

Roll-out of 50/50 initiative to unlock energy saving in schools and other public buildings
(EURONET 50/50 MAX)

Intelligent Energy Europe (IEE) IEE/12/989/SI2.644764

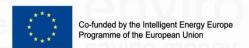
Deliverable D4.3

Technical report on the strategic

roll-out

[April 2016]









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1. Introduction

This report deals with the implementation of the strategic roll-out of the 50/50 concept. The aim of this WP was to promote a strategic roll-out of the 50/50 concept by local, regional and national authorities and its integration into relevant strategies or plans, like local or regional climate or sustainable energy strategies or plans, educational plans at all governance levels, national energy efficiency action plans or other relevant national strategies.

16 partners from 13 different countries implemented the project, but one partner (ALESA) left the project.



1.1. Objectives of the strategic rollout

The target of the strategic roll out of 50/50 was to influence at least:

- 100 local strategies
- 16 educational strategies
- 16 regional plans
- 13 national relevant action plans

to integrate 50/50.

Furthermore, each partner had to find and engage an institutional project observer from its own country or from another EU country, not participating in the project. These institutional project observers are organizations that facilitate spreading the 50/50 concept in their countries and throughout Europe.

For the strategic roll-out beyond partner countries, the partners had to promote 50/50 at EU events, hold two dissemination events of the 50/50 initiative and integrated 50/50 in the CoM. For strategic promotion through other networks or initiatives at EU level partners had to establish links with networks or initiatives around Europe that deal also with energy efficiency and/or with environmental education. Every partner established at least two of these contacts and set up ways of cooperation with them, transferring knowledge and information or making common actions. They encouraged them to disseminate and implement 50/50 in public buildings.

Partners kept all these stakeholders updated about the project development and the implementation of 50/50 in their countries in the national language. CAA created a database with all contacts at European level and informed about the project activities or 50/50 implementation at least two times a year with the newsletter of the project.





1.2. Achieved results of the project

	TARGET	Total reached
"Strategic roll-out of 50/50 concept" – indicators:		
Local Strategies to adopt 50/50 concept	100	155
School Strategies to adopt 50/50 concept	16	26
Regional Plans to adopt 50/50 concept	16	10
National Relevant Action Plans to adopt 50/50 concept	13	8
Contact local/regional/national authorities	320	408
Observers of the project permanently informed on progress	16	29
Cooperation with EU-level initiatives or networks	16	41

Table 1: Targets and achieved results in total

The pie chart shows the kind of organizations, which institutional project observer of EURONET 50/50 MAX. Most of the 29 observer were governmental institutions (14), followed organizations by dealing with educational matters (4).

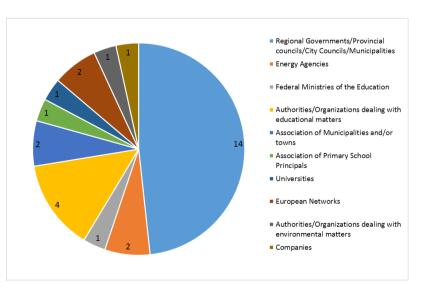


Figure 1: Kind of project observers of EURONET 50/50 MAX

	DIBA	PNEC	UVA	CRETE	UFU	KSSENA	KREA	ZAGREB	RMS	TOP_ENVI	AFE	CAA	DIHU	CEA	EAV
Strategic roll-out of 50/50 concept - indicators															
Local Strategies	84	33	2		4	7		1	2		1	4	12	5	
School Strategies	2		1			1	9	7			2		3		1
Regional plans	1				2		1	1				4	1		
National Action Plans					1*		3	1					2	1	
Contact to local, regional, and national authorities	69	78	6		9	11	26	20	8	5	2	150	11	8	5
Observers of the project	9	2	1		1	1	1	1	1	2	2	1	3	3	1
Cooperation with EU-level initiatives or networks	9	2			7	3	1	5	5			2	3	2	1

Table 2: Achieved results of the partners

^{*} In three consecutive years

1.3. Difficulties and problems

Strategic roll-out of 50/50 has proven to be difficult to conducts, due to several reasons. Depending on the specific situations in the different countries, these problems occurred on local, regional and/or national level. For some partners (NGOs, universities etc.) it was more difficult to reach the targets, because they had no direct channels and methods to influence strategies. The roll-out therefore was easier for the public authority partners in the consortium (e.g. DIBA, ZAGREB, DIHU).

Local level:

Most of the local strategies that included 50/50 are **SEAPs** of signatories of the Covenant of Mayors. Countries with many signatories, like Spain or Poland, had fewer problems to find strategies at this level. Countries with only a few signatories, like for example Austria or Lithuania, had more problems to find local strategies to adopt the concept. Another problem is that many of the SEAPs are already submitted and cannot be influenced any more.

The project has shown success in schools and resulted in significant savings. Other cities and schools that have not been included directly in the project have shown interest in the methodology. In some countries, therefore it was easier to encourage municipalities to implement a **50/50-project** than to find strategies on local level. In some cases, where the projects are currently being processed, it is difficult to get a proof.

Regional level:

One of the main problems to find regional strategies was the simple fact that the majority of these strategies have already been finalized. In some countries, like Cyprus, there are no regional strategies.

National level:

The main problem at this level was that the majority of national strategies where 50/50 could be integrated have already been finalized. The only chance to integrate 50/50 in some of these concepts will be during the next revision.

Another problem that occurred was the fact that many strategies on regional, national and local level already have included measures that partly enter the 50/50 methodology, but do not explicitly state 50/50. However, the measures therein do refer to the goals and aims of EURONET 50/50 MAX.





2. Implementation in the countries

2.1. Barcelona Provincial Council (DIBA)

DIBA has focused their activity to spread the 50/50 concept mostly at local level (to be included in the local strategies) and also at European level. In this sense, we have created a database with more than 42 contacts from other European projects and we have spread the 50/50 concept among the Covenant of Mayors initiative and among the Climate Alliance network.

We also have an important group of observers that has worked together to apply 50/50 beyond the limits of DIBA competences.

Institutional Observer of the project

1. Diputación Floral de Bizkaia. (Bizkaia Provincial Council):

Level: regional

Type of organization: Regional Government

Description:

The Regional Government is the executive body that, within its area of competence, assumes the government and administration of Bizkaia. The historical figure of the Deputy General heads the Regional Government. The latter is elected by the Provincial Parliament of Bizkaia. The Deputy General elects, in turn, the Regional Deputies, who head the various departments that make up the Regional Government. Currently, this is formed by the following Regional Departments: Agriculture, Culture, Economic Promotion, Environment, General Deputy, Presidency, Public Works and Transport, Social action, Treasury and Finance.

Value for the project:

The Bizkaia Provincial Council recently has approved the Bizkaia's sustainable energy strategy (EESB) and it has recognized the schools as one of the facilities that are strategic to change the energy culture. They also have translated the epack into bask language.

2. Consell Comarcal del Gironès: (Girones County Council)



Level: regional

Type of organization: Second level Local Government

Description:

The main mission of Girones County Council is to ensure the provision of services to municipalities that for its features cannot have them by themselves and safeguard the interests of the region and their municipalities. They can also coordinate and organize municipal services including new ones that are not covered by local governments

Value for the project:

They started working with 4 schools to save energy in 2012. They achieved a total savings of 34,131 tonnes of greenhouse gases emissions and 15.217€ with the implementation of good practices in the energy management of these schools. Currently they are applying the 50/50 methodology in 8 schools.





3. Diputació de Girona: (Girona Provincial Council)

Level: regional

Type of organization: Second level Local Government



Description:

Girona Provincial Council is a public institution that provides direct services to citizens and provides technical, financial and technological support to councils of 221 municipalities in the province of Girona, in Catalonia. It coordinates some municipal services and organizes supramunicipal services. Its headquartered are in the city of Gerona.

Value for the project:

They are very interested to get knowledge about successful methodologies to save energy in the schools. Nowadays they are applying the 50/50 in 10 schools.

4. CILMA (Local council for environmental initiatives in Girona)

Level: regional

Type of organization: Second level Local Government



Description:

CILMA is a public network of municipalities in Girona province that work together to improve the environmental activities and polities at local level. Its headquartered is in the city of Gerona.

Value for the project:

They have worked jointly with Diputación of Girona in developing an exhibition to help the municipalities to spread 50/50 concept in the framework of the European Energy Week.



AGÈNCIA DE

5. Node Garraf

Level: regional

Type of organization: Second level Local Government

Description:

Node Garraf is a public consortium formed by public authorities and social partners of the Garraf Region, Barcelona, Catalonia. Its mission is to impulse local strategies to improve the economics in the territory and engage the local companies and activities which provides employment and richness in the development of the region of Garraf.

Value for the project:

They have helped us to apply the 50/50 concept in the schools and facilities of their region.





6. Consell Comarcal d'Osona (Osona City Council)

Consell Comarcal do d'Osona

Level: local

Type of organization: Local Government

Description:

The Osona City Council is a local government directed to provide services to municipalities of the region of Osona, to assist them, advise them and give them tools to facilitate their everyday life and the provision of services that they have to provide to the citizenship. The County Council focuses its action to attend the necessities of the small municipalities, because they have less technical and human resources to develop their skills.

Value for the project:

The Osona city Council, thorough the Local Energy Agency of Osona (ALEO in its Catalan acronym), has a mandate to cut energy costs and CO_2 emissions through energy efficiency measures and the development of renewable energy sources. Desendolla't is its project to save energy in the schools and has achieved 10% savings in consumption electrical and 30% in thermal consumption. They have used the 50/50 concept in their schools.

7. Diputació de Lleida (Lleida Provincial Council)

Level: regional Diputació de Lleida

Type of organization: Second level Local Government

Description:

Lleida Provincial Council is a second level local administration and has the mission to give resources and technical support to the municipalities of the region of Lleida (Catalonia). Its Government action focuses on developing policies to promote the development of the whole territory, with special attention to services and actions that strengthen the community.

8.- GRAM

gram

Level: regional **Type of organization**: Private

Description:

Gram is an organization that develops its activity in the field of the climate change, environmental education and also local policies.

Value for the project:

They have impulse the 50/50 concept in Mallorca; especially they have applied 50/50 in the municipality of Algaida.





9.- **SERN**

Level: International

Type of organization: A bilateral network of Italian and Swedish public

authorities.



Description:

SERN is a bilateral network of municipalities from Italy and Sweden established in 2005. It is the main network in Europe fostering relations in a multilevel perspective between Northern and Southern Europe. SERN is open to civil society and to the private actors, one of its objective is to foster active participation of citizens in the process of European integration.

The secretariat of SERN supports the members in the development of projects along 6 driving themes, which constitute the framework of reference for the members; one of them is environment and environmental policies in general.

Value for the project:

They started to apply 50/50 concept in January of 2015. At the moment, they have 18 schools from 12 municipalities who are applying the 50/50 methodology (10 in Italy and 8 in Sweden). 50-50.sern.eu

Strategic roll-out at local level

DIBA as a second level local public authority works very closely to the municipalities of the Barcelona province. DIBA has focused in promote the 50/50 as a key action that will help to local government in theirs SEAPS. Because, the 50/50 Project is a great opportunity for municipalities that have signed up to the Covenant of Mayors to contribute towards climate protection targets and reducing CO2 emissions. It is advantageous to include a 50/50 project in your municipality's Sustainable Energy Action Plan (or any other strategy for promoting energy savings) since not only does it directly reduce energy consumption and CO₂ emissions in the public buildings involved, but it also significantly helps to change behaviour among users of public buildings and their families. And simply involving the general public and local stakeholders can help us to achieve the ambitious target we set when signing the Covenant of Mayors.

As a Covenant Coordinators, we help the city councils to write theirs SEAPs, so for us, it has been easy to included 50/50 there.

Strategy	Author	Short description	Publication / Link
84 SEAPs	84 Local authorities	50/50 is included as an action of the	http://www.covenanto
	from the province	SEAP to save energy	fmayors.eu/about/sign
	of Barcelona		atories en.html

In the annex, you can find the list of 82 municipalities, and also the cover of the SEAP and the copy of the 50/50 action.





School Strategies

Here we consider both:

- Schools that have included the 50/50 in their pedagogical plan
- Agreements with educational public administration.

In this sense, DIBA has:

- The School Pérez Sala from Vilassar de Mar has included the 50/50 as a Key action in its Green School Action Plan 2013-2016. http://blocs.xtec.cat/blocverd/
- In 2014 and 2015, we made an agreement with the Educational Department of Catalan Government to organize a 15 hours training on 50/50 for school's teachers of Maresme Region and also Baix Llobregat region. In December 2014 and other in 2015. Teachers have to do a practical activity to describe how they are going to plan the actions to save energy in their schools during the next 2 school years. At the end teachers receive an official diploma issued by the Educational Department of the Catalan Government.

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
			We attached the
school teachers	Department - Catalan	school teachers	information in the
	Government		annex.

Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
Sostenible Energy Plan for Bizkaia	de Bizcaia	administration is also an observer and they have included the 50/50	

Strategic roll-out at national level

Unfortunately, we did not success in including the 50/50 in strategy at national level. We tried to do that in three strategies:

- Energy saving and efficiency action plan 2011-2020. If there is an actualization, it could be interesting to try to introduce 50/50 concept for get energy savings at local and regional level, through improving energy efficiency in public buildings.
 But, these three last years there wasn't any actualization of it.
- We also send information to the Catalan government to included 50/50 in the Plan de l'energia i canvi climàtic de Catalunya 2012-2020 was approved on October 2012. But these three last year's wasn't any actualization, and also we thought that it should be interesting to include the 50/50 in the Climate change law that the Catalan government wanted to approved (but nowadays is still under preparation).





Cooperation with EU-level initiatives or networks

We develop a database with more than 50 contacts at European level, see annex with a table summarizing them, and also get in touch with the following networks and European initiatives:

Network,	Description of the cooperation	Publication / Link
initiative		
ZEMedS's project	http://www.zemeds.eu/) is a 3-year project co-funded by the European Commission within the Intelligent Energy Europe Programme (IEE) that promotes the renovation of schools in a Mediterranean climate to be nearly Zero-Energy Buildings (nZEB). We have helped them to improve their Toolkit. We also have shared	see slide 59, 147 and 149 in: http://www.zemed s.eu/school- toolkits where Euronet 50/50 max project appear
SERPENTE	SERPENTE is an interreg project. Its overall objective is to improve energy efficiency in different typologies of publicly owned or managed buildings through improved public policies. We were partners of Serpente project and made two presentations about the Euronet 50/50 max project in the meetings we did. Thanks of that the city council of Bourdeus and the region of Upper Silencia have applyed 50/50 in some of their schools. The Euronet 50/50 max was also choosen as a good practise of the project.	http://www.serpen te- project.eu/about.h tml
Bordeaux city council	approved in the city council plenary session. Implementation of 50/50 in primary school PAUL BERT	Attached you can find the declaration of Bordeaux city council to implement 50/50 in the school.
COOP- ENERGY	Is a three-year European funded project (co-funded through the Intelligent Energy Europe Programme) aiming to help regional (county) and local public authorities develop joint action plans by using Multi-Level Governance agreements. We had a videoconference with other European projects on 18/02/2015 to share different ways to disseminate our project as a good practise to be included in the SEAPs. We also have contributing to their "Local Energy Leadership Cross-promotion Strategy"	http://www.coope nergy.eu/
Energy for Mayors	The project contributed to the successful implementation of the Covenant of Mayors and reaching EU climate & energy goals. We were partners of Energy for Mayor project and we made a presentation about the Euronet 50/50 max project in the meeting we did. And also, the Euronet 50/50 max was chosen as a good practise to be included in the SEAPs.	http://www.energy formayors.eu/en/
Community Power	CO-POWER project aims: speed up the development of renewable energy projects by creating a favourable legislative environment, build a broad, public coalition across Europe supportive of community renewable projects and Inform and educate policymakers, empowering them to put forward	http://www.comm unitypower.eu/en





	enabling legislative frameworks. We were invited to explain our experience in energy efficiency in the workshop (05/02/2015): "Empowering local authorities and their communities to guide local sustainable energy roll-out in Spain (http://www.iclei-europe.org/events/?cmd=view&uid=f21dc5b5). We talked about 50/50 as a good practise.	
Foster In	FOSTEr in MED intends to fully exploit the potential of solar technologies	www.fosterinmed.
Med	through the transfer of technical knowhow to actors of the sector (SMEs, engineers, students), the identification of best practices in the	<u>eu</u>
	policy and regulatory fields and the implementation of five pilot projects	
	aiming to equip public buildings with innovative solar photovoltaic	
	plants. 08/05/2015 we presented the Euronet 50/50 max project in the	
	Barcelona Solar Forum organized in the framework of the Foster In Med project.	
EcoSchools		http://www.oco
ECOSCIIOOIS	An international programme of the Foundation for Environmental Education (FEE), Eco-Schools aims to empower students to be the	http://www.eco- schools.org/
	change our sustainable world needs by engaging them in fun, action-	<u> </u>
	orientated learning. We got in contact with them for spreading 50/50	
	through the schools included in Eco-Schools international programme. A	
	specific document was developed showing the points of contact	
	between 50/50 and Eco-Schools methodologies. These documents were spread among European and other Eco-Schools by the coordinators of	
	this programme.	
Eurocites	EUROCITIES was founded in 1986 by the mayors of six large cities:	http://wsdomino.e
	Barcelona, Birmingham, Frankfurt, Lyon, Milan and Rotterdam. Today,	urocities.eu/euroci
	we bring together the local governments of over 130 of Europe's largest	
	cities and 40 partner cities that between them govern 130 million	RONET-50-50-
	citizens across 35 countries. Through six thematic forums, a wide range of working groups, projects, activities and events, we offer members a	MAX-project-first- results-are-out-
	platform for sharing knowledge and exchanging ideas. They published	WSPO-9VRCBM
	information of the project as a good practise in its webpage.	TO STREET

Contact to local, regional, and national authorities

During the Euronet 50/50 max project we've got in contact with the 55 city councils that are applying 50/50 in the Barcelona province and also with many of others local authorities that are interested in the project.

In the case of the 55 city councils, we have encouraged them to extent the 50/50 in other schools and public buildings. In the case of Sant Cugat del Vallès, Mollet, Vacarisses, Martorelles, and others they did.

We highlight the following contacts:

- Almeria Province and Malaga Province and Tarragona Province and the city of Tarragona: both were interested in promote the 50/50 as second level public authorities.
- Other city councils of the Barcelona province interested in apply 50/50: L'Hospitalet de Llobregat, Santa Perpetua de la Mogoda, Ripollet del Vallès, and so on.
- Colectivo Heliante: that helped the city council of Tudela (Navarra) to implement 50/50 in one school.
- Miguel Morcillo Covenant of Mayors Office.





- Alicia Torrego Fundación CONAMA (they organize the most important meeting in Spain about environment and local governments). We have participated there explaining the project, three times.
- In addition, the 50/50 methodology has been included in a manifesto created by the Renewable Energy Foundation and the Platform for the New Energy Model in Spain. (https://municipiossostenibles.wordpress.com/manifiesto/)
- Jessica Tantalean Noriega, from MOBILIS (an organization in Peru <u>www.mobilis.pe</u>) that asked us how to apply 50/50 there.
- Mª Cruz Ferreira from ALEM (Local Energy Agency of Murcia)
- Bilbao city council they would start with 50/50 next course 2016-2017. They came to Barcelona to learn a little about that. They met with us and they visited two schools that are already implementing 50/50.

