 2014	Direct mail	Invitation Letter	Direct Letter Mail	Private house owners in Høje Taastrup	4000	Danish
MUN-DK	10 March 2014	Press release	Bedre Bolig - et tilbud til private boligejere Better Homes an offer to private home owners	www.htk.dk	Private house owners in Høje Taastrup	n.n.	Danish
MUN-DK	14 March 2014	E-mail	Information mail	E-mail	Private house owners in Høje Taastrup	7500	Danish
MUN-DK	17 March 2014	Meeting	Information recruitment meeting	Meeting	Single family house ownes	70	Danish
MUN-DK	20 March 2014	Press release	Bedre Bolig - flere boligejere har allerede benyttet sig af tilbud Better Homes - several houseowners have already used the offer	www.htk.dk	Single family house ownes	n.n.	Danish

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BURO-BE	20 March 2014	Visit & presentation	Visit of developers and investors sustainable care and housing projects (private sector)	Developers of innovative care projects (Triamant)	Care for Life'	6	Dutch
MUN-DK et.al.	21 March 2014	Newspaper	Stor interesse for Bedre Bolig	Dagbladet	Public	n.n.	Danish
HOUSE-BE	21 March 2014	Presentation	Presentation of the ECO-Lifeproject (incl. financial aspects) for social housing sector in Flanders ('Woonforum 2014' (www.woonforum2014.be) organised by VMSW (flemish government for social housing)	Presentation and discussion	Social housing sector	100	Dutch
MUN-DK	25 March 2014	Newspaper	Bedre Bolig: Flere boligejere har benyttet sig af tilbud	Lokalavisen	Public	n.n.	Danish
MUN-DK	26 March 2014	Gate 21 Meeting	Regional municipalities	Network meeting	Municipality officials, administrators a.o.	60	Danish
MUN-DK	27 March 2014	Meeting	Information recruitment meeting	Meeting	Single family house ownes	100	Danish
H. Jult	8 April 2014	Press text	Press tekst Gutenberg project - groundbreaking ceremony	National Press channels			Dutch
MUN-DK	14 April 2014	Press release of Open House	Open house on energy refurbishment	Open house annoucement	Public	n.n.	Danish
UNI-BE	15 April 2014	Scientific article and conference presentation	Dynamic analysis of flux and co-heating test measurements in a low-energy house for characterization of the energy performance.	International Energy Agency (IEA) Annex 58 6th international expert meeting, 14th - 16th April 2014, Ghent University, Belgium	International audience: researchers, engineers, , industries,	150	English
MUN-DK et.al.	24 April 2014	Newspaper	Åbent hus om energirenovering	Dagbladet	Public	n.n.	Danish
HOUSE-BE + H. Jult	29 April 2014	Event	Groundbreaking ceremony		Goedkope Woning, City of Kortrijk, architects, local press		Dutch
HOUSE-BE	April - May 2014	Article	"Pioniersproject leidt tot eerste CO2-neutrale wijk van België"	'Installatie en Bouw' (Installatie & Bouw is een onafhankelijk vakblad dat tweemaandelijks de maatgevende prestaties in de Vlaamse installatiesector presenteert)	Installateurs verwarming, elektriciteit, sanitair, klimatisatie en luchtbehandeling, leden van de VCB Vlaamse Confederatie Bouw, BVA Bond	5400	Dutch
HOUSE-BE	02 May 2014	Article	Goedkope Woning krijgt IWT-beurs voor Drie Hofstedenproject	Bouwkroniek	Tijdschrift bij Bulletin der aanbestedingen	12000	Dutch
IND-DK	14 May 2014	Site visits Høje Taastrup	Visit by candidates for the European Parliament	Visit	2 Politicians MEP, 2 MEP	4	Danish / English
MUN-DK	15 May 2014	Open House	Open house on energy refurbishment	Open House Event	Public	n.n.	Danish
IND-DK	19 May 2014	Site visits Høje	Visit by from MOHURD	Visit and discussions	6 Chineese	6	English /
HOUSE-BE + BURO-BE	27 May 2014	Presentation	Presentation and interactive discussion 'duurzame wijken' (transitiearena) - presentation of ECO-Life Venning as best practice example	Presentation and discussion	Officers & politicians of diferent governmental levels	100	Dutch
UNI-BE	27 May 2014	Lecture and presentation	Combilus techniek: meten is weten in passiefwijk Venning / analyse van warmteverliezen	ie-net en OVED Studiedag collectieve verwarmingsinstallaties voor apparatementen, woonkavels en stadswijken (Study day on collective heating systems for apartments, neighbourhoods and districts)	Architects, engineers, energy professionals, social housing companies, project developers	100	Dutch
IND-DK	28 May 2014	Site visits Høje Taastrup	Building Product Test Center, Ukraine	Visit and discussions	Republic Unitary Enterprise “Stroytechnorm”, which is the main enterprise in Belorussia in Technical normalization and Standardization, Material and Product Certification	3	English
HOUSE-BE + BURO-BE	June 2014	Article	"Architecturale zonwering in eerste CO2-neutrale wijk"	"Bouw & wonen"	Digital newsletter - (Belgium + The Netherlands)	12000	Dutch
MUN-DK	4 June 2014	Article in e-newspaper	Kæmpe solfanger på vej til Fløng *Large solar field on the way to Fløng*	Danish newspaper "Dagbladet"	public	n.n.	Danish
MUN-DK	5 June 2014	Presentation	Bedre Boliger	National Conference		150	Danish