In total, more than 69 contacts done mostly with public authorities at local level.

Other

We also presented, as a coordinator of the Euronet 50/50 max project, our candidature to some awards, but were not lucky in any proposal:

- Eneragen 2016. http://www.eneragen.org/ (the Spanish energy agencies association).
- Roger Leron award, edition 2015. http://www.fedarene.org/uncategorized/roger-leron-7368
- In addition, a proposal to organize a round table about 50/50 during the open days in 2014.

2.2. <u>Association of Municipalities Polish Network "Energy-Cities" (PNEC)</u>

Throughout whole project, implementation PNEC was very actively involved in the strategic roll-out of the 50/50 concept at all levels (local, regional, national and European). Since our natural partner are local authorities, here we were the most successful. As a result of our action, <u>33 Polish municipalities</u> included 50/50 concept in their local strategies (mostly *Sustainable Energy Action Plans* and *Low-Emission Development Plans*). Moreover, <u>16 municipalities</u> from 4 different voivodships, that were not initially part of the project, signed official declarations that they will implement the 50/50 methodology in <u>102 schools</u> in total. PNEC already supported them in starting the action by helping in the initial steps (development of the agreement), assisting in the purchase of the measuring devices and organising whole-day trainings for schools.

PNEC was also active on the European level. We promoted the 50/50 concept during different international events, as well as using our <u>EU contact database</u> (266 addresses that were used *inter alia* to disseminate the EURONET 50/50 MAX newsletter). Moreover, we established cooperation with two EU-level initiatives (SAVE AT WORK project and RENERGY project), as well as with the CoMO office. We already had one CoMO webinar on 50/50 addressed to Polish municipalities (14.03.2016) and we scheduled another one that will be held in English and will be addressed to the European community (10.05.2016).





Institutional observers of the project

PNEC engaged two institutional project observers:

1. Union of the Municipalities of the Wisłoka River Basin

Level: regional level **Kind of organization**: NGO



Description:

The Union of the Municipalities of the Wisłoka River Basin (UMWRB) is a non-governmental organisation gathering and representing 22 municipalities located in the basin of the Wisłoka River. Its mission is to protect national environment of the region and help to ensure its sustainable development. To achieve this, the Union is implementing many projects in the area of water protection and wastewater management, waste management, development of tourism and environmental education.

Value for the project:

- dissemination of the 50/50 concept among the municipalities from the region;
- helping PNEC in encouraging municipalities from the region to include the 50/50 concept in their local strategies (9 municipalities did it - Brzostek, Dębica, Jasło, Kołaczyce, Krempna, Pilzno, Sękowa, Skołyszyn, Żyraków)

2. Municipality of Gdynia

Level: local level

Kind of organization: local authority



Description:

Gdynia is Polish municipality located in the Northern part of Poland, at the Baltic. It counts approx. 250.000 inhabitants and is engaged in many environmental projects, including the ones related to sustainable transport and environmental education. It is also one the most active Polish CoM signatories, who joined the initiative in 2011 and submitted its SEAP.

Value for the project:

- dissemination of the 50/50 concept among the municipalities from the Northern part of Poland
- implementation of the 50/50 concept in 7 schools following the results of the EURONET 50/50 MAX project





Strategic roll-out at local level

A. 50/50 concept in local strategies

All strategies are available upon request - either from the municipality or from PNEC, who gathered them.

No	Strategy		Short description	Page
1	Low-Emission Development Plan for the Municipality of Nowy Targ	Nowy Targ	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	49
2	Sustainable Energy Action Plan for the Municipality of Besko for 2014-2020	Besko	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	70
3	Sustainable Energy Action Plan for the Municipality of Sztum until 2020	Sztum	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	58
4	Sustainable Energy Action Plan for the Municipality of Grybów for 2015-2020	Grybów	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	62,63
5	Low-Emission Development Plan for the Municipality of Olsztyn	Olsztyn	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	165- 168, 180
6	Revised Low-Emission Development Plan for the Municipality of Skawina for 2015-2020	Skawina	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	77
7	Low-Emission Development Plan for the Municipality of Krzywda for 2015-2020	Krzywda	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	133
8	Low-Emission Development Plan for the Municipality of Borek Wielkopolski for 2015- 2020		The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	140
9	Low-Emission Development Plan for the Municipality of Wohyń for 2015-2020	Wohyń	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	175, 176
10	Low-Emission Development Plan for the Municipality of Jelenia Góra	Miasto Jelenia Góra	The document sets municipality's long-term vision in terms of sustainable energy development and air	183, 197





			All LAM buildings - 36 LL	
			quality improvement, as well as defines actions that will help to achieve this vision.	
11	Low-Emission Development Plan for the Municipality of Łomża	Łomża	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	121, 132
12	Action Plan "Clean Energy for Dobczyce"	Dobczyce	The document sets municipality's long-term vision in terms of sustainable energy development, as well as defines actions that will help to achieve this vision.	35
13	Low-Emission Development Plan for the Municipality of Józefów	Józefów	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	78
14	Low-Emission Development Plan for the Municipality of Grabowo for 2015-2020	Grabowo	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	112
15	Low-Emission Development Plan for the Municipality of Czemierniki for 2016-2020	Czemierniki	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	167, 168
16	Low-Emission Development Plan for the Municipality of Dorohusk for 2015-2020 (with the long-term vision until 2030)	Dorohusk	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	59
17	Low-Emission Development Plan for the Municipality of Raciechowice until 2020	Raciechowice	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	35
18	Local implementation plan for the municipality of Dąbrowa Górnicza for 2014- 2020	Dąbrowa Górnicza	The plan supports implementation of actions in the area of environmental protection and sustainable city management defined for the years 2014-2020	34
19	Low-Emission Development Plan for the Municipality of Rossosz for 2015-2020 (with the long-term vision until 2030)	Rossosz	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	177, 178
20	Low-Emission Development Plan for the Municipality of Bielsko-Biała and Sustainable Energy Action Plan of the Municipality of Bielsko-Biała	Bielsko-Biała	Both documents set municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as define actions that will help to achieve this vision.	138, 167
21	Low-Emission Development Plan for the Municipality of Kobylnica	Kobylnica	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	69





			ALLER BUILDINGS - SEE	
22	Low-Emission Development Plan for the Municipality of Wola Mysłowska for 2015- 2020 (with the long-term vision until 2030)	Wola Masłowska	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	61
23	Low-Emission Development Plan for the Municipality of Sękowa for 2015-2020	Sękowa	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	87
24	Low-Emission Development Plan for the Municipality of Skołyszyn for 2015-2020	Skołyszyn	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	81,82
25	Low-Emission Development Plan for the Municipality of Pilzno for 2015-2020	Pilzno	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	92
26	Low-Emission Development Plan for the Municipality of Żyraków for 2015-2020	Żyraków	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	88
27	Low-Emission Development Plan for the Municipality of Krempna for 2015-2020	Krempna	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	72
28	Low-Emission Development Plan for the Municipality of Kołaczyce for 2015-2020	Kołaczyce	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	83
29	Low-Emission Development Plan for the Municipality of Dębwiec for 2015-2020	Dębowiec	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	89
30	Low-Emission Development Plan for the Municipality of Jasło for 2015-2020	Miasto Jasło	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	105
31	Low-Emission Development Plan for the Municipality of Brzostek for 2015-2020	Brzostek	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	81
32	Sustainable Energy Action Plan (SEAP) for Śrem	Śrem	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	
33	Low-emission Economy Programme for the municipality of Cieszyn	Cieszyn	The document sets municipality's long-term vision in terms of sustainable energy development and air quality improvement, as well as defines actions that will help to achieve this vision.	





B. Municipalities, who signed official declaration that they will implement the 50/50 concept in selected schools (not part of the original project)

As a result of PNEC's actions, <u>16 municipalities</u> from 4 different voivodships, that were not initially part of the project, signed official declarations that they will implement the 50/50 methodology in <u>102 schools</u> in total. PNEC already supported them in starting the action by helping in the initial steps (development of the agreement), assisting in the purchase of the measuring devices and organising whole-day trainings for schools. Signed declarations are available upon request.

Below is the list of the municipalities involved and the number of schools that each of them decided to engage in the 50/50 project.

Region	Municipality	Number of schools that will implement the 50/50 concept	Comment
	Besko	2	
Podkarpackie	Pilzno	7	
Voivodship	Zarszyn	5	
	Żyraków	5	
Śląskie Voivodship	Bielsko-Biała	32 (31 schools and 1 sports & leisure facility)	Within EURONET 50/50 MAX Bielsko-Biała was implementing the 50/50 concept in one school. Now, it decided to do it in all of them!
	Ornontowice	2	
Małopolskie	Siepraw	2	
Voivodship	Skawina	13	
	Brusy	2	
	Gdynia	7	
	Kobylnica	7	
Pomorskie	Krokowa	3	
voivodship	Słupsk	8	
	Sopot	2	
	Sztum	4	
	Ustka	1	
тс	TAL	102	





Strategic roll-out at regional level

Although PNEC was promoting the 50/50 concept also on the regional level, no relevant strategies were identified where 50/50 concept could be included - either because they were already adopted and under implementation or because they were too general in describing the actions to include such a specific tool (e.g. "environmental education" as one action with a general set of targets).

It is worth mentioning, however, that implementation of the 50/50 concept in additional 16 municipalities (see above) is supported by relevant Voivodship Funds for Environmental Protection and Water Management, who co-financed purchase of measuring devices for additional 102 schools. This proves that the 50/50 concept is in line with their regional environmental protection targets (although is not included in relevant strategies).

Strategic roll-out at national level

Similarly like with the regional level, PNEC undertook actions to promote the 50/50 concept at the national level (e.g. during the event organised by the former Ministry of Economy) but did not succeed to implement it in any national strategies. The reason is that - with Poland being a relatively big country - national legislation process is long-winded, including multiple stakeholders and thus not focusing on such specific tools. Moreover, with the recent political changes, including the changes of competences of different bodies, the process will have to be restarted.

School Strategies

In Poland schools are following official curriculum determined at the national level and don't have internal educational strategies.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
RENERGY project (INTERREG IV C)	 presentation of EURONET 50/50 MAX during RENERGY FINAL CONFERENCE which took place in Brussels (Belgium) on the 15th of October 2014 publication of the description of EURONET 50/50 MAX as one of best practices in the RENERGY Good Practices Database 	www.renergyproject.eu
SAVE AT WORK (HORIZON 2020)	AVE AT WORK • exchange of experience during the EURONET	





Contact to organisations and institutions from EU countries

When disseminating and promoting the project (e.g. by sending out the 50/50 newsletter), PNEC used its "EU contact data base" including addresses of all organisations and institutions from other EU countries that it cooperates with (140 e-mail addresses).

Contact to local, regional, and national authorities

Within whole project duration, PNEC has been in contact with different local, regional and national authorities. Basic contact list includes 78 authorities.

Main problems and difficulties

In general, PNEC is satisfied with the work done within WP4, especially with the number of additional Polish municipalities committed to implement the 50/50 scheme and with the cooperation with CoMO (that will continue beyond the project). The most difficult, however, was to reach the national level. Despite undertaken efforts, it was hard to get the national authorities interested in the 50/50 concept and to encourage them to include it in national-level strategies.





2.3. University of Vaasa (UVA)

Institutional Observer of the project

Name of Organisation: Motiva Ltd Level: National level Kind of organization: Company



Description:

Motiva is an expert company promoting efficient and sustainable use of energy and materials, also main IEE contact in Finland. Its services are utilised by the public administration, businesses, communities, and consumers. Motiva operates as an affiliated Government agency (an in-house unit), and its functions will be developed as such. The company's entire share stock is in Finnish state ownership.

Value for the project:

• We have discussed with Motiva from the beginning of the project (and also they were involved in the original Euronet 50/50 project). We have discussed about how to best implement the project, whom to contact etc. Motiva is based on the capital area of Finland and they helped us to find a correct contact person from the city of Espoo, after which we got Espoo involved in the project. They have also disseminated 50/50, including distributing our brochures and telling about our project in "Educa" fair in January 2016. Educa is the largest and most significant annual educational exposition in Finland with 14 000 visitors.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
Climate programme	Municipality of Espoo	In Espoo, the aim is to continue the well-functioning 50/50 approach as a part of the city's climate work. The municipality is preparing a climate programme where they have included encouraging of schools and kindergartens to save energy by rewarding them with 50 % of the financial saving. There is an objective that certain number of schools and kindergartens annually start energy saving actions based on this operations model.	pdf attached of an email message from
SEAP	Municipality of Vaasa	50/50 project in a hundred of buildings owned by the city in 2016-2020. The users of these buildings are being motivated to save heating energy, electricity and water. Half of the financial saving will be given to the users of the building.	http://mycovenant.eu mayors.eu/seap- monitoring/index.php ?page=iframe_graphs &process=download documents&item_id= 24344&report_id=165 05





School Strategies

Strategy	Author	Short description	Publication / Link
Educational plan		•	http://www.oulunkaari.org/ii/ kokous/20151650-3-2.PDF
		kindergartens and schools will start 50/50 project.	

Contact to local, regional, and national authorities

The municipalities that are involved in 50/50 are Helsinki, Espoo, Ii and Vaasa. In these municipalities, several authorities/offices have been contacted frequently before and during the project. In addition to that, UVA has visited a group of municipalities in the Keski-Uudenmaa area (explained below) and discussed actively with them about the project. In addition, the project observer Motiva is a national authority.

Main problems and difficulties

We have been quite successful with strategies at local level, but not much has happened on the regional, national or international level. Main reason for that is simply the fact that UVA is a university and has no direct channels and methods to influence in strategies. The situation is totally different with e.g. city councils or provincial councils. Another issue is that the workload of 50/50 has been much greater than the budgeted hours and therefore we just have not had a chance to work with this issue too much. However, being one researcher from one university, the possibilities to influence to national strategies are very limited, which was discussed with the coordinator already in the application stage.

Something has happened also on these levels:

- In the region of Keski-Uudenmaa (in the northern side of the capital area of Finland), there are several municipalities that are very interested in the 50/50 scheme and they are planning to start projects in their schools in several municipalities. They invited the representative of UVA to their meeting in September 2015 to introduce 50/50 and educate them about the key issues of the project. The discussion has been continued via email after that.

Some other things that are worth mentioning are:

- All the Finnish municipalities that were involved in Euronet 50/50 MAX, have decided to continue with the project:
 - VAASA is planning to implement 50/50 in most public buildings by 2020 ESPOO is planning to select several new schools every year to implement 50/50 II has already started implementing 50/50 in all their kindergartens and schools HELSINKI has already selected 7 new schools that have started implementing 50/50.
- UVA has applied and received money for a new project to create a web application that will include all the necessary tools for public buildings and municipalities to implement 50/50: including calculation tools for defining the reference values, monitoring energy consumption on monthly basis and calculating the monetary savings; educational materials, step-by-step instructions and printable forms for doing the different steps of the project etc. The web application will also work as a timetable and a diary for the users and the use of it will be interactive. The web application will be ready by the end of 2016.





2.4. Region of Crete (CRETE)

Institutional Observer of the project

1. Four Centres of environmental education of Crete supervised by The *Centre of Environmental Education of Archanes (CEEA)*

Level: Local and Regional

Kind of organization: Educational

Description:

The Centre of Environmental Education of Archanes (CEEA) - http://www.kpearchanon.gr/index.php?lang=en- which was formed in 2002 (Decision 72942/Γ2/11-07-2002 by the Ministry of National Education and Religious Affairs) and has been in operation since December 2003. The staff comprises educators from both the primary and the secondary levels of education. ACTIONS:

- Design and implementation of Environmental Education (EE) projects for pupils/students of primary/secondary education, respectively
- Organization and carrying out of training meetings and seminars targeting educators and other social groups.
- Design and production of educational and training materials.
- Support of EE projects of schools in the region of CEEA
- Formation and coordination of thematic EE networks at a national and international level.
- Promotion of research in the field of Environmental Education.
- To further its aims the CEEA promotes liaison and cooperation with universities, EE officers, other Centres of Environmental Education, local governments, NGOs, local associations and other entities.

Value for the project:

• To sensitize and educate pupils, students, educators and other social groups in environmental matters/concerns of local or global importance, and in respect of that, in energy savings and protection of the environment and climate change.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
		In the municipalities, where schools were engaged for the project's implementation, policy makers of the municipalities were contacted and been informed, as well as two municipalities out of the Crete's territory.	

School Strategies

Strategy	Author	•	Publication / Link
		100 schools have been informed, and 57 of them have developed strategies in terms of the methodology of the project	





Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	•	Publication / Link
		In terms of Crete's Regional Energy Strategy, Euronet 50/50max methodology is adopted as appropriate, but this cannot be confirmed by a specific confirmation official sheet, since Crete's energy planning is in progress.	

Strategic roll-out at national level

Strategy, where 50/50 will be integrated	Short description	Publication / Link
	Relative national authorities have been contacted and been informed.	

Cooperation with EU-level initiatives or networks

Network, initiative	·	Publication / Link
Research	Region of Crete is full member of active European Network having relatives working groups-task forces: European Region Research Innovation Network and Conference of Peripheral Maritime Regions. Through cooperation, the project's methodology has been disseminated as an appropriate strategy to be further implemented.	
Peripheral Maritime Regions	Region of Crete is full member of active European Network having relatives working groups-task forces: European Region Research Innovation Network and Conference of Peripheral Maritime Regions. Through cooperation, the project's methodology has been disseminated as an appropriate strategy to be further implemented.	

Contact to local, regional, and national authorities

For all disseminated events, local, regional and national authorities have been contacted and further informed.





2.5. Independent Institute for Environmental Issues (UFU)

Unabhängiges Institut für Umweltfragen UfU e.V. (Independent Institute for Environmental Issues) NGO and applied-scientific institute that has been doing 50/50 and other energy saving/climate Protection projects at school as well as developing teaching and project material in these fields for 25 years. We have a network of personalised contacts in about 450 schools in Berlin and Brandenburg and a newsletter in educational issues.

Institutional Observer of the project

Name: Federal Association School Energy Education (Bundesverband Schule Energie

Bildung)

Level: national

Kind of organization: Organization dealing with educational matters



Description:

Federation of German Non-Profit-Organizations and public authorities who support schools in saving energy and climate protection projects. Members:

- Bremer Energie Konsens GmbH
- co2-online
- Die Multivision
- <u>3/4 Plus Bremen</u> und <u>Bremerhaven</u>
- <u>e.u.[z.] Energie- und Umweltzentrum</u> <u>am Deister e.V., Springe</u>
- <u>fifty/fifty</u> Hamburg
- <u>e&u energiebüro</u>, Bielefeld Umweltbüro Nord, Stralsund

- <u>ifeu Institut</u>, Heidelberg
- jugend.werkstatt, Felsberg
- Stadt Hannover
- <u>Umweltlernen</u> in Frankfurt am Main
- <u>Umweltzentrum</u> Hollen
- Werk-statt-Schule, Hannover
- Ziel 21, Fürstenfeldbruck

Value for the project:

• Network of disseminators for energy saving projects at schools

Strategic roll-out at local level

I mention only those municipalities we are cooperating with regarding energy saving at schools.