Partner Involved	Date of publication	Type of activity	Name	Name of Media	Type of audience	Approx. Size of audience	Language
HOUSE-BE	19 June 2014	Visit & presentation	Presentation of the ECO-Life project Venning + visit site and project. Sensibilisation of colleagues social housing companies in the province of West-Flanders	Presentation and visit	Managing directors of social housing companies, and political responsibles	30	Dutch
BURO-BE + Herman Jult	19 June 2014	Lecture / Presentation	Lecture + discussion about the ECO-Life project in Kortrijk, after 5 years of progress	Seminar 'I'm Architect' in Gent	Architects	150	Dutch
BURO-BE + H. Jult + HOUSE-BE	26 June 2014	Visit & presentation	Presentation of the ECO-Life project Venning + Walk, also construction site. Dicussion on social, technical, ecological and economic aspects. Comparing the Belgian and French market.	French delegation of 'Nord Pas de Calais'	Architects, urban planners, local authorities and officers, social organizations, journalists	30	French
MUN-DK et. al.	26 June 2014	Meeting	Network for multi storey buildings established	Network meeting	Adminitrators for multistorey buildings	20	Danish
MUN-DK et. al.	27 June 2014	Meeting	Update of Climate Action Plan 2014-50	Meeting between expert partners	Expert partners	20	Danish
IND-DK et. al.	2 July 2014	Site visits Høje Taastrup	Danish Energy Authority	Visit and discussions	3 Danish State Officials	3	Danish
Herman Jult BE	3 July 2014	Interview	Interview about integrated design in sustainable projects, referring to Venning and ECO-Life. How to collaborate with other organizations (systematic collaboration vs ad hoc). It also includes yes/no questions about problems that tend to happen on (renovation) projects, and invites to propose possible solutions to those.	CeDuBo (Centrum Duurzaam Bouwen) + VITO (Vlaamse Instelling Voor Technologisch Onderzoek)	CeDuBo (& VITO), within the framework of a European program		English
BURO-BE + H. Jult + HOUSE-BE + UNI-BE	8 July 2014	Event	Inauguration event ECO-Life project Pottenbakkershoek		Tenants of Goedkope Woning, local authorities, neighbours of Evangelische kerk, architects & planners, partners EC-Life and interested people	50	Dutch
IND-DK et. al.	July 2014	Site visits Høje Taastrup	Visit by the magazine Global Insulation	Article later this year	Engineers, Architects and Building Industry	10000	English
BURO-BE + Herman Jult	21 August 2014	Interview	Interview + visit Venning project with French jounalist Bertrand Verfaille	writing for different media			French
IND-DK	25 August 2014	Site visits Høje Taastrup	Tianjin Urban-Rural Construction Commission, China	Visit and discussions	Chineese Engineers &Administrators		English / Chineese
UNI-BE	07-sep-14	Scientific article and conference presentation	Heat losses in collective heat distribution systems: an improved method for EPBD calculations	14th International Symposium on District Heating and Cooling, September 6-10, Stockholm (Sweden)	International audience: researchers, engineers, district heating specialists, industries, students...	300	English
UNI-BE	07-sep-14	Scientific article and conference presentation	Performance assessment of a low-temperature district heating system based on dynamic simulations and first monitoring results	14th International Symposium on District Heating and Cooling, September 6-10, Stockholm (Sweden)	International audience: researchers, engineers, district heating specialists, industries, students...	300	English
H. Jult	7 October 2014	Lecture	Lecture about ECO-Life and the Venning project	WINVORM WinVorm is een samenwerkingsplatform tussen de provincie West-Vlaanderen, de Vlaams Bouwmeester,	Audition of civil sevants, politicians, architects and academics	150	Dutch
HOUSE-BE + H. Jult	21 October 2014	Newsletter	Article about progress of ECO-Life projects	Info 7 - Newsletter Goedkope Woning.	Tenants of Goedkope Woning, local authorities and interested people	1600	Dutch
H. Jult	21 October 2014	Press text	Announcement of a 4th pilotproject: refurbishment of 'Drie Hofsteden' in Kortrijk	National Press channels			Dutch
HOUSE-BE + BURO-BE + UNI-BE + H. Jult	22 October 2014	Lecture	Lecture about ECO-Life Venning in Lille (France), Grand Palais	building exhibition 'Project City' à Lille	planners, developers, architects, contractors, manufacturers and decision makers	(-)	French
MUN-DK	08 November 2014	Article in newspaper	13.000 solceller på taget af City2 *13.000 solar panels on the roof of City2*	Danish newpaper "Dagbladet"	public	n.n.	Danish
MUN-DK	11 November 2014	Article in newspaper	13.000 solceller på taget af City2 *13.000 solar panels on the roof of City2*	Local newspaper ˝"Lokalavisen Taastrup"	public	n.n.	Danish
MUN-DK	12 November 2014	Article in newspaper	13.000 solceller på taget af City2 *13.000 solar panels on the roof of City2*	Local newspaper ˝"Vestegnen"	public	n.n.	Danish
MUN-DK	13 November 2014	Article in newspaper	City2 får Nordens største solcelleanlæg *City2 gets Scandinavia's largest solar pannel power plant*	Danish newspaper "Borsen" http://borsen.dk/nyheder/avisen/artikel/11/97995/artikel.html	public	n.n.	Danish
HOUSE-BE + H. Jult	13 November 2014	Presentation	Candidature 'Price Wivina Demeester'	award for exemplary co	all commissioners of projects in 2013-14	(-)	Dutch