Strategy	Author	Short description	Publication / Link
"Einführung von Energiespar- modellen in der Region Beeskow"	Beeskow	Energy saving project at schools and kindergardens at Beeskow	https://www.beeskow.de/seite/96863/fifty -ftfty-projekt.html
		Save Energy	http://www.hannover.de/Media/01-DATA-Neu/Downloads/Landeshauptstadt-Hannover/Verwaltung/FB-Geb%C3%A4udemanagement/Hannovers-Schulen-sparen-Energie





Chem	nitz Climate Protection	http://www.chemnitz.de/chemnitz/de/die-
	Programme including	<u>stadt-</u>
	energy saving at schools	chemnitz/umwelt/klimaschutz/klimaschutz
		programm/index.html
Markr	an- Climate Protection	http://www.markranstaedt.de/markransta
städt	Programme including	edt/content/30/20100723083430.asp
	energy saving and energy	
	education at schools and	
	public buildings	

School Strategies

Our Institute is running fifty/fifty energy saving at about 100 schools and kindergartens mainly in the northeast of Germany annually. These schools are usually interested energy saving in their buildings, some have to be convinced before. However, we usually concentrate on the practical example and activity as motivation for the school.

The school projects are usually launched by the local authorities that are responsible for the school building.

Schools often give themselves programs and/or profiles such as sports, creativity, science or ecology, usually they don't contain specific projects.

Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
Integrated climate protection concept	Teltow-Fläming	Integrated climate protection concept including energy saving at schools	http://www.teltow- flaeming.de/de/landk reis/umwelt/klimasch utz.php
Integrated Climate protection concept	Havelland	Integrated Climate protection concept including 50/50 at schools	http://www.havellan d.de/Klimaschutzkon zept.2465.0.html

Strategic roll-out at national level

Strategy, where 50/50 will be integrated		Short description	Publication / Link
Municipal	National	Nationwide funding program for introduction /	www.klimaschutz.d
guideline of	Climate	continuation of energy-saving models to educational	e/de/zielgruppen/k
the National	Initiative	institutions.	ommunen/foerderu
Climate		This tender is published annually and has been mentioning	ng/die-
Initiative		50/50 in 2013, 2014, 2015 as eligible for funding.	kommunalrichtlinie





Published annually at the Bundesanzeiger:

2013

https://www.bundesanzeiger.de/ebanzwww/wexsservlet?page.navid=official_starttoofficial_view_p_ublication&session.sessionid=964e90ba8f975356f00ab41e765c4ddb&fts_search_list.selected=231ad_baf185e01f7&&fts_search_list.destHistoryId=21536&fundstelle=BAnz_AT_15.10.2013_B6

2014

https://www.bundesanzeiger.de/ebanzwww/wexsservlet?page.navid=official_starttoofficial_view_p_ublication&session.sessionid=964e90ba8f975356f00ab41e765c4ddb&fts_search_list.selected=d1fbc_c9cd6d7d0a1&&fts_search_list.destHistoryId=54018&fundstelle=BAnz_AT_15.09.2014_B5

2015

https://www.bundesanzeiger.de/ebanzwww/wexsservlet?page.navid=&session.sessionid=a0d6689d f44054f9a43ade7eddebc45e&fts search list.selected=fabb2724d17e3084&&fts search list.destHist oryld=36615&fundstelle=BAnz AT 06.10.2015 B4

Cooperation with EU-level initiatives or networks

We were not active in EU-networks where we could promote 50/50, but we did workshops/training courses on 50/50 energy saving at schools in the Ukraine, Romania and Bulgaria

Network, initiative	Description of the cooperation	Publication / Link
Federal Ministry for the Environment, Berlin Energy Agency and Ministry of Economy Poland	1. Deutsch-polnische Konferenz zu Energiedienstleistungen im Kontext europäischer Klima- und Energiepolitik am 16. Oktober 2013 in Warschau (Polen), presentation of Eurnet 50/50 (MAX)	http://www.econet- poland.pl/veranstaltungen/events -detailseite/events/warszawa-1- deutsch-polnische-konferenz-zu- energiedienstleistungen-im- kontext-europaeischer-klima-und- energiepolitik/?cHash=ba21dfab1 4e29301e3f5507dc5c48904
Behave Energy Conference 2014: Paradigm Shift: From Energy Efficiency to Energy Reduction through Social Change	Speech on Euronet and energy saving at schools	http://www.eceee.org/events/calendar/2014/behave-energy-conference-2014
Conference "Climate Protection by means of energy efficiency"	Organized by UfU supported by the Federal Ministry of the environment, several Euronet Partners took part as well as other German and foreign partners of UfU and participants.	http://www.ufu.de/de/abgeschlossene-projekte-fgksub/europ%C3%A4ische-fachtagung-klimaschutz-durch-energieeffizienz.html





Goethe Institut Kiew	,	http://www.goethe.de/ins/ua/de/ kie/lhr/ped.html
Association "Energy Efficient Cities of Ukraine" (EECU)		http://enefcities.org.ua/diyalnist/ shkola-energi/
Energy saving at Schools in Romania	Adaptation and Translation of 50/50 methodology, training visits and pilot project in Romania	http://www.environ.ro/index.php/ro/?option=com/content&view=article&id=581
"Climate Change Action – from Awareness to Behavior" in Plowdiw/Bulgaria		No weblink, presentation can be provided

Contact to local, regional, and national authorities

We are in close contact and cooperation with numerous local/district authorities, especially: Hannover (City), Havelland (rural district), Teltow-Fläming (rural district), Reinickendorf (district of Berlin), Chemnitz (city), Markranstädt (town), Frankfurt/Oder (Oder) and others. We have looser contacts with other authorities like Lehrte (town) regarding counselling on energy saving at schools.

Main problems and difficulties

General Situation in Germany regarding 50/50 energy saving projects at schools

The 50/50-concept was developed in Hamburg/Germany in the early 1990ies. UfU started to run 50/50 and other energy saving projects at schools since around 1995. Apart from this we developed an extensive network to promote energy saving projects at school, ran annual conferences and educational courses in this field. This network includes the educational service of the Federal Ministry for the Environment, Nature Protection and Nuclear Safety. The National Climate Protection Initiative has a special branch to promote climate protection concepts and projects on the municipal level – the Kommunalrichtlinie. Since 2013 the annual tender mentions 50/50 projects at school as projects that can be supported by grants when they are part the municipal/district climate protection concept.

We are not claiming that this is only or even mainly due to our work, but we definitely contributed to fifty/fifty energy saving projects or similar models became part of this program and energy saving at schools in all parts of Germany.

Municipalities and regions apply to this programme to get funding for energy saving at their schools and then implement such projects with or without help of external educators/specialists. Few regions/cities implement 50/50 energy saving at schools by themselves out of the savings.

Our institute is implementing energy saving projects at about 100 schools and kindergartens annually. In some cases, we were in contact with the municipality/region before energy saving at schools was started there, in some cases we were contacted, when they developed the plan to run such projects.





The National Climate Protection Initiative however does not keep statistics on the number of municipalities or schools that run such concepts/projects.

A brief web research brought a number of municipalities/regions that implement 50/50 energy saving at schools within their climate protection concepts, which were mostly developed using the National Climate Protection Initiative. This research was interesting for us also because quite a number of these regions and town give a link to our (UfU) material for energy saving projects. Here is the list:

https://www.atmosfair.de/umweltbildung/energiesparen_an_schulen

http://li.hamburg.de/fifty-fifty/

http://www.umweltschulen.de/klima/einf_klimadetektive.html

http://www.umweltschulen.de/klimadetektive-mv/ergebnisse.html

http://www.klimabildung-koeln.de/

https://www.klimaschutz-pforzheim.de/tu-was/was-wir-tun/schulen-im-klimaschutz.html

http://typo3cms01.rlp.de/?id=43651 - 50/50 in Rheinland-Pfalz, Projekt "Win-Win"

http://www.klimaschutzmachtsinn.laatzen.de/Material.1606.0.html

http://www.iserlohn.de/iek/initiativelserlohn/Aktuelles/Aktuelles.htm

https://www.landkreis-stade.de/portal/seiten/klimaschutz-901000088-20350.html

http://www.kultusportal-bw.de/,Lde/773989 - Energieeinsparbeteiligungsprojekte an Schulen

http://www.kreis-stormarn.de/aktuelles/pressemeldungen/show_entry.html?id=1387&archive=

http://www.rastatt.de/index.php?id=928

https://www.moers.de/de/aktuelles/klimaschutz-35.000-euro-praemien-fuer-moerser-schulen-und-kitas/

http://www.elmshorn.de/INTERNET/Umwelt-Bau/Klimaschutz/Energiemanagement/Fifty-Fifty-

Projekte/index.php?La=1&NavID=2326.78&object=tx | 2326.2532.1&kat=&kuo=2&sub=0

https://www.juelich.de/aktivfuersklima

http://www.klimaschutzagentur-reutlingen.de/aktuell/newsletter/1-2015/

https://www.lahr.de/startseite/umwelt_verkehr/energie_und_klima/fifty_fifty_projekt.99670.1,489 70,3949,99670.htm

https://www.duesseldorf.de/umweltamt/bildung/projekt 50 50.shtml

http://www.34plus.de/Regionalkonferenz.html - Bremen

http://www.ammerland.de/8440.php

https://www.rathenow.de/Klimaschutz.2987.0.html

http://www.regionale-energieagentur-ulm.de/index.php/projekte/schulen/fifty-fifty

http://www.energieagentur-ravensburg.de/kommunen-vereine/foerderprogramme.html

http://www.zukunftsschule.sh/index.php?id=414&spid=6743 - Land Schleswig-Holstein

http://www.brackenheim.de/index.php?id=742

http://www.baden-badensetztauf37.de/acht-schulen-beteiligen-sich-fifty-fifty-projekt-

vertragsunterzeichnung-der-robert-schuman-schule/

http://www.guatsklima.de/ Krailing

http://www.lehrer.uni-karlsruhe.de/~za184/schule_umwelt.html

http://www.zugspitz-region-gmbh.de/de/aktuell/do/detail/id/23.html

http://www.lra-mue.de/de/pub/energie klimaschutz/energiesparmodell schulen und .cfm

Landkreis Mühldorf am Inn

https://www.dinslaken.de/de/agenda-news/kinder-der-bruchschule-sparten-die-meisten-

energiekosten/

http://www.kreis-warendorf.de/w1/26248.html





2.6. Energy Agency of Savinjska, Šaleška and Koroška Region (KSSENA)

Energy Agency of Savinjska, Šaleška and Koroška Region (KSSENA) was established in 2006 within the framework of Intelligent Energy Europe (IEE) by 4 four founders: Municipality of Velenje (MOV), Municipality of Celje (MOC), Municipality of Slovenj Gradec (MOSG) and Public utilities Company (KPV). KSSENA is an expert organisation specialized in the field of energy, with the emphasis on RES and RUE and project management. KSSENA is accelerating promotion and implementation of energy efficient measures, especially in public sector. With its programme and development, KSSENA is following aims of national and European energy policy in benefit of social, economic and environmental development on local level. Currently KSSENA has a database of approximately 10.000 contacts.

Institutional Observer of the project

Name of Organisation: Association of Municipalities and towns of Slovenia

(SOS – Skupnost občin Slovenije)

Level: national

Kind of organization: Association of Municipalities and towns of Slovenia



Description:

The Association of Municipalities and towns of Slovenia (SOS) is the biggest representative association of municipalities, established in 1992. The Association has 173 member municipalities (from 210 municipalities). Tasks of the Association of Municipalities and Towns of Slovenia are, in particular, implementation and representation of local community's common interests in proportion to coordination with legal and regulation acts, which, with their solutions, affect municipalities' situation. The Association works actively in the EU's COR.

Value for the project:

The Association of Municipalities and towns of Slovenia (SOS) decided to follow project EURONET 50/50 MAX because as the biggest representative association of municipalities they understand the role of every municipality in areas such as energy and environment. Schools, being an important part of every municipality, are a major factor in general energy consumption and CO2 emissions, so it is important for SOS to support projects, that tend to make difference for the better and for the benefit of everyone.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
SEAP		KSSENA prepared SEAP in the framework of CoM and included 50/50 methodology as an example of good practice for energy consumption reduction on a local level.	PDF
SEAP	Municipality of Tolmin	See above	PDF





SEAP	Municipality of Nazarje	See above	PDF
SEAP	Municipality of Žalec	See above	PDF
SEAP	Municipality of Slovenj Gradec	See above	PDF
SEAP	Municipality of Celje	See above	PDF
SEAP	Municipality of Ljubno	See above	PDF

School Strategies

Strategy	Author	Short description	Publication / Link
Annual School	Primary school	Primary School Antona Aškerca	PDF Annual School Action
Action Plan	Antona Aškerca	included Euronet 50/50 MAX in	Plan of Primary School
	Velenje	Annual School Action Plan 2014/2015	Antona Aškerca Velenje

Strategic roll-out at regional level

Trying to influence regional policy proved to be very difficult. Although we disseminated project activities and results regularly on regional level and the interest in general was high, it turns out the biggest issue proved to be step 9 (distributing the money 50/50), because of the complicated system of financing for public buildings in Slovenia. This made influencing regional policies and inclusion of 50/50 methodology in strategies harder.

Strategic roll-out at national level

Trying to influence national policy was even harder. The reason is the same as for regional level. Because of the complicated system of financing for public buildings, execution of distribution of the money savings 50/50 presented the main issue. This made influencing national policies and inclusion of 50/50 methodology in strategies harder.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
Efficiency in municipalities"	· · · · · · · · · · · · · · · · · · ·	PDF Agenda Workshop in Chernivtsi





Mobility week	obility week Euronet 50/50 MAX was presented on Mobility week 2015	
	in three different cities. Euronet 50/50 MAX was	MAX on Mobility
	interconnected in intertwined with other activities.	Week
Annual School	Primary School Antona Aškerca included Euronet 50/50	PDF Annual School
Action Plan of	MAX in Annual School Action Plan 2014/2015, where it was	Action Plan of
Primary school	specified, that the project will be intertwined with Eco	Primary school
Antona Aškerca	School initiative (Eko šola)	Antona Aškerca
Velenje		Velenje

Contact to local, regional, and national authorities

- Municipality of Velenje Alenka Rednjak alenka.rednjak@velenje.si
- Municipality of Celje Barbara Gorski barbara.gorski@celje.si
- Municipality of Nazarje Samo Begič samo.begic@nazarje.si
- 4. Municipality of Slovenj Gradec Tine Harnik tine.harnik@slovenjgradec.si
- Municipality of Ljubno Blaž Presečnik nlaz.presecnik@ljubno.si
- GOLEA Local Energy Agency of Nova Gorica Rajko Leban rajko.leban@golea.si

- LEAD Local Energy Agency of Dolenjska, Posavje and Bela Krajina Janko Uršič Janko.ursic@lea-d.si
- Energap Local Energy Agency of Podravje Vlasta Krmelj vlasta.krmelj@energap.si
- LEAG Local Energy Agency of Gorenjska Anton Pogačnik anton.pogacnik@leag.si
- LEA Pomurje Local Energy Agency of Pomurje Bojan Vogrinčič bojan@lea-pomurje.si
- 11. LEA Spodnje Podravje Local Energy Agency of Podravje Janez Petek janez.petek@lea-ptuj.si

Main problems and difficulties

Main problem in this work package was trying achieve strategic roll-out on regional and national level and include 50/50 concept in regional and national strategies. The biggest concern, as already mentioned before, is the distribution of money savings, which is quite impossible due to financing system for public buildings in Slovenia. This made influencing strategies and policies with 50/50 methodology harder.





2.7. Kaunas Regional Energy Agency (KREA)

KREA Strategic roll-out strategy was mainly focused on national level. Because of Lithuania legal basis, it is difficult to integrate 50/50 methodology in public buildings directly. Therefore, KREA focused its strategy on policy makers like ministries and other.

Institutional Observer of the project

Name of Organisation: Association of Local Authorities in Lithuania ALAL

Level: national

Kind of organization: non-profit, non-Governmental

Description:

ALAL is a non-profit, non-Governmental organization, representing the common interests of its members - local authorities in all national institutions, as well as in international organizations of local authorities

Value for the project:

ALAL is valuable for project because of its wide network of municipalities of Lithuania.

Strategic roll-out at local level

KREA do not has any strategic roll-out at local activities, because the main target of KREA national strategic roll-out strategy was to reach national institutions, not local or regional.

School Strategies

Strategy	Author	Short description	Publication / Link
School strategy	Kaunas technology university lyceum	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy	art gymnasium	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy		Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy	Kaunas Kazio Griniaus progymnasium	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy		Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached





School strategy	Kaunas "Paparcio" primary school	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
Masioto primary		Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy	Kauno "Silo" primary school	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached
School strategy	Kaunas "Suzukio" primary school	Confirmation that school intend to include EURONET 50/50 max project methodology into 2017 year School Strategy.	LOI attached

Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	•	Publication / Link
	Energy Agency	Tartu Regional Energy Agency supports EURONET 50/50 MAX project conception and intend to use project methodology in future activity.	LOI attached

Strategic roll-out at national level

Strategy, where 50/50 will be integrated	Author	•	Publication / Link
Foreseen to integrate	Ministry of Energy	Supports project conception and estimates possibility to include EURONET 50/50 MAX methodology into future legal documents.	LOI attached
Foreseen to integrate		Intends to include EURONET 50/50 MAX methodology into future activities in energy field.	LOI attached
Foreseen to integrate	Energy Agency	Foreseen to integrate EURONET 50/50 MAX methodology and practice in future legal documents and strategies	LOI attached





Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
	Energy Cities is the European association of local authorities in energy transition. Energy Cities supports project concept and intend to promote project methodology widely through its network communication channels.	LOI attached

Contact to local, regional, and national authorities

Personal meetings with authorities:

- Ministry of Energy (22/07/2015)
- Ministry of Education (13/10/2015)
- Energy Agency (19/10/2015; 25/11/2015)
- Association of Local Authorities in Lithuania (13/10/2015; 27/01/2016;)
- Kaunas City Municipality (Head of Education division V.Mazeika; 29/01/2014)
- Lithuanian energy institute (meeting with deputy director R.Levinskas; 18/06/2013).
- Kaunas District Municipality (meeting wit mayor V.Makunas; 04/10/2013).
- Lithuanian Innovation Center (meeting with representative in Kaunas region A.Mickus, 29/11/2013).
- Kazly Rūda municipality (meeting with mayor V.Kanevicius; 25/05/2015)

Contacted authorities:

- Šilalė District Municipality (18/03/2014)
- Šilutė District Municipality (18/03/2014)
- Jurbarkas District Municipality (18/03/2014)
- Vilkaviškis District Municipality (18/03/2014)
- Anykščiai District Municipality (20/03/2014).
- Molėtai District Municipality (20/03/2014).
- Panevėžys City Municipality (20/03/2014).
- Joniškis District Municipality(20/03/2014).
- Pakruojis District Municipality (20/03/2014).
- Akmenės District Municipality (10/04/2014).
- Mažeikiai District Municipality (10/04/2014).
- Elektrėnai City Municipality (16/04/2014)
- Vilnius City Municipality (16/04/2014)
- Kaunas City Municipality (16/04/2014)
- Prienai District Municipality (16/04/2014)
- Kaunas District Municipality (16/04/2014).
- Utena District Municipality (28/08/2014).