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MUN-DK	15 November 2014	Presented on the danish tv channel TV2. Shown on the local program "Lorry"	Nordens største solcelleanlæg *Scandinavia's largest solar panel power plant*	TV2, Lorry channel http://www.tv2lorry.dk/arkiv/2014/11/15?video_id=97398	public	n.n.	Danish
MUN-DK	18 November 2014	Article in newspaper	Solcelleanlæg på størrelse med tre fodboldbaner *Solar panel power plant in a size of 3 football fields*	Local Newspaper '"Lokalavisen	public	n.n.	Danish
MUN-DK	19 November 2014	Article in newspaper	Minister indviede kæmpe solcelleanlæg på City2 *Minister inaugurated the large solar panel power plant on City2*	Danish newpaper "Berlingske"	Public	n.n.	Danish
HOUSE-BE + H. Jult	20 November 2014	Visit & presentation	Presentation of the Venning project and visit of the construction site by a social housing company 'Vlashaard' from Wevelgem.	Vlashaard' is a social housing company in the region of Kortrijk	director, Members of the Board and employees	20	Dutch
UNI-BE	25 November 2014	Scientific article and conference presentation	Building energy performance characterization based on dynamic analysis and co-heating test	XVII Scientific convention on engineering and architecture (17th CCIA) (Third international Congress on Environment and Sustainable Development) Haban, Cuba	International audience: researchers, engineers, , industries, students...	300	English
UNI-BE	25 November 2014	Scientific article and conference presentation	Simulation models and performance assessment of district heating substations	-do-	-do-	300	English
H. Jult	04 December 2014	Article	Courtrai: des logements sociaux éco - transfigurés'	La cronique. 'Les bâtisseurs: articles sur les projets présentés lors du salon Project City (Grand Palais, Lille	LA CHRONIQUE DU BATIMENT ET DES TRAVAUX PUBLICS: l'édition de magazines, revues et d'autres	(-)	French
HOUSE-BE	11 December 2014	Lecture and presentation	Development of ECO-Life projects	VIVES	students bachelors immo	30	Dutch
HOUSE-BE	15 December 2014	Article	Nu ook Europees geld voor renovatie Drie Hofsteden	Het Nieuwsblad	everybody	120000	Dutch
MUN-DK	25 December 2014	Article in e-newspaper	Miljøvenlig fjernvarme i Fløng Environmentally friendly district heating in Fløng	http://sn.dk	public	n.n.	Danish
MUN-DK	18 January 2015	Online article	Spidskompetencer sikrer Bjerg attraktive rammeaftaler *Key compentences gives Bjerg attractive framework*	www.building-supply.dk	Public	Internet	Danish
HOUSE-BE / H. Jult	5 February 2015	Visit & presentation	Presentation and visit of the ECO-Life project Venning by L' Equipe L'union Lille Métropole , + walk. Dicussion on social, technical, ecological and economic aspects. Comparing the Belgian and French market.	www.lunion.org	L'Union is one of five economic excellence sites in the Lille	15	French
BURO.BE	5 March 2015	Workshop	Workshop with Flemish Government, Department Kanselarij & Bestuur, Team Sustainable Development, about the development of a Sustainability Monitoring System for existing & new neighborhoods	www.duurzaamheidsmeter-wijken.be	Public	15	Dutch
BURO.BE / H. Jult	5 March 2015	Workshop	Work meetings 'district heating town Kortrijk'. Workshop district heating network Venning.	City of Kortrijk	Audition of civil sevants,	45	Dutch
MUN-DK	16 March 2015	Article	Totalrenovering med flerdobbelt gevinst *Deep renovation with multiple advantages*	BygTek.dk	Public	Internet	Danish
MUN-DK	16 March 2015	Online article	Første passivhusrenovering af boligblok *First passive house renovation of housing block*	http://www.dagensbyggeri.dk/artikel/83883-	Public	Internet	Danish
MUN-DK	18 March 2015	Article	Gadehavegård i forvandling *Transformation of Gadehavegård*	Dagbladet Roskilde	Public	5000	Danish
MUN-DK	25 March 2015	Article	Boligblok vil spare 85 procent på energien *Housing block are about to save 85 percent on energy*	Boligen	Public	Internet	Danish
MUN-DK	31 March 2015	Article	Solafskærmning behøver ikke være kedeligt! *Solar shading doesn't have to be boring!*	www.building-supply.dk	Public	Internet	Danish
HOUSE.BE & H. Jult	14 April 2015	Visit & presentation	Presentation and visit of the ECO-Life project Venning by international partnership HORIZON 2020 - project REFURB. Dicussion on social, technical, ecological and economic aspects and good practice.	REgional process innovations For Unique Renovation Building packages opening	Public / Private	25	English
MUN-DK	16 April 2015	Article	Boligblok sparer 85 procent energi *Housing blok saves 85 percent energy*	Erhvervsmagasinet Installatør	Public	Internet	Danish
MUN-DK	20 April 2015	Online article	Almen boligblok forvandlet til passivhus *Social housing block transformed to passive house*	Byggeri	Public	Internet	Danish
MUN-DK	28 April 2015	Article	Danmarks mest energieffektive blok (Denmarks most energyefficien block)	Lokalavisen Høje Taastrup	Public	25000+	Danish
MUN-DK	1 May 2015	Publication of municipal strategic energy and climate action plan 2020	Mod en fossilfri fremtid - Strategisk energi- og klimaplan 2020 Executive summary - *Strategic energy and climate plan 2020 - A future free from fossil fuels*	http://www2.htk.dk/Teknik_og_miljoecenter/Klima/Strategisk-Energi-og-Klimaplan-2020.pdf	Public	Internet	Danish
UNI-BE	26 May 2015	Meeting with academic experts on replicability of Eco-life learning in a VLIR	Meeting with the Dean of the Faculty Architecture at Higher Technological Institute of Havana "Jose A. Echeverria". (CUJAE)	Presentation + discussion	Specialists	7	English
UNI-BE	28 May 2015	Scientific conference article	Influence of recirculation strategies in collective heat distribution system on the performance of dwelling heating substations	https://biblio.ugent.be/publication/7036593	Public	150 + Internet	English
UNI-BE	15 June 2015	Conference presentation	Presentation "Energy and comfort performance assessment of low-energy buildings connected to low-temperature district heating" on 6th International Building Physics Conference (IBPC 2015) in Torino, Italy	Presentation	Specialists, Engineers	100	English
UNI-BE	17 June 2015	Conference presentation	Presentation "Operational performance of passive multi-family buildings: commissioning with regard to ventilation and indoor climate" on 6th International Building Physics Conference (IBPC 2015) in Torino, Italy	Presentation	Specialists, Engineers	100	English
BURO II & ARCHI+I	19 June 2015	Article	Venning Housing Estate in Kortrijk	http://www.e-architect.co.uk	Public	Internet	English
HOUSE-BE FOCUS WTV	19 June 2015	Video	Eerste CO_2 neutrale woonwijk in Kortrijk	http://www.focus-wtv.be/nieuws/eerste-co2-neutrale-woonwijk-	Public	Internet	Dutch

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HOUSE-BE DS De Standard	19 June 2015	Article	Kortrijkse wijk Venning van getto naar ecowijk	http://www.standaard.be/cnt/dmf20150618_01738102	Public	Internet	Dutch
HOUSE-BE	19 June 2015	Article	Venning: van getto naar ecowijk	http://www.nieuwsblad.be/cnt/dmf20150618_01737710	Public	Internet	Dutch
HOUSE-BE	19 June 2015	Article	Primeur voor Vlaanderen: eerste CO_2-neutrale sociale woonwijk ingehuldigd	http://ikgabouwen.knack.be/bouwen-renovatie/nieuws/primeur-voor-vlaanderen-eerste-co-2-neutrale-sociale-woonwijk-ingehuldigd/article-normal-580043.html	Public	Internet	Dutch
ALL PARTNERS. BE	19 June 2015	Inauguration Event	Inauguration ECO-Life project Venning, in presence of Minister President G. Bourgeois, Governor C. Decaluwé, maire V. Van Quickenborne and many others	Foto's Venning	Public / private	300	Dutch
HOUSE-BE	20 June 2015	Article	Bewoners Venning verhuizen naar ecowijk	http://www.hln.be/regio/nieuws-uit-kortrijk/bewoners-venning-verhuizen-naar-ecowijk-a2368187	Public	Internet	Dutch
House.BE	22 June 2015	Article	Inhuldiging CO2-neutrale woonwijk	Vakgroep Architectuur & stedenbouw	Public	Internet	Dutch
HOUSE.BE	25 June 2015	Article	Sustainable social housing estate Venning Kortrijk	Article in Archilovers	Public	Internet	English
HOUSE.BE	26 June 2015	Article	Mutation Courtraisienne'	Article in Echo & nouvelles	Public	Internet	French
HOUSE.BE	26 June 2015	Article	Weer leven in de Venning'	Article Kortrijks Handelsblad	Public	Internet	Dutch
COWI-DK	July 2015	Update og web page	ECOlife project	www.ecolife-project.eu	Public	Internet	English
UNI-BE	4 August 2015	Meeting with Eandis (Warmtenet direction)	Meeting with Eandis (Warmtenet direction) - discussion on substation evaluation, feasibility, findings and optimization of district heating network	Presentation + discussion	Specialists	8	Dutch/English
BURO II & ARCHI+I	10 August 2015	Article	Social Housing Estate Venning Kortrijk	ArchiTravel: http://www.architravel.com/architravel/building/social-housing-estate-venning-kortrijk	Public	Internet	English
BURO-BE	10 August 2015	Article	BURO II & ARCHI+I: First CO_2 neutral sustainable social housing estate Venning in Flanders [Kortrijk, Belgium]	http://www.archi-europe.com/news-2530-buro-ii-archii-first-co2-neutral-sustainable-socia.html	Public	Internet	English
BURO II & ARCHI+I	10 August 2015	Article	Social Housing Estate Venning Kortrijk	ArchiTravel: http://www.architravel.com/architravel/building/social-housing-estate-venning-kortrijk	Public	Internet	English
BURO-BE	10 August 2015	Article	BURO II & ARCHI+I: First CO_2 neutral sustainable social housing estate Venning in Flanders [Kortrijk, Belgium]	http://www.archi-europe.com/news-2530-buro-ii-archii-first-co2-neutral-sustainable-socia.html	Public	Internet	English
BURO.BE / H. Jult	20 August 2015	Visit & presentation	Visit ECO-Life projects Venning & Drie Hofsteden by 'Délégation Mairie de Lille'	Urban policy group Lille	Public	8	French
HOUSE.BE /BURO.BE / H. Jult	31 August 2015	Visit & presentation	Visit ECO-Lifeprojects Venning & Drie Hofsteden by Groupe Partenor (social housing developer Nord Pas de Calais)	www.partenor.com	Private	12	French
MUN-DK + COWI	17 Sept. 2015	Conference invitations	Kickstart of green transition of Danish Municipalities	Direct + Internet	Municipalities in DK and SE	Internet	Danish / English
MUN-DK	8 October 2015	Press release	Høje-Taastup med i globalt klimainitiativ	Press release on ECO-Life deomonstrations	Public	Internet	Danish
H. Jult	19 October 2015	Presentation & workshop	DuWoBo: pecha cucha Drie Hofdsteden + workshop 'What is the meaning of sustainability for people who can not afford it?'	www.duwobo.be	Public / Private	250	Dutch
MUN-DK	19 October 2015	Article	Konference: Kickstart af Grøn Omstilling i Danske Kommuner	Energiforum Danmark	Public	Internet	Danish
MUN-DK	19 October 2015	Article	Landsbyer på klimakortet	BygTek.dk	Public	Internet	Danish
MUN-DK	21 October 2015	Article	Vestegnen bygger sig ud af klimaproblemer	Licitationen, newspaper	Public	5000	Danish
UNI-BE	29 October 2015	Meeting with Alfa Laval expert on heating substation evaluation and test facilities procedures	Meeting with the Product Manager District Heating Systems of Alfa Laval	Presentation + discussion	Specialists	5	English
MUN-DK + COWI	29-30 October 2015	Factsheet	ECO-Life factsheets	MUN-DK homepage	Public	Internet	Danish / English