Main problems and difficulties

No major difficulties or problems faced in this WP.





2.8. City of Zagreb (ZAGREB)

Institutional Observer of the project

Name of Organization: Croatian Association of Primary School Principals (HUROŠ)

Level: National level

Kind of organization: Association of Primary School Principals

HRVATSKA UDRUGA RAVNATELJA OSNOVNIH ŠKOLA

Description:

The Croatian Association of Primary School Principals (HUROŠ) supports cooperation between primary school principals and their joint work on solving problems distinctive for this type of educational centres. The Association was established on the 10th of February 1995 and currently has 772 members. The goals of the Association include:

- improvement of basic education in the Republic of Croatia,
- cooperation with government, local authorities and administration,
- participation in drafting relevant laws,
- protecting the interests of the Association and its members,
- international cooperation with schools, associations and institutions,
- organization of seminars and conferences,
- cooperation with the media.

The Association decided to become an observer of the EURONET 50/50 MAX project as - being deeply involved in the problems of schooling and education of children - it recognized its educational value for this and for future generations. As HUROŠ is a strong association, which works with nearly all primary schools in Croatia, it has been recognized as a good partner for the dissemination of project ideas and goals. Children are the best advocates for the concepts included in the project and they are the ones, who will one day become the new leaders. It is therefore important to include them and educate them on the need to save energy from a very early age.

Website: huros.skole.hr

Value for the project:

- Dissemination of the project, (includes all primary school principals),
- Spread the 50/50 methodology
- Incorporation of 50/50 into the school statutes of primary schools in Croatia.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
City of Zagreb	City of	The City of Zagreb annual energy efficiency plan for	http://cei.hr/planovi-
annual energy	Zagreb	the year 2016 is a planning document for City of	energetske-ucinkovitosti/
efficiency plan		Zagreb energy efficiency for the duration of one	
for the year		year, which establishes the implementation of	http://eko.zagreb.hr/defaul
2016.		policies for the improvement of energy efficiency.	t.aspx?id=81





The production and implementation of the annual plan is also an obligation in keeping with the Energy efficiency act (Official Gazette 127/2014). The annual plan is adopted by the City's executive body. The Energy efficiency Act also stipulates that the plans are given by the National Energy Efficiency Authority. The Annual plan comprises two main segments: analysis of measures implemented for the previous year and the calculation and proposition of activities for the current year in the aim of reaching the planned savings and the realization of the activities in keeping with the current strategic guidelines and documents of the City of Zagreb.

School Strategies

Strategy	Author	Short description	Publication / Link
Curriculum of the primary school Vrbani	Vrbani [']	The school curricula is an important document for the school functioning and encompass all activities planned for the school in the coming year.	http://www.os-vrbani- zg.skole.hr/Skolski%20kurikulum- 2015-2016.html
Curriculum of the primary school A. Starčević	Primary school A. Starčević	See above	http://os-astarcevica- zg.skole.hr/dokumenti?dm_documen t_id=760&dm_det=1
Curriculum of the primary school Malešnica	Primary school OŠ Malešnica	See above	http://os-malesnica- zg.skole.hr/skola/kurikulum
Curriculum of the catering and tourism college	Ugostiteljsko turističko učilište (Catering and tourism college)	See above	http://uciliste-ugostiteljsko- turisticko- zg.skole.hr/skola/ kolski dokumenti
Curriculum 2015/2016	Secondary school Lucijan Vranjanin	See above	http://www.gimnazija-lvranjanina- zg.skole.hr/dokumenti?dm_documen t_id=134&dm_det=1
Curriculum of the First economic school	First economic school	See above	http://www.ss-prva-ekonomska- zg.skole.hr/upload/ss-prva- ekonomska- zg/images/static3/1187/attachment/ SKOLSKI KURIKULUM 2014 15 %28 1%29.pdf
Annual plan and program for the school	school	The annual plan and program includes all of the activities accepted and included within the school program.	http://www.ss-prva-ekonomska- zg.skole.hr/upload/ss-prva- ekonomska- zg/images/static3/1187/attachment/ GODISNJI PLAN I PROGRAM RADA SKOLE. 2014-2015.pdf





Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
· ·	City of Zagreb	The City of Zagreb Sustainable energy action plan is the basic document, which identifies the situation in the City of Zagreb and gives precise and clear guidelines for the implementation of projects, application of energy efficiency measures, use of renewable sources of energy and ecologically acceptable fuels in the City.	http://eko.zagreb.hr/d efault.aspx?id=81

The City of Zagreb Sustainable energy action plan is the basic document, which identifies the situation in the City of Zagreb and gives precise and clear guidelines for the implementation of projects, application of energy efficiency measures, use of renewable sources of energy and ecologically acceptable fuels in the City. Among other measures, it also includes a subsection 7.3.3 Measures for the buildings of the City Government, institutions and companies owned by the City of Zagreb on the stimulating measures for energy savings (pp 79). The SEAP states measures on the regional level, as the City of Zagreb does not only have the status of local, but also of regional administration, and is thus defined in the Statute of the City of Zagreb and the Act on the City of Zagreb:

- The City of Zagreb, capital of the Republic of Croatia, is a unit of local administration and at the same time of regional administration at county level
- The City's organization and scope of activities are regulated by the Act of the City of Zagreb
- The City of Zagreb is a legal entity represented by the mayor
- The City performs duties within its sphere of powers as both city and county, and other duties in compliance with the law
- Duties of the State Administration within the scope of the Office in the unit of regional administration, and other duties of the State Administration regulated by pertinent law in the City are performed, pursuant to law, by administrative bodies of the City
- The City is independent in decision-making within its sphere of powers pursuant to the Constitution, the law and this Statute
- The City of Zagreb reserves powers and duties as both city and county

Strategic roll-out at national level

Strategy, where	Author	Short description	Publication / Link
50/50 will be			
integrated			
Third national	Ministry of	This document is a "roof" document and the	http://www.mingo
Energy Efficiency	construction	measures here from are elaborated in more detail in	.hr/page/kategorija
Action Plan for	and physical	the documents City of Zagreb Sustainable energy	/propisi-i-strateski-
2014-2016.	planning	action plan and City of Zagreb annual energy	dokumenti-1
		efficiency plan for the year 2016.	

In accordance with European Directive 2006/32 / EC on energy efficiency and energy services (ESD) National Energy Efficiency Program for the period 2008th-2016th was developed and adopted. It laid





down the objectives of energy savings and is the basis for the development of three-year national plans of energy efficiency for the period until 2016. Every action plan analyses the effects and, if necessary, revises the current measures and establishes new sectoral measures to ensure meeting the goal in 2016. This document meets the requirement of Article 24 of EED and it partly meets the reporting requirements of Directive 2010/31 / EC on the energy performance of buildings (EPBD II). As such, this third NAPEnU presents a comprehensive strategy to improve energy efficiency in Croatia.

The National energy efficiency program lists the measures to be undertaken in order to meet the goals set therein, such as Education in the field of energy efficiency which in turn includes various measures (such as introduction of additional classes in primary and secondary schools).

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
EUROCITIES	As per task 4.2.4. Strategic promotion through other networks or initiatives at EU level, the ICLEI was contacted on the possibility on publishing news on the project on their website.	http://www.greendigitalc harter.eu/?s=euronet&su bmit.x=12&submit.y=4
ICLEI	As per task 4.2.4. Strategic promotion through other networks or initiatives at EU level, the ICLEI was contacted on the possibility on publishing news on the project on their website. Several emails have been exchanged; however, the article has not been published yet.	E-mail correspondence
ZagEE	The project is implemented as part of the IEE program for technical assistance 2012. – Mobilization of local energy investments and includes financing of technical assistance as well as the production of the documentation necessary for energy refurbishment of objects, through the allocation of grants. "EURONET 50/50 max - roll-out 50/50 initiative to unlock energy saving in schools and other public buildings", was presented at one of the project meetings.	http://www.eko.zagreb.h r/default.aspx?id=929 https://www.facebook.co m/Euronet-5050-MAX- Hrvatska- 852273698171777/
Mayors In Action	MAYORS in ACTION empowers Coordinators and Supporters (C&S) of the Covenant of Mayors in effectively assisting their municipalities in implementing and monitoring their SEAPs. The European project "EURONET 50/50 max - roll-out 50/50 initiative to unlock energy saving in schools and other public buildings", was hosted during the webinar and its main goals were presented.	http://www.mayorsinacti on.eu/training/webinars/
EleCTra	The Ele.C.Tra. project has important common characteristics with the Smart City model, that promotes a virtuous process including economy, environment, people, living and governance and sustainable mobility in urban areas. The European project "EURONET 50/50 max - roll-out 50/50 initiative to unlock energy saving in schools and other public buildings[/url]", was presented at one of the EleCTra regional meetings.	http://www.eko.zagreb.h r/default.aspx?id=1072





As part of the WP 4, the COZ has contacted two networks (ICLEI; EUROCITIES) in order to establish communication and disseminate the project. As can be seen from the table above, the contact with EUROCITIES has borne fruit and resulted in an article on the Green digital charter site. Also, the project has realized ties with the IEE project Mayors in Action and has been disseminated internationally during the webinar coaching schemes for Local Governments, held on March 5, 2015. The project has also been disseminated on February 26, 2015 at the meeting for the IEE project ZagEE – Zagreb – Energy Efficient City. The project has also been presented on the seminar of the project EleCTra – Electric City Transport.

Contact to local, regional, and national authorities

The project has been presented to other cities and representatives of authorities on various levels on numerous occasions (26 February 2015 - IEE project ZagEE (Zagreb Energy Efficiency City); 11 December 2015 – Ele.C.Tra project regional event), during which occasions the city representatives have expressed interest in the project and the methodology, however after a while; the feedback has not been received.

Main problems and difficulties

The Work Package 4: Strategic roll-out of 50/50 has proven to be somewhat difficult to conduct. The project has shown success in schools and resulted in significant savings and other cities and schools that have not been included this time around, have shown interest in the methodology.

However, the financial pay out that is a part of the project has proven an obstacle for many cities, mostly due to the fact that the majority of strategies where 50/50 could be integrated have already been finalized. The same problem occurred when attempting to include the methodology in national strategies. Also, as is the case with the City of Zagreb Sustainable energy action plan, most other SEAPs and strategies on regional, national and local levels, already have a measure pertaining to programs to be implemented in schools, that partly enter the Euronet50/50 methodology and state the need to educate children on energy, the need to monitor and save it and the reasons why it is important to implement ecological programs and programs of energy awareness in schools. Due to this, and the fact that the strategies have for the most part been finalized, some strategies listed herein do not explicitly state 50/50 methodology, however the measures therein do refer to the goals and aims of the project.





2.9. Riga Managers School (RMS)

Consulting and Training Company **Riga Managers School (RMS)** was founded in 1990. RMS specializes in consulting and trainings for SME, organization of international events, development of social integration projects, and implementation of projects that focus on promotion of Renewable Energy Sources and Rational Use of Energy. Some of the international projects: Developing Local supply chain networks, linking bio-fuel producers with public sector users – Bio-NETT, Establishing Wind Energy Use in Russian Federation (EastWind), Mobilize Energy Awareness (MOBENAW), Raising Awareness on Renewable Energy Developing Agro-energetic Chain Models (RADAR), Management of Domains related to Energy in Local Authorities (MODEL), Clean Drive – Campaign for Cleaner Vehicles in Europe). The company has a constantly updated extensive database of businesses and public organizations of Latvia, with whom she has collaborated for 25 years.

Institutional Observer of the project

Name of Organisation: Riga Energy Agency

Level: local level
Kind of organization: Energy Agency



Description:

Riga Energy Agency (REA) is an appropriate partner for RMS in project EURONET50/50max, because among the objectives of the agency's activities are important:

- Management and coordination of energy supply, energy efficiency and renewable energy sources in Riga municipality;
- Rising awareness amongst the local population.

Value for the project:

- Advising on the interaction with specialists of local governments and administrators of public buildings.
- Provides up to date information of legislative initiatives in the field of energy conservation in Latvia.
- Drew project implementers to participate in the annual Days of Energy Latvia.
- Regularly informed about new available-for-sale technical solutions that contribute to energy savings.
- Participated in the activities of the project and the meeting of the project partners in Riga.
- Monitor the progress of project implementation.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
	• •	existing SEAP	Guidance document "Nolikums",04.01.20 15 (appendix to the SEAP)





SEAP for the	Municipality of	Project documents 50 to 50 are located in the	Minutes of the
city of Jurmala	Liepaj	department of development of the	decision of the
		municipality. Apparently, the decision will be	municipality of
	21.02.2013)a	taken after the election of the new	Jurmala .Nr.273
		composition of the municipality leadership.	09.06. 2015.

School Strategies

- 1. Education Department of Liepaja City Council has developed recommendations for the city's schools, providing for the gradual inclusion of the topic of energy saving in the educational process subjects: physics, biology, chemistry. Raising the issue of teachers' salaries is solved in 2016 will allow to pay for this additional work.
- 2. Part of the schools project participants plan to support the movement 50/50 through participation in various circles, working in their spare lesson time.
- 3. In the moment, only three schools from all 18 schools project participants to join the movement Eco-schools. They will be engaged in energy saving in accordance with the plans of the environmental movement. Thus, continuous monitoring of school achievements in the field of reducing CO_2 emissions after the project EURONET 50/50 MAX will be provided.
- 4. Schools, that are located in the renovated and insulated buildings, chosen strategy more detailed analysis of the sources of energy losses and pay more attention to saving electric energy.

This is the situation with school strategies in Latvia. There is no proof for these school strategies, therefore they do not show up in table 2 *Achieved results of the partners* (page 7).

Strategic roll-out at regional level

As in Latvia, local governments have very much power. Energy saving issues are resolved at local and national level.

Strategic roll-out at national level

As a result of cooperation with the Climate Policy and Technology Department of Ministry of Environmental Protection and Regional Development, the theme of 50/50 it was provided for the development of recommendations at the national level. Prior to March 2016 has not been decided.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
energy in every day life among secondary schools students and teachers.	materials and use of training	TERIALI SKOLOTAJIEM/Skolotaja rok asgramata.pdf





		udzionan - Sici W III I
BEAM 21 s developing and implementing capacity building training programmes for European municipalities	" and and "Building Energy Efficiency" in latvian). The use of these materials has been agreed with the Latvian project partners " Jelgavas reģionālais Pieaugušo izglītības centrs (JRPIC)" Cooperation with Latvian partners of the project (borrowing experience on cooperation opportunities between municipalities and schools) Exchange of experience with experts who participated in the work on the project	goerektivitate.pui
Foundation for Environmental Education (FEE International). Eco-schools program in Latvia	Cooperation with a view to attract the existing Eco-schools in Latvia to participate in the project Exchange of experience with experts.	http://www.videsfonds.lv/lv/ekoskol as
Management of Domains related to Energy in Local authorities (MODEL)	Leading senior specialist from Latvia in the development of MODEL project has been a senior expert of the Latvian partner Evronet5050 project. Designed in the "Model" - Common framework methodology (CFM), contain recommendations for energy services managers in municipalities and recommendations to attract people to the saving of energy resources.	Model Project materials were used in negotiations with municipalities to strengthen the arguments in favor of participation in the project, as well as in the implementation of the project as the guidelines for working with citizens. http://ec.europa.eu/energy/intelligent/projects/en/projects/model
Mobilise Energy Awareness (MOBILISE ENERGYAWARE)	The aim of Mobilise Energy Awareness was to bring about behavioral change in the use of energy in the workplace and the home through the adoption of more energy-intelligent working and living patterns by local end-users. The target group of the project higher education institutions and all citizens.	RMS experts participated in the development of this project. Materials MOBILISE ENERGYAWARE offered to study the representatives of schools and local governments for use in the choice of methods of work in the EURONET50/50 max project. https://ec.europa.eu/energy/intelligent/projects/en/projects/mobilise-energyaware

Contact to local, regional, and national authorities

- Ministry of Environmental Protection and Regional Development
- Latvian ASSOCIATION OF Local and Regional Governments
- Latvian association of big cities

- Liepaja City Council
- Riga City Council
- Jurmala City Council
- Zemgale Energy Agency
- Tukums City Council





Main problems and difficulties

We are faced with three major problems in attracting project participants:

- 1. High load of teachers in schools with low (at the level of the European Union) salary.
- 2. No special energy management departments in almost all municipalities in Latvia. In this regard, energy conservation, unfortunately, solved unprofessionally.
- 3. Specifics of the municipal budget structure. Example: The city of Riga, where the methodology to implement 50/50, despite the endorsement of 50/50 at all municipal levels and lobbying 50/50 ideas from Riga Energy Agency, have failed.

Schools in Riga do not have its own budget. Any cost savings at the school are still fully in the overall budget of the city. With such a system, it is impossible to allocate 50 percent savings for transfer to schools.





2.10. TOP-ENVI Tech Brno (TOP ENVI Tech)

TOP – ENVI Tech Brno Company focuses on complex services in ecology and environment and on lowering energetic demand of companies, objects, municipalities and citizens.

Institutional Observer of the project

Name of Organisation: 1. Division of environment of Brno city municipal authority

2. Environment department of south bohemian district office

Level: local/regional

Kind of organization: Municipality/ district office

Description: 1. Observer manages environmental issues in the statutory city of Brno, which has 404,000 inhabitants, 29 districts, 80 elementary schools. Brno is the capital of South Moravia.

2. Observer regulates environmental issues in the area of 719,000 hectares, which has 1,169 thousand inhabitants, 7 districts and 673 municipalities.

Value for the project:

Both observers have great value for the project because it means administration for 1169 thousand inhabitants, means 15% of Czech inhabitants.

Strategic roll-out at local level

Since the complete results from EURONET project, were not know at the time, we couldn't come with long-term strategic plan.

School Strategies

Strategy	Author	•	Publication / Link
	Employees of the company TopEnvi Tech	Activity of some schools after the end of project EURONET 50/50 max. Schools was discussed that: -after its completion they will be transferred to the borrowed instruments -these schools will be following the project methods for their curriculum and they will make pupils aware of energy saving problematics	

Strategic roll-out at regional level

Convention of Mayors is used and therefore known in west countries of EU. Czech Mayors are participating only very rarely and therefore they do not have connections to project activities like EURONET etc.





Strategic roll-out at national level

Strategy, where 50/50 will be integrated	Author	•	Publication Link
	of the company TopEnvi Tech	The whole country strategy of project presentation EURONET to deputies of wholeworld project Globe CZ. In year 2015, they were introduced with procedures and principals of EURONET 50/50 MAX project. It has been agreed that after the end of project EURONET 50/50 MAX in year 2016 they will be provided with information about its progress and results.	

Cooperation with EU-level initiatives or networks

On our level, we have too less information and bindings for processing of this strategy.