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MUN-DK + COWI + IND-DK + RTD-DK	29-30 October 2015	2 day conference and sitevisits	Kickstart of green transition of Danish Municipalities visions, tools, experience and funding	Conference	public, DK, BE, SE. LT	100	Danish / English
MUN-DK + COWI	29-30 October 2015	Launch of website	67 Klima- og energiprojekter *67 climate and energy projects*	http://htk-ecolife.dk/	Public	Internet	Danish
MUN-DK	29-30 October 2015	Flyer	67 Klima- og energiprojekter *67 climate and energy projects*	http://htk-ecolife.dk/	Public	Internet	Danish
MUN-DK + COWI	29-30 October 2015	List of conference participants	Deltagerlister - konference/middag/ekskursion	Conference folder	Conference participants	100	Danish
UNI-LT	30 October 2015	Conference presentation and participation	ECO-Life in Birstonas Lithuanis	Conference	Public	70	English
UNI-BE + HOUSE-BE + BURO-BE	30 October 2015	Conference presentation and participation	"ECO-Life in Belgium" at Kickstart of green transition of Danish municipalities	Conference	Public	70	English
UNI-BE	5 November 2015	Conference presentation	Presentation "Het belang van commissioning in energetisch performante woningen: de CO2-neutrale wijk Venning" at nzeb-symposium 2015 in Gent, Belgium	Conference website: http://www.nzeb.be/en	building specialists (architcts, engineers,	150 + internet	Dutch/ English
UNI-BE	30 November 2015	Scientific article	"Energy and comfort performance assessment of low-energy buildings connected to low-temperature district heating" in Energy Procedia, Volume 78	http://www.sciencedirect.com/science/article/pii/S1876610215030052	Public	Internet	English
UNI-BE	30 November 2015	Scientific article	"Operational performance of passive multi-family buildings: commissioning with regard to ventilation and indoor climate" in Energy Procedia, Volume 78	http://www.sciencedirect.com/science/article/pii/S1876610215024315	Public	Internet	English
MUN-DK + INFO-DK	1 December 2015	Energy saving campaign	Deltag i vandsparekonkurrencen og vind	Letter	Inhabitants of Engvadgård	178	Danish
HOUSE-BE + UNI-BE + BURO-BE	8 December 2015	Living in the Venning buildings (Venning phase): information and energy saving talk	Bewonersvergadering Venning F2 (1)	Presentation + Document	Inhabitants of Venning Fase 2	30	
MUN-DK + INFO-DK	15 December 2015	Energy saving campaign	Indkaldelse til møde om energiforbrug og vandsparekonkurrence	Letter	Inhabitants of Engvadgård	178	Danish
HOUSE.BE / H.Jult	17 December 2015	Inauguration Event	Inauguration ECO-Life project Gutenberg.	Pictures	inhabitants, Goedkope	250 invitees	Dutch
BURO.BE / UNI.BE	13 January 2016	Meeting with BBRI - discussion on feasibility, findings and costs of deep refurbishment in Venning phase 3	Meeting with Belgian Building Research Institute, Jeroen Vrijders	Presentation + discussion	Specialist	5	Dutch
HOUSE-BE/UNI.BE/	18 January 2016	Meeting with SumiBox: smart	SumiBox: Van monitoring naar sturing - vervolgproject	Presentation + discussion	Specialists	8	Dutch
HOUSE-BE/H.Jult	18 January 2016	Presentation	Presentation of the Drie Hofsteden project to the board of Goedkope Woning	Presentation + discussion	local politicians (Kortrijk)	12	Dutch
COWI-DK	February 2016	Update og web page	ECOlife project	www.ecolife-project.eu	Public	Internet	English
COWI-DK	15 March 2016	Site visists	Tour de ECO-Life	In person	Specialists fro Statbyg Oslo	6	Norwegian
HOUSE.BE/ H.Jult	21 March 2016	Press note	Persnota ivm Drie Hofsteden, eerste bewoning blok V + aanvang werken blokken IV en VI	Article local newspapers	Public	n.a.	Dutch
HOUSE.BE/ BURO.BE	31 March 2016	Meeting with tenants Drie Hofsteden	Presentation of the Drie Hofsteden project to all the tenants	Conference meeting	Inhabitiants of Drie Hofsteden	200	Dutch
HOUSE-BE/H.Jult	April 2016	Article	Social ecodistrict Venning in Kortrijk	Koevoet (No. 174)	Public	>5000	Dutch
MUN-DK	19 May 2016	Winner of Sustainability Award	KAB's Sustainability Award for Engvadgaard		Invited by KAB	100	Danish
MUN-DK + Energitjenesten	May 2016	tv-Interview with station in Hong Kong		TV Station in Hong Kong	Chinese tv viewers	7.000.000 + mio.	English
HOUSE.BE/ H.Jult	01 June 2016	Dissemination	Venning tender 'European Responsible Housing Awards'	Candidacy			English
RTD-DK	01 June 2016	Online project link	ECO-Life - the initiative to CO_2 neutral urban development in EU-municipalities	http://www.teknologisk.dk/eco-life-initiativet-til-co2-neutral-byudvikling-i-eu-kommuner/37190	Public technical persons	100.000	Danish
COWI-DK	02 June 2016	Update of home page	ECO-Life Sustainable zero carbon ECO-town developments improving quality of life across EU	www.ecolife-project.eu	Public	215000	English
MUN-DK + COWI	June 2015	Dissemination, homepages, presentations etc www.ecolife-project.eu	ECO-Life 2010-2016 har kickstartet den grønne omstilling i Høje Taastrup (ECO-Life 2010-2016 has kickstarted the green transition in Høje Taastrup	Video 2.09 minutes	Public	>5000	Danish / English
MUN-DK	June 2016	Dissemination, homepages, presentations etc	Strategic Energy and Climate Plan 2015-2020: Fossil Free Electricity Supply	Video intro 2.09 minutes	Public	>2000	Danish / English
MUN-DK	June 2017	Dissemination, homepages, presentations etc	Strategic Energy and Climate Plan 2015-2020: Energy Efficiency in buildings	Video intro 4.40 minutes	Public	>2000	Danish / English
MUN-DK	June 2016	Dissemination, homepages, presentations etc	Strategic Energy and Climate Plan 2015-2020: Fossil Free Heating & Cooling Supply	Video intro 1.57 minutes	Public	>2000	Danish / English
MUN-DK	June 2016	Dissemination, homepages, presentations etc www.ecolife-project.eu	Strategic Energy and Climate Plan 2015-2020: Fossil Free Heat Supply	Video intro 1.57 minuttes	Public	>2000	Danish / English
MUN-DK	June 2016	Dissemination, homepages, presentations etc www.ecolife-project.eu	Strategic Energy and Climate Plan 2015-2020: Fossil Free Transportation	Video intro 1.12 minuttes	Public	>2000	Danish / English
MUN-DK	June 2016	Dissemination, homepages, presentations etc www.ecolife-project.eu	Strategic Energy and Climate Plan 2015-20120: Fossil Free Heating	Video intro 1.57 minutes	Public	>2000	Danish / English
MUN-DK + COWI	June 2016	Dissemination, homepages, presentations etc www.ecolife-project.eu	Strategic Energy and Climate Plan 2015-2020: In Høje Taastrup we have the Qualifications to use Smart City	Full Video 16,24 minutes	Public	>2000	Danish / English
H. Jult	24 June 2016	Presentation and visit project Venning	Antwerp architects offices	Visit & discussion	Architects	50	Dutch

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BURO.BE	30 June 2016	Presentation & visit project Venning	Maire (+ delegation) of Werviq-Sud (France)	Visit & discussion	Politicians and officials	10	French
HOUSE-BE	July 2016	Article	Ambitious eco-architecture (eco-life Gutenberg Kortrijk)	Woonwoord (No. 37)	Public	4000	Dutch
UNI-BE	3 July 2016	Conference presentation	Thermal comfort and indoor air quality on end-user satisfaction level evaluation in a Nearly Zero Carbon neighbourhood	Conference : https://biblio.ugent.be/publication	Specialists, engineers	600 +Internet	English
HOUSE-BE	5 July 2016	Presentation & visit project Venning	Délégation de la commune de Wattrelos	visit + discussion	politicians and officials	8	French
MUN-DK	22 August 2016	Reception at town hall for single familiy house inhabitants	"ECO-Life - 15 succesfulde energirenoveringer" "ECO-Life - 15 succesfull energy refurbishments"	Mail	Inhabitants in single family houses	20	Danish
MUN-DK	11 Sept. 2016	Online article in newspaper	Fra utæt håndværkertilbud til energibesparende drømmehus "From leaky fixer-upper to energy saving dream house"	Jyllandsposten	Readers of the national newpaper	75.000	Danish
MUN-DK	13 Sept. 2016	Post at Høje Taastrup Municipality Facebook-profile	Fra utæt håndværkertilbud til energibesparende drømmehus "From leaky fixer-upper to energy saving dream house"	Facebook	Facebook-followers	4790	Danish
HOUSE-BE + BURO-BE	23 Sept. 2016	Presentation and visit project Venning	Creating informal 'embassadors' of ECO-Life Venning project	Visit & discussion	Staff and personell social economy partner	50	Dutch
UNI-BE	26 Sept. 2016	Conference presentation	Sensitivity analysis of heat losses in collective heat distribution systems using an improved method of EPBD calculations	Conference	Specialists, engineers	400 + Internet	English
BURO.BE	29 Sept. 2016	Conference presentation	Living Labs Brussels - project of Drie Hofsteden	Conference + discussio	network of specialists of different disciplines	30	Dutch/ French
HOUSE-BE	October 2016	Article	ECO-Life projects	Fundamenten (No. 4)	Public	4000	Dutch
UNI-BE	21 November 2016	Conference presentation	Sensitivity analysis of heat losses in distribution systems: impact of different buildings typologies	Conference	Specialists, engineers	300 +Internet	English
UNI-BE	23 November 2016	Conference presentation	Transforming social housing neighbourhoods into sustainable carbon neutral districts	Conference	Specialists, engineers, architects	300 +Internet	English
HOUSE.BE + all	23 November 2016	Conference presentation	European Housing Responsible Awards 2016	EU conference in Brussels		n.a.	English

8.2 List of deliverables

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
1.1.1	Minutes of meetings from kick-off workshop	WP1	O	RE
1.1.2	Inception report	WP1	R	RE
1.1.3	Amendments to Consortium Agreement and project Quality Management Plan	WP1	O	RE
1.1.4	Inputs and recommendations to plan the next 18 months work period	WP1	O	RE
1.2.1	Report summarizing and comparing the community analysis of demand and supply	WP1	R	RE
1.2.2	Technical information on the baseline and project for the CONCERTO plus data base	WP1	O	RE
2.0.1	Trans-community symposium in Denmark	WP2	O	RE
2.0.2	Working paper on socio-economic data	WP2	R	RE
2.1.1	Survey on public institutions	WP2	O	PU
2.1.2	Manual / instruction for preparing green accounts	WP2	O	PU
2.1.3	Climate homepage of Høje-Taastrup Municipality	WP2	O	PU
2.1.4	Catalogue of measures under the Høje-Taastrup Climate Plan for households, industry and transport	WP 2	O	PU
2.2.1	Report detailing the vision area	WP 2	R	PU
2.2.2	Input for local plans	WP 2	O	PU
2.2.3	Information material for tenants of ECO-Life community	WP 2	O	PU
2.2.4	Energy audits for selected public buildings	WP 2	O	RE
2.3.1	Conclusion note on Energy Audits in existing buildings	WP 2	O	RE
2.3.2	Architectural competition	WP 2	O	PU
2.3.3	Dialogue with architects and design plan for new buildings	WP 2	O	RE
2.3.4	Test report(s) from Energy Flex House	WP 2	R	PU
2.3.5	Working paper for smart metering/control info system	WP 2	R	RE
2.4.1	Low-temperature district heating network analysis report	WP 2	R	RE
2.5.1	Design plan for Heat Pumps and Geothermal	WP 2	O	RE
2.5.2	Preliminary design of central solar thermal plant	WP 2	O	RE
2.6.1	Terms for the wind turbine cooperative	WP 2	O	PU
2.6.2	Description of financing scheme for PV	WP 2	O	RE

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
2.7.1	Demonstration plan for demonstration of electrical vehicles and infrastructure	WP2	O	RE
3.0.1	Trans-community symposium in Lithuania	WP3	O	RE
3.1.1.1	Energy audits in residential buildings	WP3	R	RE
3.1.1.2	Dialog meetings and events with citizens	WP3	O	RE
3.1.2	Feasibility study for building envelope modernization	WP3	R	RE
3.1.3	Feasibility study for buildings heating, ventilation and electricity systems optimization	WP3	R	RE
3.1.4	Feasibility study for metering system installation	WP3	R	RE
3.2.1	Feasibility study for solar collectors, photo voltaic or wind turbine installations	WP3	R	RE
3.2.2	Feasibility study for geothermal heating instillation	WP3	R	RE
3.2.2.1	Dialogue meetings and events with citizens and developers (presentation of results 3.1.1 - 3.2.2)	WP3	O	PU
3.2.3	Feasibility study for RES share increase at the DH central	WP3	R	RE
3.2.4	Feasibility study for CHP installation at DH central	WP3	R	RE
3.2.4.1	Dialogue meetings with citizens and conclusion note on chosen measures based of 3.1.1.1-3.2.4	WP3	O	PU
3.2.5	Investigation study of rational solutions for buildings refurbishment	WP3	O	RE
3.3	Study for appropriate housing and housing renovation financing, legislative and institutional scheme	WP3	O	RE
3.4	Palanga community energy plan	WP3	O	RE
4.0.1	Trans-community symposium in Belgium	WP4	O	PU
4.0.2.1	Thematic workshop: Sustainable urban master planning	WP4	R	RE
4.0.2.2	Thematic workshop: Transport and traffic solutions	WP4	R	RE
4.0.2.3	Thematic workshop: Public space	WP4	R	RE
4.0.2.4	Thematic workshop: Attuning the measures and solutions to the intended public (social tenants)	WP4	R	RE
4.0.2.5	Thematic workshop: Development and management of collective facilities from a socio-economic perspective	WP4	R	RE
4.0.2.6	Thematic workshop: Control and Metering systems	WP4	R	RE
4.0.2.7	Thematic workshop: District heating systems optimised for low temperature and the integration of RES	WP4	R	RE
4.0.3.1	Dialogue meetings with local actors and/or residents	WP4	O	PU
4.1.1.1	Energy and building audits in households based on	WP4	R	RE

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
	BREEAM EcohomesXB listing			
4.1.1.2	Note on Energy and building Audits in existing buildings	WP4	R	RE
4.1.1.3	Master plan on development and planning of the social neighbourhood	WP4	O	RE
4.1.1.4	Design / Refurbishment's plan for existing build housing	WP4	O	RE
4.1.1.5	Zero-Energy guideline for building social housing	WP4	R	RE
4.1.2.1	Design plan for new build housing Pottenbakkershoek	WP4	O	RE
4.1.2.2	Design plan for new build housing Venning	WP4	R	RE
4.1.3	End note/ design on metering system	WP4	R	RE
4.2.1	Design plan for low temp. district heating network based on mini CHP-units e.g on biogas	WP4	O	RE
4.3.1	Design plan for PV	WP4	O	RE
4.4 .1	End note on sustainable transport measures (based on master plan) (public transport / car free zones)	WP4	O	RE
5.1.1.1	4573 m^2 ECO-buildings - A++ Passive Houses	WP5	D	PU
5.1.2.1	Modifications in 3 energy flex houses	WP5	D	RE
5.1.3.1	5,000 m^2 first refurbishment of dwellings	WP5	D	RE
5.1.3.2	5,000 m^2 next refurbishment of dwellings	WP5	D	RE
5.1.4.1	3,000 m^2 first ECO-buildings - A+ Class 1	WP5	D	RE
5.1.4.2	4,000 m^2 next ECO-buildings - A+ Class 1	WP5	D	RE
5.1.5.1	2,000 m^2 ECO-offices	WP5	D	PU
5.1.5.2	6000 m^2 ECO-school / inst.	WP5	D	PU
5.1.6.1	Prototype for metering/ demand response/ info system	WP5	P	RE
5.2.1	Low-temperature district heating buffer tanks and pipes	WP5	D	RE
5.3.1	Central solar plant 3000 m^2 of 20000 m^2 established	WP5	D	PU
5.3.2	Other heat solutions implemented	WP5	D	RE
5.4.1	1,2 MW large solar PV / wind turbine implemented	WP5	D	PU
5.4.2	First 100 m^2 PV installed	WP5	D	RE
5.4.3	Next 220 m^2 PV installed	WP5	D	RE
5.5.1	Poly-generation installed	WP5	D	RE
5.6.1	2-way metering system	WP5	D	RE
5.6.2	Smart grid solution for loading of electrical cars implemented	WP5	D	PU
5.7.1	Low-energy street lighting implemented	WP5	D	PU