Contact to local, regional, and national authorities

Authorities to contact:

National level

Officers of Ministry of Environment ČR

Officers of State fond of Environment ČR

Regional level

Officers of Environmental inspection Brno for region South Moravia

Officers of State energetic inspection Brno for region South Moravia

Local level

Officers of Environmental department of Brno municipal authority

Main problems and difficulties

The main problems came out mostly from different conditions of national environment against well-established procedures in old (West) EU countries:

- School curriculum is given, its changes are long process with unsure result.
- Mayors have no experience with energy cost saving problematic. They are very rarely participating in the mayor convention and their activity is very different.





2.11. Florentine Energy Agency (AFE)

Institutional Observer of the project

1. Province of Florence

Level: Metropolitan Area

Kind of organization: State local administration of the city's subway and the province of Florence.

Description: The province of Florence was the majority shareholder of AFE.

Value for the project: Institutional partner.

2. Toscana Region

Level: Region Area

Kind of organization: State Regional administration.

Description: The Toscana region is now the majority shareholder of AFE.

Value for the project: Institutional partner.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
City Council regulation on the management of sports facilities		Plan to streamline the public sports facilities using energy and spending less, include European projects such as Euronet 50/50+.	"New regulation in the use of public sports facilities" City of Florence -art.9 c.7bis, Release y2015.
Protocol of Accession to the energy saving programme	Municipality of Londa	exchange of data and synergies for the establishment of good practices in public buildings	signed documents, planning in progress
Protocol of Accession to the energy saving programme	Municipality of Pelago	exchange of data and synergies for the establishment of good practices in public buildings	signed documents, planning in progress
Protocol of Accession to the energy saving programme	Municipality of Pian di Sco	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress





Protocol of Accession to the energy saving programme	Municipality of Pontassieve	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving programme	Municipality of Reggello	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving programme	Municipality of Rignano sull'Arno	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving programme	Municipality of Rufina	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving programme	Municipality of San Godenzo	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program		exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Scarperia	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Tavarnelle val di Pesa	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Bagno a Ripoli	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Barberino di Mugello	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Borgo san Lorenzo	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress





Protocol of Accession to the energy saving program	Municipality of Firenze	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Vicchio	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Dicomano	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Municipality of Impruneta	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress
Protocol of Accession to the energy saving program	Incisa val d'Arno	exchange of data and synergies for the establishment of good practices in public buildings	signed documents , planning in progress

School Strategies

Strategy	Author	Short description	Publication / Link
Web site dissemination	Energy Team School Ghandi (Florence) & AFE	Dissemination climate indoor reliefs	http://www.icsgandhifirenze. gov.it/progetti/euronet-50- 50-2013-2016/217-il-nostro- lavoro-esposto-alla-festa- della-scuola.html
Game-book		Through the works of art to develop good energy practices for the use of schools visiting	Print publication now in use

Contact to local, regional, and national authorities

 $\textbf{Dott. Andrea Vannucci} \ - \underline{assessore.vannucci@comune.fi.it}$

Dott. Enrico Maria Mayrhofer - segreteria.bruxelles@regione.toscana.it

Main problems and difficulties

- The need to improve the programs and the data exchange technology $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$
- The enthusiasm for this way of working needs longer time to give more results in the planning





2.12. Climate Alliance – Austria (CAA)

Climate Alliance is the largest municipal climate protection network in Europe and is active in 25 European countries. Municipalities, schools, and businesses build a partnership with indigenous organizations in the Amazon region in Brazil. The goals of the Climate Alliance partners is the reduction of climate-damaging emissions and the protection of the rainforest. With more than 950 municipalities, over 990 businesses and 480 schools Austria has one of the biggest national organizations of Climate Alliance. The first step of the strategic roll-out was to promote the 50/50 concept via the network of Climate Alliance Austria. The CAA newsletter has been sent to around 700 contacts via email, the printed CAA magazine has been sent to more than 10 000 contacts in Austria.

Institutional Observer of the project

Name of Organisation: Environmental Education Forum / Forum Umweltbildung
Level: The Environmental Education Forum is working on national

level.

Kind of organization: The Environmental Education Forum is dealing with

educational matters.



Description:

FORUM Umweltbildung is an initiative of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management and the Austrian Federal Ministry for Education and Women's affairs. FORUM Umweltbildung offers educational support via publications, websites, events like conferences and workshops, innovative flagship projects, educational networks, educational funds and personal contacts. FORUM Umweltbildung works for a target group of educators in the formal (schools and universities) and non-formal (further education, adult education) educational sector in Austria.

Value for the project:

- Dissemination of 50/50 among schools and partners of their network (schools with the Austrian environmental sign; OEKOLOG schools)
- Articles in the newsletter
- Posts on Facebook
- 50/50 exhibition stand at the "Sommerakademie" (further training offer for teachers and extracurricular teachers)

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
		include 50/50.	Not finished, Letter of confirmation in the attached document
•	Wiener Neustadt	their compulsory schools in the next school year.	Project, no strategy, see Letter of confirmation in the attached document





50/50 project C of the city of Bregenz	their primary schools since January 2016.	Project, no strategy, see Letter of confirmation in the attached document
50/50 project C of the city of Graz	Graz plans to implement a 50/50 project in 19 schools in cooperation with CAA in the school year 2016/2017.	Project, no strategy

School Strategies

Austrian schools do not have their own curricula for environmental issues. Therefore, it was impossible to find school strategies at local level. The school strategies at regional and national level are all finalized. Maybe there will be a chance to integrate the 50/50 concept during the next revision of some strategies.

Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
Revision of the Implementation concept "Climate and Energy - model region Styrian Nature Park Eisenwurzen"		Sensible and sustainable use of existing regional resources for energy supply, increase energy efficiency and save energy are the goals of the Austrian "Climate and Energy Model Regions" regions. This is one of the most successful Austrian initiatives of the recent years of the Austrian Federal Government.	Not finished, Letter of confirmation in attached document
Implementation concept "Climate and Energy - model region Energieregion Weiz – Gleisdorf"	Model Region Management DI Franz Kern	see above	Not finished, Letter of confirmation in attached document
Revision of "E 25 Energy Strategy"	Styrian Provincial Government		The revision of E 25 is not finished, but you can already find the 50/50 concept on the website: http://www.energie.steiermark.at/cms/beitrag/1197050 9/48009231/
50/50 project "Energiesparen an Steirischen Schulen" (Energy saving at Styrian schools)	Styrian Provincial Government and CAA	"50/50 - Energy saving at schools" is an energy saving project for Styrian schools. Every second school year 13 schools are participating. The main objective of the project is to reduce the energy consumption of the schools	t/5050 www.bmgf.gv.at/cms/home/





through behavioural changes. Part of	<u>jugendgesundheitsstrategie</u>
the project is a competition between	massnahmenuebersicht 201
the schools.	4 3.pdf (page 5, 1.row)

Strategic roll-out at national level

All relevant Austrian energy plans and strategies on national level are completed. Therefore, it was impossible to integrate 50/50 in these strategies.

"Climate Schools" is a new program of the Climate and Energy Fund, where all climate and energy model regions and their schools can participate. The aim of the "Climate Schools" is to carry out projects with the students to raise awareness of the challenges of climate change. Pupils, teachers and headmasters should develop an intensive and long-term awareness of climate and energy issues. Although the program does not mention 50/50 directly, the idea of energy saving by change of behaviour has been taken over.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
100% RES communities	At the Study Tour "Renewable Energy and Energy Efficiency" (Lead projects in Styria) from the 9th to the 11 th of March 2015 a Slovenian delegation of mayors and energy experts visited the Primary school of Weiz. The children explained the 50/50 project. The delegation got the flyer and brochures in Slovenian language, provided from the Slovenian project partner KSSENA.	Article in newspaper: http://www.meinbezirk.at/weiz/lok ales/energiesparen-slowenische-
SEAP-PLUS	At the annual conference of CAA and the Austrian final event of SEAP-PLUS we organized the workshop "Euronet 50/50 Max – Energy saving at schools and other public buildings"	http://doku.cac.at/klimabuendnis j ahreskonferenz 2014 koetschach.p df
Covenant of Mayors	On the website of the covenant of mayors was published a CASE STUDY of the city of Weiz named "Unlocking energy savings in the schools", describing the 50/50 activities of the city and the project EURONET 50/50 MAX.	http://www.covenantofmayors.eu/I MG/pdf/Weiz.pdf

Contact to local, regional, and national authorities

During the project, CAA contacted around 150 local authorities. 45 municipalities of them implemented or are still implementing the 50/50 concept in one or two of their schools. One municipality implemented 50/50 in a non-educational building. CAA also contacted the Austrian Association of Municipalities, who promoted the project in its magazine and on its website.

At regional level, CAA contacted the provincial government of Styria and two so-called "Climate and energy model regions". All three are implementing 50/50 or integrated the concept into their strategies.

The national level seemed to be the most difficult level in Austria. CAA contacted several offices and organisations working on this level, but the strategic roll-out at national level did not work.





Main problems and difficulties

In Austria, there are only 13 signatories of the CoM and only one of these municipalities is currently working on the SEAP. Therefor it was much easier to start and support local 50/50 projects with additional schools than find relevant local strategies.

Most of the climate and energy action plans and strategies are on regional level in Austria, like the Austrian "Climate and Energy Model Regions", an initiative of the Austrian Federal Government. At this level, four Austrian strategies integrate the concept. As the initiative "Climate and Energy Model Regions" goes on, Austria gets more and more of these regions. It is very likely that other regions will integrate 50/50 in their implementation concept.

On national level, the relevant action plans and strategies are finalized. The only chance to integrate 50/50 in some of these concept is during the next revision.

2.13. Province of Huelva (DIHU)

Supramunicipal or Provincial Administration. Our main function is providing technical and legal support to 79 municipalities of the province of Huelva, mainly small ones.

Service of Environment and Energy, currently belong to the Department of Infrastructure, Environment and Planning, is responsible, among other functions, to manage the collection and treatment of waste throughout the province, the fulfillment of the commitments of the Covenant of Mayors (SEAPs), the implementing regulations of noise and light, as well as procedures for environmental assessment. In addition to these permanent tasks, it also involved in the implementation of European projects for many years related to the field of energy and sustainable environmental development.

It very difficult to determinate the number of contacts in our database. Over 700 people are working currently in this administration. DIHU serves approximately to 79 municipalities (over than 60 of them with less than 20.000 inhabitants). Due to the implementation of European projects, we have an enormous database of contacts both for looking for partners and to implement these projects. You can see the database used for Euronet 50/50 MAX into the folder that I have attached to this report.

Institutional Observer of the project

Energy Agency of Huelva province (APEH)

Level: Regional
Kind of organization: Energy Agency



Description:

APEH develops European projects in the field of energy, benchmark for local dissemination.

Value for the project:

This non-profit association has competence in the field of environmental awareness, provides technical assistance to all municipalities in the province of Huelva and participates in European projects working closely together on many initiatives with the Diputación Provincial de Huelva.





Sustainability Department . University of Huelva

Level: Regional **Kind of organization**: University

Aula de Sostenibilidad

Description:

Representative entity, competent and responsible of environmental policy of the University of Huelva.

Value for the project:

This Department of the University of Huelva is responsible for the implementation of various communication campaigns, environmental awareness and volunteering activities in the whole of the Province of Huelva. Due to its strategic position, it interacts with numerous departments and teachers related to the field of education at all levels so it can provide many contacts and dissemination of the project.

• Europe Direct Huelva

Level: Local/European

Kind of organization: European Network



Description:

Europe Direct Huelva is the European Information Centre of Diputación de Huelva and part of the Europe Direct Information Network, created by the European Commission in 2005. It consists of 498 centres across 27 countries.

Value for the project:

This communication network at European level can serve as a window to Europe through which you can show all progress and activities within the project to other stakeholders at European level.

Strategic roll-out at local level

Author	Short description	Publication / Link
City Council of Málaga City.	have received a request of information to implement 50/50 methodology in Málaga City Schools. This city with over than 570.000 inhabitants. On 2015/09/18 was approved by the city council of Málaga the text of a 50/50 Plan. This document based on Euronet 50/50 MAX project aims to	Document: http://malagaahora.org/wp- content/uploads/2015/07/1809-Plan- 5050.pdf Notice: http://malagaahora.org/cuatro- colegios-pondran-en-marcha-el-plan- de-ahorro-energetico-presentado-por- malaga-ahora/
	City Council of Málaga	City Council of Málaga City. Last Report: On 2015.9.22, we have received a request of information to implement 50/50 methodology in Málaga City Schools. This city with over than 570.000 inhabitants. On 2015/09/18 was approved by the city council of Málaga the text of a 50/50 Plan. This document based on Euronet





			buildings 307 W.H.
		schools during 2016, 10 schools during 2017 and 20 schools during 2018.	
Alharín de la Torre Municipality		Alhaurín de la Torre is a municipality belong to province of Málaga with over 38000 inhabitants. The text of municipal proposal was approved in November 2015.	See attachment And: http://www.alhaurindelatorre.es/es/ac tualidad/3653-una-iniciativa- incentivara-el-consumo-energetico- responsable-en-los-colegios-de- alhaurin-de-la-torre
Local implementation in Bollullos Par del Condado		This strategy attempts to implement the 50/50 concept in all public buildings within "Bollullos Par del Condado" Municipality	See attachment Video1:http://www.condavision.es/rec uperemos-bollullos-por-el-desarrollo- sostenible/ Video2: https://www.youtube.com/watch?v=in IMZMO7ZBw&feature=youtu.be
Private Initiative	Helianto Asociation	Implementation of the 50/50 in several schools of Navarre Region like a private initiative. Firstly, a pilot experience was done in one primary school ("G.P.Griseras") among 5 th grade children (10/11 years young). Citation:" "Our intention is to gradually implement it in all public schools of Tudela. On the other hand, we know that this project was born with regional vocation, so we hope that our previous experience as pioneers can inspire other localities"	Document: http://www.tudela.es/uploads/archivo s/ilumina-tudela-21-03-2016.pdf http://www.tudela.es/noticia/ilumina- tudela-un-nuevo-proyecto-educativo- y-medioambiental-para-los-escolares- de-tudela
Inclusion of 50/50 Methodology within future services offered by Diputación de Huelva to all municipalities of the Province	Diputación de Huelva	Diputación de Huelva is a provincial administration and as such, it offers a range of services to all municipalities. It has a phone number (079) and a charter of services, which can be asked for by any municipalities. Project Team has achieved included the 50/50 concept and promote energy efficiency among public buildings as a service that is expected to be included in a near future.	See attachment
50/50 integration within the waste awareness campaigns		During February and March 2015, 5 awareness sessions were conducted where over than 100 pupils learnt how to save energy	See attachment





			buildings 301WH.
	Euronet 50/50 MAX.	and wastes. Each school received a recycling truck	
50/50 Project in Granada City Schools	Provincial Energy Agency of Granada	information and Invitation Letter. This energy agency doesn't make any activity related with Euronet so far, although they were planning to use Euronet methodology in several municipalities	On April 11 th , 2016, we received an email, which communicate us: "The truth is that we look forward to being able to replicate the Euronet 50/50 MAX experiences, but definitely have not had the expected response of municipalities, nor sufficient resources to adequately transfer them the concept, therefore we definitely made a simpler activity education".
Local implementation 50/50 concept in Jerez de la Frontera, Municipality	Jerez de la Frontera Municipality , Cádiz City Andalusia Region	Firstly, in 2016/ 4 schools, 10 in 2017 and 20 in 2018. Integration of 50/50 concept within Jerez de la Frontera PAES. Plenary agreed to request to Regional Government more financial support (over than 212.800 inhabitants)Date:2015/12/23	Link (see page 69) http://www.jerez.es/fileadmin/Docum entos/Transparencia/Actas Plenos/Act a%20Pleno%20151223%20Ordinario.p df
Local implementation 50/50 concept in Mairena del Aljarafe Municipality	Aljarafe	Integration of 50/50 concept within Mirena del Aljarafe in a future PAES (over than 44.400 inhabitants). Date:2015/11/23	Link (see page 73): http://www.mairenadelaljarafe.es/we b/sites/default/files/01- %20Acta%2023%20de%20noviembre% 20de%202015.pdf Video: https://www.youtube.com/watch?v=Il 8PE-w1M8Q
Local implementation 50/50 concept in Fuenmayor Municipality		Firstly in one school, and secondly in the rest of municipal buildings.(over than 317.000 inhabitants). Date: 2015/11/30	See attachment Link (see page 6): http://www.fuenmayor.org/es/seccion es-documento.asp?id=181
- Local implementation 50/50 concept in Logroño City	Logroño, Capital City of La Rioja Region	Firstly, in 2016/ 5 schools, 12 in 2017 and the rest in 2018 (22 schools), and the integration of 50/50 concept within Logroño PAES (over than 151.000 inhabitants) Date: 2015/12/03	See attachment Link (see page 40): http://www.xnlogroo- Owa.es/wps/wcm/connect/3bc3d2804 ac47fbdbd73bda392c903ce/Orden+del +d%C3%ADa+3-12- 15.pdf?MOD=AJPERES&CONVERT_TO= url&CACHEID=3bc3d2804ac47fbdbd73 bda392c903ce





		Video: https://www.youtube.com/watch?v=z 9PaJH6Uf 4
Local implementation 50/50 concept in Albacete City	In all public Buildings and the integration of 50/50 concept within Logroño PAES (over than 151.000 inhabitants). Plenary agreed to request to Regional Government the implementation in all secondary schools too, as their management correspond to them. Date: 2016/02/25	Link (see page 34): https://online.ayto- albacete.es/TAE/documentoPublico/do wnload/1591 Video: https://www.youtube.com/watch?v=B S8omfu08gs
Local implementation 50/50 concept in Bilbao City	Firstly, in 2016/ 6 schools, 12 in 2017 and the rest in 2018. And trying to integrated in all public building between 2015-2019 (over than 345.000 inhabitants).Integration of 50/50 concept within Bilbao PAES.Date:2016/01/28	Link (see page 5): http://www.bilbao.net/cs/Satellite?blo bcol=urldata&blobheader=application %2Fpdf&blobheadername1=Content- disposition&blobheadername2=pragm a&blobheadervalue1=attachment%3B+ filename%3Dord_pleno20160128.pdf& blobheadervalue2=public&blobkey=id &blobtable=MungoBlobs&blobwhere= 1274098784957&ssbinary=true

School Strategies

Strategy	Author	Short description	Publication / Link
Integration 50/50 concept in The Subject "Didactics of Natural Sciences II" (4º Teaching Degree. University of Huelva).	Educational Sciences. Teaching degree of primary	A training session was aimed at future teachers of primary schools and the inclusion of 50/50 concept was achieved within the program of the subject "Teaching of Natural Sciences II" (2015)	
,	Educational Sciences.	in secondary & professional Training levels and language	Document of justification : The commitment document hasn't been signed yet but we are currently in contact for dealing this issue.
professional Training and Language Teaching.	de la Heras	content of the matters relating to the appropriate teaching specialization and the contents of didactic knowledge around the teaching and learning processes.	Information about Master: http://www.uhu.es/mastersoficiales/ estudios/oferta-academica-2015- 2016/master-en-profesorado