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
6.1.1	ECO-buildings refurbishment	WP6	D	RE
6.2.1.1	Solar plants	WP6	D	RE
6.2.1.2	Biomass boiler house in DH central	WP6	D	RE
6.2.1.3	Flue gas economizer	WP6	D	RE
6.2.1.4	Photo voltaic plants	WP6	D	RE
6.3.1	CPH at DH central	WP6	D	RE
6.4.1	Energy metering system	WP6	D	RE
7.1.1	30 Zero-energy apartments (Pottenbakkershoek)	WP7	D	PU
7.1.2	57 Zero-energy dwellings	WP7	D	PU
7.1.3	163 Refurbished low energy dwellings	WP7	D	RE
7.1.4	Set-up of intelligent metering and climate impact system	WP7	D	RE
7.2.1	Set-up of district heating system based on mini CHP-units biodiesel fuelled	WP7	D	RE
7.3.1	Realisation of mini-CHP units	WP7	D	RE
7.4.1	Realisation of Photo Voltaic – first phase	WP7	O	RE
7.4.2	Realisation of Photo Voltaic – second phase	WP7	O	PU
7.5.1	As-built master plan of the apartments (Pottenbakkershoek)	WP7	D	RE
7.5.2	As built- master plan of the site and of the buildings	WP7	D	RE
7.6.1	Realisation of transport solutions	WP7	O	PU
7.7.1	Realisation of low-energy street lighting	WP7	D	PU
8.1.1	ECO-Life energy monitoring plan	WP8	R	RE
8.1.2	Monitoring report DK and update	WP8	R	RE
8.1.3	Monitoring report LT and update	WP8	R	RE
8.1.4	Monitoring report BE and update	WP8	R	RE
8.2.1	Input for CONCERTO plus database	WP8	O	RE
8.3.1	Report on end-user satisfactory level	WP8	R	RE
8.4.1	CO2 monitoring plan and updates	WP8	R	PU
9.1.1	Dissemination and Communication Strategy	WP9	R	RE
9.2.1.1	Meetings with potential new tenants	WP9	O	PU
9.2.1.2	Meetings with existing tenants in Hedehusene	WP9	O	PU
9.1.2.3	Meetings with new tenants in new buildings in ECO-Life	WP9	O	PU

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
	community			
9.2.1.4	Information material to ECO-Life citizens	WP9	O	PU
9.2.2.1	Meeting with developers	WP9	O	RE
9.2.2.2	Design note for developers	WP9	R	RE
9.2.3.1	Campaign for industries	WP9	O	PU
9.3.1	Meetings with citizens and end-users	WP9	O	PU
9.3.2	Meetings with developers	WP9	O	RE
9.3.3	Meetings with institutions	WP9	O	RE
9.4.1	Meeting with tenants informing and guidance	WP9	O	PU
9.4.2	Promoting campaign	WP9	O	PU
9.4.3	Design note for developers	WP9	R	PU
9.5.1	ECO-Life website	WP9	O	PU
9.6.1	Four-colour brochure / electronic	WP9	O	PU
9.6.2	Papers	WP9	O	PU
9.6.3	Participation and presentation at conferences	WP9	O	PU
9.6.4	Published ECO-Life best practise guide LT	WP9	O	PU
9.7.1	Project workshops	WP9	O	RE
9.8.1	Dev. of input to new CONCERTO Premium TMD tool	WP9	O	RE
9.8.2	Contribution to information material on request of CONCERTO Plus/Premium	WP9	O	PU
9.9.1	TIP Replication plan	WP9	O	RE
9.10.1	Video Høje Taastrup	WP9	O	PU
10.1.0	Training plan and programme	WP10	R	RE
10.1.1	Workshops for developers DK	WP10	O	RE
10.1.2	Seminar and 1-1 training of municipal officers	WP10	O	RE
10.1.3	Course for facility managers	WP10	O	PU
10.2.1	Workshops for housing developers LT	WP10	O	PU
10.2.2	Training of municipal authorities representatives LT	WP10	O	RE
10.3.1	Training events for end-users BE	WP10	O	PU
10.3.2	Workshops for design teams / developers BE	WP10	O	RE
10.4.1	Trainers workshops	WP10	O	RE
10.5.1	Participation in CONCERTO Plus/Premium training events	WP10	O	PU

Del. no.	Deliverable name	WP no.	Nature	Dissemination level
11.1.1	Quality Management Plan (COWI-DK)	WP11	R	RE
11.1.2	Project Management Portal (COWI-DK)	WP11	O	RE
11.2.1	Local project manual (COWI-DK)	WP11	R	RE
11.2.2	Periodical financial and technical reports (COWI-DK, BALTIC-LT, HOUSE-BE + all)	WP11	R	RE
11.2.3	Final reports	WP11	R	PU

8.3 Report on Societal Implications

A General Information *(completed automatically when **Grant Agreement number** is entered.*	
Grant Agreement Number:	TREN/FP7EN/239497
Title of Project:	ECO-Life
Name and Title of Coordinator:	Reto M. Hummelshøj Chief Project Manager

B Ethics	
1. Did your project undergo an Ethics Review (and/or Screening)? • If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports? Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 *'Work Progress and Achievements'*	*0Yes 0No*
2. Please indicate whether your project involved any of the following issues (tick box) :	***YES***
RESEARCH ON HUMANS	
• Did the project involve children?	
• Did the project involve patients?	
• Did the project involve persons not able to give consent?	
• Did the project involve adult healthy volunteers?	
• Did the project involve Human genetic material?	
• Did the project involve Human biological samples?	
• Did the project involve Human data collection?	
RESEARCH ON HUMAN EMBRYO/FOETUS	
• Did the project involve Human Embryos?	
• Did the project involve Human Foetal Tissue / Cells?	
• Did the project involve Human Embryonic Stem Cells (hESCs)?	
• Did the project on human Embryonic Stem Cells involve cells in culture?	
• Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?	
PRIVACY	
• Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?	
• Did the project involve tracking the location or observation of people?	
RESEARCH ON ANIMALS	
• Did the project involve research on animals?	
• Were those animals transgenic small laboratory animals?	
• Were those animals transgenic farm animals?	
• Were those animals cloned farm animals?	
• Were those animals non-human primates?	
RESEARCH INVOLVING DEVELOPING COUNTRIES	
• Did the project involve the use of local resources (genetic, animal, plant etc)?	
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?	
DUAL USE	
• Research having direct military use	0 Yes 0 No
• Research having the potential for terrorist abuse	