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			15 Of 12015 17 21
Explaining and integration of 50/50 concept in a provincial ECO-Schools Meeting, Province of Huelva	Olga Borrego Enrique (teacher of "El Lince" Primary School)	On 2016/1/21 was held a provincial EcoSchools meeting, where several schools showed different activities, which they were implementing on environmental and energy efficiency training in their schools. One of our schools "El Lince" from Almonte municipality explained how to integrate 50/50 concept within Ecoschools methodology and within programme of different thematic subjects.	See attachment PRIMERA FASE: CORMACIÓN SEGUNDA FASE: AUDITORIA (alumnado) Valendas rendições asser d'unive como de la co

Strategic roll-out at regional level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
Integration 50/50 concept in The Inter-Provincial Official Master "Environmental Educators".	of Educational Sciences. Teaching degree of primary education. Mari Angeles de las Heras	Area with these characteristics. It is	Document of justification: This kind of Masters are regulated by national regulations and have to be registered Official Spanish Gazette and in coordination with all universities participants. This is the reason why we don't have an official commitment document yet. Information about Master: https://www.uco.es/estudios/i dep/masteres/educador- ambiental





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Strategic roll-out at national level

Strategy, where 50/50 will be integrated	Author	Short description	Publication / Link
Social and Environmentally Sustainable Municipalities Initiative	Platform	Similar to the Covenant of Mayors more than 60 municipalities and 10 political parties have signed a manifesto to include guidelines for increasing sustainability. One of the measures (number 6) says: Implement energy efficiency programs in schools, as the project 50/50, proven tool for saving and environmental education, consisting of return 50% of the savings to school, through direct subsidy and reinvesting the other half in new measures savings, efficiency and renewables in the same school, with the participation in the decision of the municipal corporation.	See attachment Web: https://municipioss ostenibles.wordpre ss.com/
CENEAM (National Centre for Environmental Education)	Ministry for Agriculture, Environment & Food	Including EURONET 50/50 MAX in the website of CENEAM(National Centre for Environmental Education)Ministry for Agriculture, Environment & Food	http://www.magr ama.gob.es/es/cen eam/recursos/pag- web/euronet-50- 50-max.aspx

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
SmartSpaces	This European Project has included a link of Euronet50/50 into its website.	http://www.smartspace s.eu/en/links/
Emilie Project	This European Project has included a link of Euronet50/50 into its website	http://www.emilieproje ct.eu/es/news/euronet- 5050-max.aspx
FIESTA Project	This European Project has included a link of Euronet50/50 into its website. This project has developed an interesting guide addressed mainly to families that is a complementary document to other ones of Euronet 50/50MAX project.	http://www.fiesta- audit.eu/es/aprende- m%C3%A1s/ http://www.fiesta-





DIHU will give up this guide among their 12 schools in the province.

audit.eu/en/learning/

Contact to local, regional, and national authorities

Local level-

We had committed to implementing the project in 10 schools and finally we have done it in 12. We have focused our efforts on promoting the project locally in the areas of influence of the Diputación de Huelva as a supra-municipal administration, the participating municipalities and our observers. Some actions undertaken were: we have proposed to incorporate the implementation of energy efficiency projects in buildings in the service record of the deputation, promoted the implementation of the project beyond the implementation of the project, estimating its possible implementation by an external service or private service, one of the municipalities (Bollullos Par del Condado) it has decided to implement the project in all its public buildings and another municipality is very interested in doing the same (Moguer). Thanks to our observer from the University, we have managed to promote the initiative in three educational strategies at different levels.

For the other hand, a survey to evaluate the interest in implement a 50/50 project was sent at local level address to all schools (private and public) and other educational buildings (Adult centres, conservatories, vocational training centres etc. of the province of Huelva. These are over 440 buildings. 29 answers were received and 28 of them are very interested in implement some initiative related to energy efficiency like 50/50 methodology.

Regional Level-

We have contacted various administrations, and all are very interested in participating in the project but finally due to competence and administrative reasons we do not get demonstrable results, although we positively promoted the project in the different meetings. Below we summarize the entities with whom we contacted and the topics covered:

AAE- Andalusian Energy Agency: We had a meeting in which the project inform this agency. They were very interested in this kind of projects were effectively conducted within all its public buildings. In fact, they were already performing a similar activity called "Energy patrols in schools" (but did not include incentives of 50%). They were waiting to see the results of the project, guidelines for public buildings and evaluate how to implement a broader level in their facilities.

Junta de Andalucia: 5 Meetings have been held with this regional administration with different objectives:

First meeting aimed to present the project to technician assigned by the Educational Guidance Service of the Local Office of Education.

A second with ISE- Andalusian Public Entity of Infrastructures and Educational Services of the Regional Ministry of Education. The objective was to try to get funding to provide the necessary materials to schools to implement the 50/50 methodology (meters, possible some technical support etc. ...) and promote small investments in buildings participate in these 50/50 projects. We were told that "they were only now intervening in boiler changes and to do new investments, further studies in depth were necessary"

In a third meeting Euronet 50/50 MAX was showed to the service responsible for the educational guidance of the delegation of education in Huelva with the objective of implementing a provincial level the 50/50 concept among all colleges and decide the approach that we should give to incorporate this





methodology. It was observed that the best and fastest way to include the 9 steps would be including it within an existing program like the Eco-Schools program. Achievement that finally achieved after contacting Eco-Schools International

The 4th and 5th meetings focused on integrating of project into two roll-out actions coordinated by the Delegation of Education in Huelva:

Performing a teacher training course within the Centres/Teachers Training Plan focused on the project methodology EURONET 50/50 MAX (Private External training coordinated by the administration for those centres that request it)

To participate into Cicerones Initiative: Pilot projects in 18 municipalities from 6 provinces to promote and foster entrepreneurship culture in the education system of Andalusia. The aim was to integrate sustainability and the 50/50 concept transversely in all business initiatives proposed by students.

Universities: Thanks to the inclusion of the 50/50 concept in one of the sessions of interprovincial master was achieved to spread very positively this methodology among future private practitioners of environmental education in several provinces of Andalusia. For this session a private approach was gave to the 50/50 concept addressed to entrepreneurship.

FIRST PRIZE: A fact that could be considered a positive roll-out of the project Euronet 50/50 MAX was awarded first place in the VI Contest of Good Practices in Environmental Education and Urban Sustainability in Andalusia. Awarded by the Andalusian Federation of Municipalities and Provinces (Nov 10th, 2015).

National and international Level-

Eco-Schools (National and international) - After some conversations with national and international eco-schools, and always in coordination with DIBA, finally he managed to integrate the nine steps of the methodology 50/50 among the steps already established the Eco-Schools program.

RECC - Cities for Climate Network (belong to Spanish Municipalities and Provinces Federation, in which Diputación de Huelva takes part). They launched a children's climate change campaign in 2015. Some materials were distributed by this network for those municipalities that request. The project team requested these materials for the twelve participating schools in Euronet 50/50 MAX and included them within the contents of the 9 steps of the project Euronet 50/50 MAX as a complementary activity of project.

Other contacted entities may be mentioned are:

Greenpeace- We sent a lot of emails and called them several times to Greenpeace Andalusia and I haven't received any answer so far.

National Centre for Educational Research and Innovation (Spanish Ministry for Education, Culture and Sports)

CENEAM (National Centre for Environmental Education) Ministry for Agriculture, Environment & Food. We weren't able to have enough influence how to achieved some verifiable result but they were interesting in this type of the methodologies.





Main problems and difficulties

The main deviation in this WP has been the impossibility of implementing the project in any non-educational building. During the first year of implementation, it was attempted in council buildings, particularly in the Ibero-American Athletics Forum, but the lack of commitment and coordination derived from the inner workings of the administration made it impossible.

During the second year he was tried to implement in two buildings at the University of Huelva (classrooms and several departments -offices-), but although we got some students initially interested in forming energy team, these finally gave up to make it up. It was further noted that it was very difficult to track and assess rooms due to their different operating hours and little potential for control of heating/cooling systems and lighting.

The greatest difficulty in addressing the WP4 has been to involve the agents involved levels higher than municipal ones. On the other hand, the both municipal and supramunicipal levels of administration like DIHU do not have competence in education this is the reason why we have been so difficult to influence educational strategies.

2.14. Cyprus Energy Agency (CEA)

The Cyprus Energy Agency (CEA) is a non-profit organization that was established in February 2009 to promote renewable energy sources, energy efficiency and sustainable transport in Cyprus.

The establishment of the Cyprus Energy Agency was co-funded by the European Commission through the Intelligent Energy Europe Programme (75%) and the Cyprus Union of Communities (25%) for the period 2009-2012.

The Cyprus Energy Agency's main scopes are public awareness raising, education/training of engineers, technicians and other target groups and promotion of local/European/international cooperation on the topics of renewable energy sources, energy saving and sustainable transport. Thus, several actions are being implemented, such as education presentations to several target groups, distribution of informative booklets, educational/training seminars/workshops/conferences, participation in research projects and in several European and national co-funded projects. The Cyprus Energy Agency has also been appointed by the Local Authorities Organizations to be the Supporting Structure of the "Covenant of Mayors" in Cyprus.

Since its establishment, CEA has developed a wide network, both at EU and at national level and its database counts more than 4700 contacts and remarkable are the educational activities of CEA as have been among the 10 best in Europe based on the evaluation made for the "Local Energy Action Awards 2012".

Particular emphasis was given on training of pupils and students. Through enjoyable activities and presentations, competitions, distribution of printed materials, experiments and demonstration material, young people consolidate how to save energy through simple activities, become familiar with renewable energy sources and the ways in which they can help to protect the environment. So far, the Cyprus Energy Agency has visited more than 250 schools of all education levels, informed more than 32,000 students and 2,400 teachers.





Institutional Observer of the project

 Environmental Information Centre of Larnaka Mountainous Area (letter of confirmation attached)

Level: Regional

Kind of organization: Private

Description: The Environmental Information Centre of Larnaka Mountainous Area was founded by the Larnaka District Development Agency in 2012.

The objectives of the Centre are:

- The development of an ecological consciousness and the encouragement of a positive attitude towards the environment in children and adults alike.
- Educating and briefing visitors on the significant elements that make up the Mountainous Region of Larnaka and on how they can enjoy first-hand these elements
- The protection of sensitive forests and other natural regions due to the fact that visitors are briefed on their ecological value.

The Environmental Information Centre of Larnaka Mountainous Area was awarded in 2014 with the 4th Environmental Awards Green Dot Cyprus in the category "Green Service/Product".

Value for the project: The Centre offers many information programs addressed to primary school and kindergarten students. Also, in cooperation with CEA, the Centre since September 2015 offers educational programmes to primary school students on the topic of Energy. The location of the Centre-in an exceptional access to the Nicosia-Limassol motorway-facilitates school visits from all over the districts of Cyprus. Therefore, a considerable number of schools visit every year the Centre, in order to attend the information and educational programmes. At the reception of the Centre, brochures of EURONET 50/50 max are being displaced and the program's coordinator gives one to each school and advises them to contact CEA for more information. Thus, through the Centre's educational activities, the EURONET 50/50 max can reach more and more schools.

Cyprus Pedagogical Institute (letter of confirmation attached)

Level: National

Kind of organization: Governmental

Description: The Cyprus Pedagogical Institute (CPI) was founded in 1972 and it is a department of the Cyprus Ministry of Education and Culture.

The Cyprus Pedagogical Institute's mission is to ensure the continuous training of teachers of all education levels, to keep them updated about the latest trends in education and facilitate teachers in their quest for professional and personal development.

Cyprus Pedagogical Institute's objectives are:

- Training of teachers of all education levels, with mandatory programs and optional courses
- Conduction of educational research and evaluation studies
- Monitoring modern trends in Pedagogy
- Promoting the use of ICT in Education





 Writing and publishing of books of educational interest, design and production of teaching materials and books

Value for the project:

The Cyprus Pedagogical Institute gives special attention to environmental education at schools and environmental awareness among students. A recent example is the development of the Curriculum of Environmental Education/Education for Sustainable Development that is implemented to all primary schools since 2012. "Energy" is included to the curriculum as one of the environmental subjects/issues to be examined by schools.

The teachers continuously contact the CPI's team responsible for Environmental Education, in order to ask advice about the implementation of environmental actions at their schools and the determination of school's environmental education policy. The Cyprus Energy Agency has informed the CPI about the launch of the 50/50 project in Cyprus, as a practical programme that will facilitate schools to fulfil learning outcomes concerning Energy. Furthermore, the Energy Box was given to the Coordinator of Environmental Education of CPI, in order to better explain to teachers the implementation of 50/50 to schools. Thus, the CPI advises schools that are going to examine Energy issues that they can apply the 50/50 methodology and use the relevant educational material.

Also, the Cyprus Pedagogical Institute gave the opportunity to CEA to promote EURONET 50/50 max at a conference that was attended by more than 250 teachers, who had the opportunity to be informed about the project and the results of its implementation in Cyprus. CEA was one of the organizers of the conference and schools participating in 50/50 project had the opportunity to make a presentation about the energy saving actions they implemented. The conference was accompanied by exhibition of posters, drawings, leaflets and other material that the participating schools developed within the project.

3. Ministry of Education and Culture (letter of confirmation attached)

Level: National

Kind of organization: Governmental

Description: The Ministry of Education and Culture is the national governmental organization that administers the system of elementary, secondary and university education in Cyprus. Its mission is to promote student development, achievement, and preparation for global competitiveness by fostering educational excellence and ensuring equal access. The Ministry of Education and Culture is responsible for the proper operation of schools, the determination and revision of national curriculums and educational policies and for providing support to teachers in order to gain the necessary competences and knowledge to provide excellent education.

Value for the project:

The Cyprus Energy Agency has informed the Ministry of Education and Culture about the implementation of EURONET 50/50 max in Cyprus and asked permission from the Directory of Primary Education in order to inform the schools about the project. The Department of Primary Education has responded positively to CEA's request and gave their permission to inform schools about the project and to select 10 schools to participate in the 50/50 project.

Furthermore, the Directory of Primary Education has offered their help and suggested that we can cooperate with the team of Environmental Education, in order to facilitate a smooth implementation of the project in the participating schools.





The Ministry has also invited all primary and secondary schools to the conference that was held on the 29th of March 2016 on the topics of Sustainable Schools and EURONET 50/50 max. As a result more than 250 teachers had the opportunity to learn about the 50/50 project and take with them informative material about the project, as well as the e-pack.

Strategic roll-out at local level

Strategy	Author	Short description	Publication / Link
SEAP of Municipality of Aradippou	Cyprus Energy Agency	The SEAP has already been submitted and the 50/50 methodology has been included in the energy saving measures	http://www.pattodeisindaci.eu/ about/signatories en.html?city id=7224&seap
SEAP of Municipality of Aglantzia	Cyprus Energy Agency	revised and the 50/50 methodology has been included in the energy saving measures.	See attachment - The SEAP has not been submitted yet. It will be submitted along with the progress report for the implementation of the Covenant of Mayors in Cyprus.
SEAP of Municipality of Egkomi	Cyprus Energy Agency	revised and the 50/50 methodology has been included in the energy saving measures.	See attachment - The SEAP has not been submitted yet. It will be submitted along with the progress report for the implementation of the Covenant of Mayors in Cyprus.
SEAP of Municipality of Latsia	Cyprus Energy Agency	revised and the 50/50 methodology has been included in the energy saving measures.	See attachment - The SEAP has not been submitted yet. It will be submitted along with the progress report for the implementation of the Covenant of Mayors in Cyprus.
SEAP of Municipality of Nicosia	Cyprus Energy Agency	revised and the 50/50 methodology has been included in the energy saving measures.	See attachment - The SEAP has not been submitted yet. It will be submitted along with the progress report for the implementation of the Covenant of Mayors in Cyprus.

Educational Strategies

We could not include the 50/50 methodology in the national educational strategy, because the national Strategy/action plan and the Curriculum for Environmental Education/Education of Sustainable Development were determined and published before the launch of EURONET 50/50 max in Cyprus.





Strategic roll-out at regional level This field is not applicable in Cyprus.

Strategic roll-out at national level

Strategy, where 50/50 will be integrated	Author	•	Publication / Link
Communication Report under the UNFCCC	Environment, Ministry of Agriculture, Natural Resources and Environment	United Nations Framework Convention on Climate Change (UNFCCC), has to report regularly on climate change policies and measures. In the Seventh National	The 7 th National Communication Report has not been submitted yet. Please see attachment.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
Covenant of Mayors	The Cyprus Energy Agency has been appointed by the Local Authorities Organizations to be the Supporting Structure of the "Covenant of Mayors" in Cyprus. Thus, CEA is responsible for the design and submission of SEAPs of municipalities/communities that have joined the Covenant initiative. The 50/50 methodology has been included in the SEAP of the Municipality of Aradippou, which has already been submitted and it will be included in the SEAPs of four more municipalities (Aglantzia, Nicosia, Latsia, Engomi) that are currently under revision.	ut/signatories en.html?city id=722 4&seap (Municipality of Aradippou SEAP) The SEAPs of Aglantzia, Nicosia, Latsia and Engomi (see attachments, that were mentioned in the field "strategic roll-out, at local level") will be
FIESTA	FIESTA is a European project, funded by the Intelligent Energy Europe Programme that aims to cut families' energy consumption and related emissions by fostering improvements in their daily habits to make them more energy-efficient and particularly in their use of heating and cooling systems at home. Municipality of Larnaka participates in the project and CEA will be their consultant in order to support families to improve their use of energy. The 50/50	





methodology will be included in the strategies that CEA is going to propose as a successful way to reduce energy consumption.

Contact to local, regional, and national authorities

Local authorities/organizations

Environmental Information Centre of Larnaka

Mountainous Area

Telephone: +357 24 32 20 20

Email address: perivallontiko@anetel.com

Website: http://www.anetel.com/

Municipality of Aradippou

Telephone: +357 24 81 10 81

Email address: municipality@aradippou.org.cy

Website: http://www.aradippou.org.cy

Municipality of Aglantzia

Telephone: +35722 46 22 33

Email address: info@aglantzia.org.cy

Website: http://aglantzia.org.cy/

Municipality of Nicosia

Telephone: +357 22 79 70 00

Email address:

Municipality@nicosiamunicipality.org.cy

Website: http://www.nicosia.org.cy/en-

GB/home/

Municipality of Latsia

Telephone: +357 22 87 86 88

Email address: latsia@latsia.org.cy

Website: http://www.latsia.org.cy

Municipality of Engomi

Telephone: +357 22 45 38 00

Email address: info@engomi.org
Website: http://www.engomi.org/

National Authorities

Ministry of Education and Culture

Telephone: +35722 80 09 01

Email address: dde-eparchiako-

lef@schools.ac.cy

Website: www.moec.gov.cy

Cyprus Pedagogical Institute

Telephone: +35722 40 23 00

Email address: info@cyearn.pi.ac.cy

Website: http://www.pi.ac.cy

Main problems and difficulties

The national policies and action plans regarding Sustainable Development/Energy and Environmental Education were been determined prior the launch of EURONET 50/50 max in Cyprus. Therefore, it was not possible to roll-out the 50/50 methodology in national level.





2.15. Energy Agency of Vysocina (EAV)

Energy Agency of Vysočina is non-profit organisation, which works in the field of energy and waste management. EAV is a consultant for local and regional authorities, various institutions, organizations and entrepreneurs to improve energy efficiency in the Vysočina Region.

Institutional Observer of the project

Name of the organization: Municipality Mrákotín

Level: local level

Kind of organization: Municipality (more than 900 inhabitants)





Description: Municipality Mrákotín is a member of Microregion Telčsko and the mayor of Municipality Mrákotín is a vice-chairman of this microregion. Microregion Telčsko connect 48 municipalities, which cooperate in the field of energy and waste management.

Value for the project:

Municipality Mrákotín decided to follow project EURONET 50/50 M!X because the project helps to raise people's awareness in the field of energy and through activities of Microregion Telčsko can promote the 50/50 concept in many public buildings. Another important thing is that the project helps to aim at energy efficient public buildings, which is important for municipality Mrákotín and microregion Telčsko.

Strategic roll-out at local level

Regarding the strategic roll out at local level, we have just a few SEAPs for Czech Republic and no for Vysočina region. Therefore, there is a problem to integrate Euronet methodology in something. This is the reason why we were not successful in integrating 50/50 at local level.

School Strategies

Strategy	Author	Short description	Publication / Link
School	Ing. Marie	In Primary and Secondary school Čáslavice were	Thematic plan for 8th grade
education	Kružíková	created a thematic plans for 8th and 9th grades	(environmental education)
program		within school education program involving	and Thematic plan for 9th
		energy issues and Euronet 50/50 MAX materials	grade, see attachment

Strategic roll-out at regional level

We were not successful in enforcing the 50/50 methodology in different strategic documents on local and regional level. Nevertheless we are going to participate in the commenting process, which will begin after publication of the draft of Territorial Energy Concept of Vysočina Region (during 2016), where we will propose a 50/50 methodology as a non-investment measure for public building. We





prepared an article about Euronet 50/50 MAX idea. See attachment Strategic roll-out at regional level

Strategic roll-out at national level

We tried to contact and inform authorities on national level about 50/50 methodology, but unfortunately, we have no power to enforce the 50/50 methodology into strategy documents on national level.

Cooperation with EU-level initiatives or networks

Network, initiative	Description of the cooperation	Publication / Link
EXEM -ECVET Profile for European Expert in Energy Management	EXEM project aims at standardization of occupations working in the field and of energy management procedures can contribute to making better and more rational use of energy and managing our energy use more. EXEM project is EU project within Lifelong Learning Programme.	50/50 concept was described in czech version of Blueprint of training course for Energy Experts. See attachment.
SUSREG (Stimulating Sustainable Regional Development by means of a Structured Process Approach)	SUSREG is an European project within European program Intelligent Energy Europe. It is aiming to stimulate the use of sustainable energy resources and energy efficient methods in urban and regional planning by improving knowledge, skills and attitudes of professional planners at regional authorities, local organisations and national associations.	50/50 methodology was presented and promoted at a project meeting. Unfortunately, we do not have any proof of the cooperation with SUSREG. It is not counted as a cooperation, but we thought it is worth to mention it.

Contact to local, regional, and national authorities

Contact on local and regional level is Municipality Mrákotín, which is in touch with Microregion Telčsko. Representative of municipality Mrákotín is a vicechairman of Microregion Telčsko, which includes nearly 50 municipalities. Contacts on EU level during the project were SUSREG project. Another contact on EU level is EXEM project. Description of the projects you can see in chapter Cooperation with EU-level initiatives or networks.

Main problems and difficulties

Regarding the strategic roll out, we have no SEAPs for Czech Republic and Vysočina region either. Therefore, there is a problem to integrate Euronet in something, but we are going to comment a Territorial Energy Concept, where the 50/50 concept we want to involved and promote. Territorial Energy Concept is created once in 25 years and updated once in 5 years (Act No. 406/2000 Coll.) the same for so there are not many opportunities to involve the methodology in this kind of strategic document.





3. The database at EU level

In the EURONET 50/50 MAX database with contacts at EU level, there are **67 contacts**. All of these contacts received the four project newsletters. One of these contacts sent us a contribution for newsletter No 3 (IEE project COOPENERGY).

Above that, some partners used their own contacts at EU level to promote a strategic roll-out of the 50/50 concept, e.g. PNEC used 140 contacts of its "EU contact data base" including addresses of all organisations and institutions from other EU countries PNEC cooperating with.

4. Strategic roll-out beyond partner countries

There were two dissemination events of the 50/50 initiative in Brussels, where relevant authorities, stakeholders and people from the EU were invited. At the beginning of the project, PNEC organized a public event with the title "Incentives and empowering users to save energy in schools and public buildings — Successful collaboration of schools and local governments to achieve the Covenant of Mayors objectives through the 50/50 concept". The aims of this public event were to highlight the results from the first Euronet 50/50 project, to present some 50/50 relevant experiences (for example Hamburg), to discuss the new actions to undertake and to disseminate and extend 50/50 Network. At the end of the project, the final conference in Brussels focused on strategy of disseminating 50/50. With more than 50 attendants, this event was very successful.

In the framework of EURONET 50/50 MAX, we established **contacts with 41 networks or initiatives** around Europe that are also dealing with energy efficiency and/or with environmental education, to have a wider dissemination of 50/50.

EURONET 50/50 MAX cooperated in many different ways:

- Euronet 50/50 max was chosen as a good practise by other projects (e.g. SERPENTE, Eurocities, Energy Efficiency in municipalities)
- Presentations in the framework of other EU-projects (e.g. SERPENTE, RENERGY, ZagEE, EleCTra, SUSREG)
- Implementation of 50/50 in schools or other public buildings (e.g. Bordeaux city council)
- Videoconferences and webinars (e.g. COOPENERGY, Mayors In Action)
- Development of specific documents to spread the idea of 50/50 in a network (Eco Schools)
- Speeches/workshops at conferences or events (e.g. Behave Energy Conference 2014, SEAP-PLUS)
- Workshops for (science) teachers and energy experts (e.g. Goethe Institut Kiew)
- Translation to other languages (Energy saving at Schools in Romania)
- Articles and links on websites (e.g. EUROCITIES, SmartSpaces, FIESTA Project)
- Preparation of training materials (e.g. IUSES)
- Organization of a visit of 50/50 schools with a 50/50 presentation of the pupils (e.g. 100% RES communities)
- Including the 50/50 methodology in other strategies (e.g FIESTA)
- Description of the 50/50 concept in a training course for Energy Experts (EXEM –ECVET)





Two of the 29 **project observers** are European networks, which helped to spread the idea of 50/50 to other European countries. For example, **SERN** is a bilateral network of municipalities from Italy and Sweden. It is the main network in Europe fostering relations in a multilevel perspective between Northern and Southern Europe. They started to apply the 50/50 concept in 18 schools from 12 municipalities (10 in Italy and 8 in Sweden). **Europe Direct Huelva** is the European Information Centre of Diputación de Huelva and part of the Europe Direct Information Network, created by the European Commission in 2005. It consists of 498 centres across 27 countries and serves as a window to Europe through which you can show all the progress and activities within the project to other stakeholders at European level.

5. The Covenant of Mayors

The following result shows that the 50/50 concept totally fits with the aims of the Covenant of Mayors. 67% of all 155 strategies on local level, which included the 50/50 concept, are Sustainable Energy Action Plans from signatories of the Covenant of Mayors.

33% are other local strategies, like Low-Emission Development Plans (Poland), Climate Programmes (Finland), Climate Protection Programmes (Germany), annual Energy Efficiency Plans (Croatia), Energy Saving programmes (Italy) etc. or local 50/50 projects, where the municipalities implement the 50/50 methodology in their area

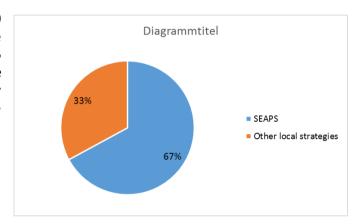


Figure 2: Strategies on local level (proportion of SEAPs)

On the Covenant of Mayors website (http://www.covenantofmayors.eu) you can find many posts about EURONET 50/50 MAX. The project was presented several times in the newsletter and the news section on the website. There are three "Benchmarks of Exellence" about the 50/50 concept on the website, and one more as benchmarks of a signatory. Furthermore, the CoM website published the case study "50/50 schools - Unlocking energy savings in the schools of Weiz, Austria" (http://www.covenantofmayors.eu/Case-Studies,1394.html) with a description of the project EURONET 50/50 MAX and a link to the project website.

On the 10th May 2016, there was the Covenant of Mayors Webinar "Improving Energy Efficiency in Buildings: Challenges & opportunities in financing invest", where the Euronet project partner PNEC talked about EURONET 50/50 MAX (What are the suggestions of the EURONET 50/50 project to enhance the energy performance of school buildings?).





6. SUCCESS STORIES ON STRATEGIC ROLL-OUT

6.1. Success stories of Barcelona Provincial Council (DIBA)

AT LOCAL-REGIONAL LEVEL

PLA D'ACCIÓ

Integrating 50/50 in the SEAPs of the province of Barcelona and in other regions

During the project development, DIBA has promoted the inclusion of 50/50 as an action of the municipal Sustainable Energy Action Plans (SEAPs). This has been done through encouraging 50/50 among the municipalities of Barcelona province that get involved in the Covenant of Mayors. As a result of that, 50/50 has been included in 82 SEAPs.

Observers of the project have replicated this initiative. In this regard, Gironès County Council has also encouraged the inclusion of 50/50 as an action of the SEAPs in the municipalities engaged in 50/50 action. At the moment there are 5 municipalities that have already integrated 50/50 in their SEAPs: Bordils, Cervià de Ter, Flaçà, Llagostera and Sarrià de Ter.

Codi	Títol	
A18/B11/6	Implantació de mesures tipus 50/50	
50/50 (win-win) measures in municip	al buildings and facilities	
Àrea d'Intervenció: Edifici	municipals	Mecanisme d'acció: Edificis
Canvi d'hàbits		Sensibilització/Formació
d'incentius econòmics vei d'eficiencia energétiques : 50% es tradueix en un esta El resultat és que totes le disminueix la seva despess l'estalvi energètic assolit. d'equipaments municipals L'ajuntament promourà la municipals, prioritzant les manerea més important a	s l'estalvi energètic, així e plicades retorna a l'equipa ivi de l'ajuntament en factu- to parts guanyen: l'equipam econòmica i la societat per l'eixit aconseguit a les esco l'inclús no municipals. i implantació d'aquest mè escoles que, a més de la sev poder treure un profit per poder treure un profit per poder treure un profit per possibilitation de la sev poder treure un profit per poder treure un profit per poder p	gètic. Aquesta metodologia es basa en la creaci 50% de l'estabil econòmic fruit de les mesur- ment en forma de transferència econòmica i l'altr res
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Masquefa II quan tingui e extensiva a altres equipar poliesportiu, la sala polival Es considera un estalvi m moment, en aquesta acció El cost d'inversió és de 3.5 Per obtenir més informa www.euronet50-50.eu Expectativa de reducció d CO _{Jes} (t/any)	seu emplaçament definitiva interest que sigui utilizats ent o alguns dels locals d'er g d'un 10% anual del con omnés s'ha quantificat l'es 00¢ que inclou l'auditoria, nió es pot consultar la següe e Expectativa d'estal energètic (kWh/am entre que que l'estativa d'estal energètic (kWh/am entre que l'estativa d'estativa d'e	J. Segons l'èxit de la mesura es pot plantejar fer- de forma habitual per les mateixes entitats com titats. um encretic per cada equipament municipal; c abi en base al consum de les dues escoles. nonitorització i formació del personal. nt adreça:
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Example of 50/50 action included in the SEAPs of Masquefa (left) and Llagostera (right)





Including 50/50 in the lifelong training for teachers in the province of Barcelona

An agreement was reached with the Education Department of the Catalan Government to include 50/50 in the lifelong training addressed to teachers in Catalonia. As a result of that, two training courses were developed during 2014/2015 in two different counties:

- A 15h. Training in Maresme region with 12 participants.
- A 15h. Training in Baix Llobregat region with 17 participants.

Technicians from DIBA developed the contents and carried out lessons for the training. Teachers attending the training had to develop a planning about 50/50 implementation in their schools during the following 2 school years. The Educational Department of the Catalan Government delivered diplomas to the teachers that completed the training.



Teachers' training session on 50/50 in St. Boi de Llobregat

AT NATIONAL LEVEL

Integrating 50/50 in the Sustainable Energy Strategy of Bizkaia province

Bizkaia Provincial Council, in the Basque Country, as an observer of the project has been promoting 50/50 in its territory. The Sustainable Energy Strategy of the province includes energy as a core element of the Education Action Plan for Sustainability of Bizkaia. Both documents (the Sustainable Energy Strategy and the Education Action Plan for Sustainability) include Euronet 50/50 max as an example to promote energy savings and education in public buildings. One of the evaluation indicators of the Education Action Plan for Sustainability is the number of buildings engaged in Euronet 50/50 max network and the number of municipalities involved. The Environmental Department is in charge of extending 50/50 network in the province.

More information about 50/50 in Bizkaia province available at: http://www.bizkaia21.eus/interior.asp?idpagina=152







Sustainable Energy Strategy of the province includes energy as a core element of the Education Action Plan for Sustainability of Bizkaia.

http://www.bizkaia21.eus/interior.asp?idpagina=149&idioma=ca

AT EUROPEAN LEVEL

Extending 50/50 across Swedish and Italian municipalities with SERN

SERN is a bilateral network of municipalities from Italy and Sweden that has been implementing 50/50 concept since 2015. They have engaged as an observer in the Euronet 50/50 max, using the materials and knowledge developed by the project. Nowadays they have 18 schools from 12 municipalities that are implementing 50/50 methodology (10 in Italy and 8 in Sweden). They have developed a very visual and dynamic webpage (http://50-50.sern.eu/) where the schools engaged explain their 50/50





experience and documents. This webpage shows that they already managed to save 150.000kW/h during 2015.



Webpage of 50/50 Project developed by SERN. http://50-50.sern.eu/

6.2. <u>Success stories of Association of Municipalities Polish</u> Network "Energy-Cities" (PNEC)

SUCCESS STORY ON THE STRATEGIC ROLL-OUT

Municipality: Słupsk

Municipality of Słupsk is located in the northern part of Poland, in the Pomorskie Voivodeship. In October 2015 the municipality finalized and formally adopted its Sustainable Energy Action Plan (SEAP) aiming at reducing energy consumption and CO_2 emission from its territory. Two important priorities established in the SEAP are: (1) increasing energy awareness of the citizens and local stakeholders and (2) reducing energy consumption in municipality's own buildings (also to give good example to the others).

Encouraged by the success of the EURONET 50/50 MAX project and after consultation with PNEC, who promised its support, the municipality decided to join the 50/50 Network and implement the 50/50 methodology in its schools in order to contribute to the achievement of the two above-mentioned goals. On the 29th of October 2015 Krystyna Danilecka-Wojewódzka, Deputy Mayor of Słupsk, signed the official letter of intent, in which the municipality committed to launch the 50/50 scheme in 8 schools - 5 primary schools and 3 secondary schools. The municipality committed to support engaged schools in implementation of the 50/50 concept and to return them 50% of the financial savings achieved.

Following this formal declaration, the municipality established communication with the headmasters and teachers of the 8 schools and invited them to a half-day training & information session organised





together by Słupsk officers and PNEC, Polish partner of the EURONET 50/50 MAX project. The training & information session took place on the 24th of November 2015 in the building of the city hall and was officially opened by the Mayor of Słupsk, Robert Biedroń, who emphasised on the importance of raising energy awareness of the youngest citizens.



Photo 1: Robert Biedroń, Mayor of Słupsk, opens the training & information session for schools



Photo 2: Headmasters and teachers participating in the session

During the session not only the teachers, but also the municipal officers who will coordinate the 50/50 project, learned more about the 50/50 methodology and practical aspects of its implementation. Moreover, representatives of PNEC thoroughly discussed the methodology of calculating energy and financial savings, explained how the on-line calculation tool works and guided the participants through the different materials and tools available on the EURONET 50/50 website. All participating schools received hard copies of the 50/50 guidebooks. Summary of the event in Polish may be found at: http://www.euronet50-50max.eu/pl/come-to-our-50-50-events/past-events/190-warsztaty-dla-slupskich-szkol.

Right after the event, further work to launch practical implementation of the 50/50 project started. The municipality, supported by PNEC, signed cooperation agreements with all schools involved, specifying tasks of both parties. They also purchased some measuring equipment for the future energy teams (digital thermometer, luxmeter and energy meter) and started collecting data on the energy consumption at schools (all schools use district heating and electricity). The schools selected teachers, who will coordinate the project and lead energy teams. They all took part in a technical meeting, which was organised in the city hall in February 2016. PNEC, on the other hand, provided on-the-job consultations and created new schools' accounts in the on-line energy saving calculation tool.

By now all preparatory activities have been completed. It is planned that energy teams will be created in respective schools in September 2016 and that they will start practical work on achieving energy savings right away.

Attachments/evidences:

- Letter of intent concerning 50/50 implementation signed by Słupsk
- Attendance list from the training & information session for schools
- Cooperation agreements between the Municipality of Słupsk and involved schools
- Invoice for the measuring equipment that was purchased by the Municipality of Słupsk for the participating schools





6.3. <u>Success stories of Energy Agency of Savinjska, Šaleška and</u> Koroška Region (KSSENA)

STRATEGIC ROLL-OUT ON LOCAL LEVEL

Energy team of Succursal school Šmartno ob Dreti influencing inclusion of 50/50 in SEAP of Municipality of Nazarje

In May 2016 Energy team of Succursal school Šmartno ob Dreti participated on the conference about energy efficiency in buildings that was organized within Energy days of Municipality of Nazarje. The conference was attended by stakeholders from the field of energy efficiency and most importantly by municipality authorities.

Energy team used the opportunity to promote Euronet 50/50 MAX project with their PPT presentation thus contributing to strategic roll-out objectives of the project. Since during that time SEAP of Municipality of Nazarje was in preparation, pupils of Succursal school Šmartno ob Dreti played a vital roll on influencing local authorities which ultimately lead to inclusion of 50/50 concept in SEAP of Nazarje.

Besides Municipality of Nazarje 50/50 was included in 6 other SEAPs.





STRATEGIC ROLL-OUT ON EU LEVEL

Intertwinning with EU networks and initiatives

On EU level we managed to intertwinne Euronet 50/50 MAX with several different EU networks and iniciatives. On 13th of January Euronet 50/50 MAX was presented on the workshop "Financing EE measures in local communities", which was organized within project **Energy Efficiency in municipalities** in Ukraine. Euronet was presented as an example of best practice for municipal EE





funding and gained a lot of interest from Ukrainian local representatives. Euronet 50/50 MAX was also presented on **Mobility week 2015** in three different cities in Slovenija - Velenje, Celje and Slovenij Gradec! Euronet 50/50 MAX was interconnected in intertwinned with other interesting activities and brought together a diverse group of visitors. Euronet 50/50 MAX was also successfully intertwinned with yet another EU iniciative – **Eco School**, since Primary School Mihe Pintarja Toleda specified in its Annual School Action Plan 2014/2015 that one of their main goals is to maximize the impact of both initiatives by combining its goals and activities.