C Workforce Statistics		
3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).		
Type of Position	**Number of Women**	**Number of Men**
Scientific Coordinator	1	1
Work package leaders	6	5
Experienced researchers (i.e. PhD holders)	1	1
PhD Students	1	1
Other	~50	~50
4. How many additional researchers (in companies and universities) were recruited specifically for this project?		1
Of which, indicate the number of men:		

D Gender Aspects

5. Did you carry out specific Gender Equality Actions under the project? ○ Yes ○ No

6. Which of the following actions did you carry out and how effective were they?

	Not at all effective				Very effective
☑ Design and implement an equal opportunity policy	○	○	○	○	●
☑ Set targets to achieve a gender balance in the workforce	○	○	○	●	○
☐ Organise conferences and workshops on gender	○	○	○	○	○
☑ Actions to improve work-life balance	○	○	●	○	○

○ Other:

7. Was there a gender dimension associated with the research content – i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?

○ Yes- please specify

● No

E Synergies with Science Education

8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?

● Yes- please specify: Project as study object

○ No

9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?

● Yes- please specify: Videos

○ No

F Interdisciplinarity

10. Which disciplines (see list below) are involved in your project?

● Main discipline[21]: Energy planning and engineering: 2.1, 2.2

● Associated discipline[21]: 1.1, 1.2, 1.3, 1.4, 5.1, 5.2, 5.3

○ Associated discipline[21]:

G Engaging with Civil society and policy makers

11a Did your project engage with societal actors beyond the research community? *(if 'No', go to Question 14)* ● Yes ○ No

11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?

○ No

○ Yes- in determining what research should be performed

● Yes - in implementing the research

● Yes, in communicating /disseminating / using the results of the project

[21] Insert number from list below (Frascati Manual).

11c In doing so, did your project involve actors whose role is mainly to organise the dialogue with citizens and organised civil society (e.g. professional mediator; communication company, science museums)? ● Yes ○ No

12. Did you engage with government / public bodies or policy makers (including international organisations)

○ No

● Yes- in framing the research agenda

● Yes - in implementing the research agenda

● Yes, in communicating /disseminating / using the results of the project

13a Will the project generate outputs (expertise or scientific advice) which could be used by policy makers?

○ Yes – as a **primary** objective (please indicate areas below- multiple answers possible)

● Yes – as a **secondary** objective (please indicate areas below - multiple answer possible)

○ No

13b If Yes, in which fields?

Agriculture		Energy	X	Human rights	
Audiovisual and Media		Enlargement		Information Society	
Budget	X	Enterprise	X	Institutional affairs	
Competition		Environment	X	Internal Market	
Consumers		External Relations		Justice, freedom and security	
Culture		External Trade		Public Health	(X)
Customs		Fisheries and Maritime Affairs		Regional Policy	X
Development Economic and Monetary Affairs		Food Safety		Research and Innovation	X
Education, Training, Youth		Foreign and Security Policy		Space	
Employment and Social Affairs		Fraud		Taxation	
		Humanitarian aid		Transport	X

13c If Yes, at which level? ● Local / regional levels ● National level ● European level ○ International level	
H Use and dissemination	
14. How many Articles were published/accepted for publication in peer-reviewed journals?	14
To how many of these is open access[22] provided?	all
How many of these are published in open access journals?	all
How many of these are published in open repositories?	all
To how many of these is open access not provided?	none
Please check all applicable reasons for not providing open access:	
❑ publisher's licensing agreement would not permit publishing in a repository ❑ no suitable repository available ❑ no suitable open access journal available ❑ no funds available to publish in an open access journal ❑ lack of time and resources ❑ lack of information on open access ❑ other[23]:	N/A

15. How many new patent applications ('priority filings') have been made? *("Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant).*		N/A (Rockwool)
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	0
	Registered design	0
	Other	N/A
17. How many spin-off companies were created / are planned as a direct result of the project?		N/A
Indicate the approximate number of additional jobs in these companies:		N/A

18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project:

☒ Increase in employment, or	☒ In small & medium-sized enterprises
☒ Safeguard employment, or	☒ In large companies
❑ Decrease in employment,	❑ None of the above / not relevant to the project
❑ Difficult to estimate / not possible to quantify	

19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (*FTE = one person working fulltime for a year*) jobs:	*Indicate figure:*
Difficult to estimate / not possible to quantify	☒

I Media and Communication to the general public

20. As part of the project, were any of the beneficiaries professionals in communication or media relations?

● Yes ○ No

21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public?

○ Yes ● No

22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?

☒ Press Release	☒ Coverage in specialist press
☒ Media briefing	☒ Coverage in general (non-specialist) press
☒ TV coverage / report	☒ Coverage in national press
☒ Radio coverage / report	☒ Coverage in international press
☒ Brochures /posters / flyers	☒ Website for the general public / internet
☒ DVD /Film /Multimedia	☒ Event targeting general public (festival, conference, exhibition, science café)

23 In which languages are the information products for the general public produced?

☒ Language of the coordinator	☒ English
☒ Other language(s)	

FIELDS OF SCIENCE AND TECHNOLOGY

1. NATURAL SCIENCES
1.1 Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]
1.2 Physical sciences (astronomy and space sciences, physics and other allied subjects)
1.3 Chemical sciences (chemistry, other allied subjects)
1.4 Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences)
1.5 Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences)

2 ENGINEERING AND TECHNOLOGY
2.1 Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects)

2.2 Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]
2.3. Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialised subdivisions; forest products; applied sciences such as geodesy, industrial chemistry, etc.; the science and technology of food production; specialised technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other applied subjects)

3. MEDICAL SCIENCES
3.1 Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology and immunohaematology, clinical chemistry, clinical microbiology, pathology)
3.2 Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology)
3.3 Health sciences (public health services, social medicine, hygiene, nursing, epidemiology)

4. AGRICULTURAL SCIENCES
4.1 Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects)
4.2 Veterinary medicine

5. SOCIAL SCIENCES
5.1 Psychology
5.2 Economics
5.3 Educational sciences (education and training and other allied subjects)
5.4 Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organisation and methods, miscellaneous social sciences and interdisciplinary , methodological and historical S1T activities relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].

6. HUMANITIES
6.1 History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics, palaeography, genealogy, etc.)
6.2 Languages and literature (ancient and modern)
6.3 Other humanities [philosophy (including the history of science and technology) arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other S1T activities relating to the subjects in this group]

8.4 Monitoring factsheets – DK

8.5 Monitoring factsheets – BE