6.4. Success stories of Kaunas Regional Energy Agency (KREA)

AT NATIONAL LEVEL

Support for EURONET 50/50 MAX project from Ministry of Energy of Republic of Lithuania

During the implementation of EURONET 50/50 MAX in Lithuania strategic roll-out actions were taken. Ministry of Energy of Republic of Lithuania was informed about project methodology and its promising energy savings results. Ministry has signed letter of intention and in this way confirmed support for the project conception. More, Ministry also estimates possibility to include 50/50 methodology in to its legal documents (strategies, plans, laws, etc.). This is important step to make project energy saving idea long lasting in Lithuania and also make its implementation wider and easier.





6.5. Success stories of City of Zagreb (ZAGREB)

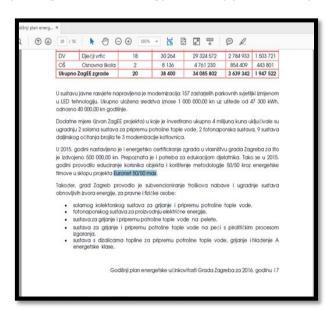
AT LOCAL-REGIONAL LEVEL

Integrating 50/50 in the City of Zagreb annual energy efficiency plan for the year 2016.

The City of Zagreb annual energy efficiency plan for the year 2016. is a planning document for City of Zagreb energy efficiency for the duration of one year which establishes the implementation of policies for the improvement of energy efficiency.

The production and implementation of the annual plan is also an obligation in keeping with the Energy efficiency act (Official Gazette 127/2014). The annual plan is adopted by the City's executive body. The Energy efficiency Act also stipulates that the plans are given by the National Energy Efficiency Authority. The Annual plan comprises two main segments: analysis of measures implemented for the previous year and the calculation and proposition of activities for the current year in the aim of reaching the planned savings and the realization of the activities in keeping with the current strategic guidelines and documents of the City of Zagreb.

The 50/50 measure has been recognized as successful (based on the savings achieved) and has thus been included in the <u>City of Zagreb annual energy efficiency plan for the year 2016.</u>

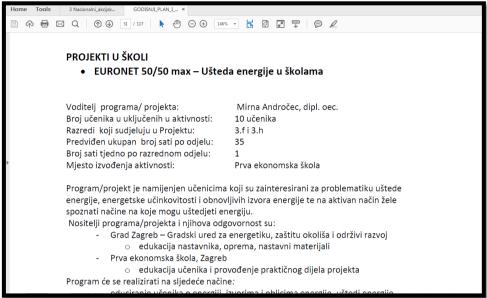


School Strategies

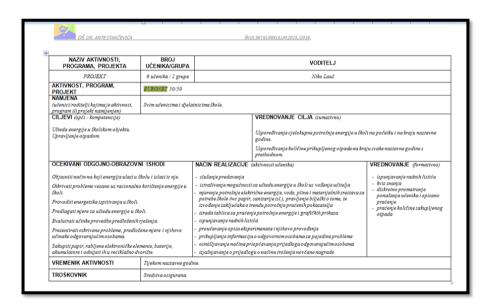
The schools that have participated in the project have recognized it as a valuable addition to their curricula and have thus decided to include it in their curricula and annual plan. This is an encouraging sign, showing that the schools shall continue working on the project activities, thereby educating not only new pupils, but teachers as well.







ex. Annual plan and program for the First economic school Zagreb



ex. Curriculum, Primary school Ante Starčević

AT REGIONAL LEVEL

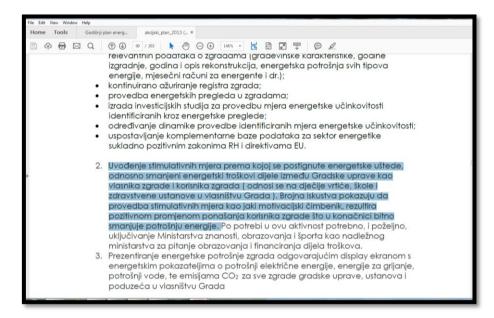
The Euronet50/50max' main principle of educating children on the issues of energy is not a novelty in Croatia. The City of Zagreb Sustainable energy action plan as well as the Third national energy efficiency action plan for 2014-2016., documents that provide guidelines on many issues, also include the issue of energy efficiency and education.

For example, p. 79 of the City of Zagreb Sustainable energy action plan includes a subsection 7.3.3 Measures for the buildings of the City Government, institutions and companies owned by the City of





Zagreb on the stimulating measures for energy savings which include the stimulative measures for buildings.



AT EUROPEAN LEVEL

Cooperation with other EU projects and networks

Networks

EUROCITIES - as a long-existing EU network, the Eurocities has been very helpful in spreading word about the project EURONET50/50max. After the first year of implementation, the said network has published an article about the implementation of the project measures in Zagreb, which has surely given a boost to our students.







Also, the project has realized ties with the IEE project Mayors in Action and has been disseminated internationally during the webinar Coaching schemes for Local Governments, held on March 5, 2015. The project has also been disseminated on February 26, 2015 at the meeting for the IEE project ZagEE – Zagreb – Energy Efficient City. The project has also been presented on the seminar of the project EleCTra – Electric City Transport.

EU projects



Project ZagEE



Project Mayors in Action







Project EleCTra

6.6. Success stories of Riga Managers School (RMS)

LOCAL-REGIONAL LEVEL

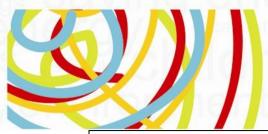
Integrating 50/50 in the SEAPs of the city Liepaja

1. The introduction of the 50/50 method in Liepaja was successful. Thirteen schools and three kindergartens have begun work in this direction, starting with the heating season in 2014 and continued to fly in 2015.

Liepaja City Council based on the experience of implementing a technique in 2014 and on the basis of its proposals for saving resources, has developed a guidance document for the period 2015 - 2019 years (Nolikums from 2015. 4.01) to encourage schools and public buildings to save energy. As a basic principle in a document called Principles technique 50/50. To increase the availability of techniques Municipality expressed his opinion about the desired change in the calculation of the energy-saving system.

In order to ensure greater sustainability of the 50/50 methodology Energy saving calculation tool, finding on the central server, in the future must be complemented with Energy saving calculation program to transferred to municipalities and for offline work. This will increase the number of participants.

Information about the principles of work in accordance to this document was presented in March 2015, during a seminar for directors and heads of economic departments of schools and heads of the three kindergartens of the city of Liepaja. Responsible executor of the program 50/50 appointed the Department of Education of the municipality.







Seminar at the Department of Education of the Liepaja municipality 20/03/2015



Nolikums

Par pašvaldības iestāžu valdījumā pie centralizētās siltumapgādes sistēmas pieslēgto ēku apkures izdevumu aprēķinu un apkures ietaupījuma sadalījumu, iekļaujot metodikas EURONET50/50max izmantošanu

(Papildinājums no 2015. gada janvāra mēneša, darbības periodam 2015. - 2019. gads).

1.Vispārīgie noteikumi

- 1.1. Nolikums izstrádáts ar mérķi veicināt siltumenerģijas ietaupījumu pašvaldības iestāžu apsaimniekotajās ēkās, samazināt ogiskābās gāzes izmešu apjomu atmosfērā, motivēt ēku apsaimniekoslanā iesaistītos darbiniekus, paaugstināt sabiedrības izpratnī par enerģijas taupīšanu veicināšanai, sasniegt "Pilsētu mēru paktā" (Covenant of Mayors) nospraustos mērķus.
- 1.2. Nolikums paredz kārtību, kādā tiek aprēķināts siltumenerģijas ietaupījums un tā sadalījumu budžeta nākamalā sadā.
- 1.3. Nolikums paredz kártíbu, kádá tiek aprékináts pašvaldíbas iestážu valdíjumá pie centralizétás siltumapgádes sistémas pieslégto esosás ékas vai vairáku éku, kas pieslégtas vienam siltummezglam (turpmák éka) siltumenergijas patérinš, sastádot budžetu nákamajam gadam.
- 1.4. Nolikums ir saistošs no siltumenerģijas apmaksai no pašvaldības budžeta finansētām iestādēm
- 1.5. Siltumenerģijas patēriņa, tarifa prognozi un apkures izmaksu ietaupījuma aprēķinu un ieteikumus nākamajam budžeta gadam izstrādā pašvaldības izpilddirektora nozīmēta persona.
- 1.6. Sasniedzamais ietaupijums ir atkarigs, līdztekus tehniskiem faktoriem, lielā mērā no ēkas lietotāju uzvecilības pareizi un saudzīgi trētēt enerģētiskos resursus. Liepājas izgitības pārvalde 2015.gadā nodrodinājai visām Liepājais solokai niepājei ipearļūtise un izmēģināt intelligientās enerģijas projekts EURONETSO/Somax rekomendācijas un mācību materiālus par ēkas lietotāju: apmekētāju, skolotāju, skolenu iesaistīšanu enerģijas ekonomijas darbībā. Lielākās ekonomijas rezultātu sasniegāanal tiek rekomendēts aktīvi paplašināt projekta EURONETSO/Somax metobu izmantošanu.

2. Siltumenerģijas patēriņa noteikšanas kārtība

2.1. Siltumenerģijas patēriņu nākamajam kalendārajam gadam nosaka, ņemot vērā pēdējā pilnā kalendarā gadā iegūtos rādītājus un koriģē tos atbilstoši Ministru kabineta 2009.gada 13.janvāra noteikumiem Nr.39 "Ekas energoefektivitātes aprēķina metode". Enerģijas patēriņa koriģēšanai atbilstoši laikapstākljem izmanto Latvijas būvnormatīva LBN 003-01 "Būvklimatologija" (apstprināts ar Ministru kabineta 2001.gada 23.augusta noteikumiem Nr.376 "Noteikumi par Latvijas

būvnormatīvu LBN 003-01 "Būvklimatoloģija"") 7.tabulā noteiktās apkures perioda ilguma un vidējās gaisa temperatūras vērtības un koriģē, atkarībā no ēkā vai tās tehniskajās sistēmās veiktajām izmaiņām.

2.3. Siltumenerģijas patēriņu izsaka MWh un reizina ar tarifa prognozi nākamajam kalendārajam gadam.

3. Apkures izmaksu ietaupījuma sadalījuma aprēķins.

3.1. Apkures izmaksu ietaupījumu ēkai aprēķina, kā vidējā siltumenerģijas patērina 2009-2012.gadam (ja dati ir pieejamī) un pēdējā pilnā kalendārā gada patēriņa starpību latos pēc attiecigā periodā aktuālajiem siltumenerģijas tarifu datiem. Gadījumā, ja ēka minētajā periodā nav bijusi apkurināta, vai mainīts apkure veids, par izelas datiem pienem pieejamos datus. veicto to validāriju in kārbauvili inkārbauvili na piecijamos datus. veicto to validāriju inkārbauvili na piecijamos datus. veicto to validāriju inkārbauvili na piecijamos datus. veicto to validāriju inkārbauvili na piecijamos datus. Veice to to validāriju inkārbauvili na piecijamos datus veida piecijamos datus veida piecijamos datus veida piecijamos datus piecijamos piecijamos piecijamos datus piec

- 3.2. Apkures izmaksu ietaupījumu ēkām sadala sekojoši:
 - pirms renovācijas izmantotām un no ārpuses renovētām ēkām- 50% apmērā;
 - nerenovētām, vēsturiskām (no ārpuses nesiltinātām) ēkām, pirms renovācijas neizmantotām, ēkām, kurām mainīts apkures veids- 100% apmērā.
- 3.3. Izmaksu ietaupījumu ēkām apstiprina iestādes vadītājs un to var izmantot sekojoši:
 - Iidz 15% no ékâm apstiprinātās summas- energoefektivitātes pasākumos iesaistīto personu motivācijai;
 - 3.3.2. atlikušos līdzekļus izmanto jebkuriem no sekojošiem mērķiem:
 - remontdarbu veikšanai ēkās;
 - ēku aprīkojuma un inventāra iegādei;
 - mácību līdzekļu iegādei;
 - ēkām piesaistīto zemesgabalu labiekārtošanai;
 - izglītošanas pasākumu par energoefektivitātes uzlabošanu ēkās organizēšanai.

Nolikums tika izmantots kā vadošais dokuments laika periodā 2014. un 2015.gads projekta EURONET50/50 max metodikas ieviešanas procesā. Balstoties uz sasniegto ekonomijas rezultātu dinamiku, tiks pieņemts lēmums par Nolikuma precizējumiem nākamiem atskaites periodiem.

Izpilddirektora vietnieks īpašumu jautājumos

Mārtiņš Tidens



Liepājā, 2015.gada 4.janvāris





2. In the four schools of city Jurmala implementation of the methodology was in 2014.

Successful in saving resources were two schools. The reason for the failure of the other two schools was associated with errors in the process of renovation of these schools.

The City praised technique as a progressive and recommended in the protocol Nr. 273 From 07/29/2015 to widespread use in all city schools.

The final sentence of the said Protocol:

The project team of Riga Managers School representative, Sloka Primary School, Vaivari elementary school, Pumpury and Ķemeri secondary schools, as well Jurmala City Council the Development Bureau of Strategic and Business Planning Division.

The project was focused on the utilization of resources and the harmful environmental effects. Activities based on students' permanent employment and capacity building involved in the project in Jurmala city educational institutions - Sloka Primary School, Vaivari Elementary School, Kemeri Secondary School and Bud High School, educating about energy careful use has saved thermal power project has been useful and similar projects are needed involving new electricity, water, waste removal costs.

The project has been a Useful and Similar Projects Requires the Involvement of New Educational Institutions.

6.7. Success stories of Florentine Energy Agency (AFE)

AT LOCAL-REGIONAL LEVEL

Integrating 50/50 in San Marcellino swimming pool

During the project development AFE has promoted 50/50 project implementation through education of staff and visitors of San Marcellino swimming pool, an important public sport site in the south area af Florence city, about a carefull use of the structure as much as possible to reduce fuel consumption. Then choosing and making installation to the municipality of Florence devices to control power consumption of the sports site.

This initiative has been replicated by observers of the project in other sport facilities. In particular, Florence municipality has also encouraged the inclusion of 50/50 as an action in other swimming structures.

The San Marcellino sports facility of 5000 square meters divided in indoor swimming pool, locker rooms with showers, an indoor gym with volleyball/basketball court. The swimming pool measure 25×16 meters, used throughout the week and all day till late in the evening. This is a very old strutturra with the greatest heat loss.

The project will educate staff and visitors in a more careful use of the structure as much as possible to reduce fuel consumption.

Energy sources used in building: *Natural gas boiler with air heaters distribution.*

Total area (in m2): 5.000 mg





6.8. <u>Success stories of Climate Alliance – Austria (CAA)</u>

AT LOCAL LEVEL

Climate Alliance Austria reached the integration of the 50/50 concept in one local strategy. In Austria there are only 13 signatories of the CoM. Most of the SEAPs have been submitted. Therefore it was hard to find strategies on local level, but the Municipality of Weiz is preparing the SEAP for the CoM and will include the 50/50 concept.

CAA was more successful to encourage municipalities to start 50/50 projects.

Three Austrian cities (Wiener Neustadt, Graz and Bregenz) are implementing or will implement 50/50 in their schools. The City of Wiener Neustadt took part in the project EURONET 50/50 MAX and currently plans a 50/50 project in all compulsory schools in the next school year. The City of Bregenz started implementing 50/50 in one of their primary schools since January 2016 and was supported by CAA. The City of Graz plans to implement 50/50 in 19 schools in cooperation with CAA in the school year 2016/2017.



Description of the 50/50 project of the City of Bregens

AT REGIONAL LEVEL

Climate and Energy Model Regions: An Austrian blueprint for a successful bottom-up approach in the field of climate change and energy

Climate Alliance Austria was very successful with strategic roll-out at regional level, because in Austria we have the very promising "Climate and Energy Model Regions".

The Climate and Energy Fund was founded in 2007 by the Austrian Federal Government to develop new, innovative ways of climate protection and sustainable development. One of the most successful Austrian initiatives of the recent years is the programme "Climate and Energy Model Regions". With this initiative, the Climate and Energy Fund supports regions that have made "becoming independent of fossil fuels" their prime target.

Climate and Energy Model Regions are key instruments to reach the Austrian Government's target of becoming energy self-sufficient by 2050. Over the course of a year, the amount of renewable energy produced shall equal the annual energy consumption. A large network of well-established, interlinked and coordinated model regions is a suitable approach for this target.

The "Climate and Energy - model region Styrian Nature Park Eisenwurzen" will integrate 50/50 in the revision of the implementation concept and the "Climate and Energy - model region Energieregion Weiz – Gleisdorf" will integrate it in the implementation concept of the model region.

It is very likely that other model regions will follow!





Strategic roll-out in the Austrian province of Styria

The Styrian Provincial Government plans to integrate the 50/50 concept in the "E 25 Energy Strategy", which is currently under revision. You can already find the 50/50 concept on the website: http://www.energie.steiermark.at/cms/beitrag/11970509/48009231/



With the project "50/50 - Energiesparen an Steirischen Schulen (Energy saving at schools)", the Government wants to spread the idea of 50/50 in Styria. So far 26 Styrian schools participated and every second school year 13 schools will follow. The main objective of the project is to reduce the energy consumption of the schools through behavioural changes. Part of the project is a competition between the schools.



The winner of the 50/50 competition 2015, the Secondary school Gerlitz (Hartberg), was awarded at a festive event.





6.9. Success stories of Province of Huelva (DIHU)

AT LOCAL-REGIONAL LEVEL

An agreement was reached with the Education Department of the University of Huelva.

As a result of that the Euronet 50/50 max methodology and materials have been presented to the students in current course and will be included in oficial contents for the next course.

The 50/50 methodology has been presented and included as a tool in the programmes of three educational specialities in three different sessions in which participate more than 100 students:

- Master on Teaching of Compulsory Secondary Education, Vocational Training and Language Teaching.
- Degree on Primary Teacher Education and Teaching of Natural Sciences
- Master on Environmental Education (On-line session)



University of Huelva. Student's training session on the 50/50 methodology to be applied in their future careers.

AT NATIONAL LEVEL

Social and Environmentally Sustainable Municipalities Initiative

The 50/50 methodology has been included in a <u>manifesto</u> created by the Renewable Energy Foundation and the Platform for the New Energy Model in Spain.

https://municipiossostenibles.wordpress.com/manifiesto/

The website called "Social and environmentally sustainable Municipalities" has a link to our project for signatories municipalities can download all the methodology and can apply it in their local policies. This was an initiative of some citizen groups, active in the field of energy, aimed at the transition to a new sustainable and socially fair energy model.

They have written this manifesto, in which the commitment to work in the town for a new energy model and undertake specific actions that can be developed over the next four years from the local administration is expressed. The manifest has been signed by the candidates and parties contesting 2015 municipal elections in Spain as a commitment to the citizens.





On a <u>map sited in the web</u> it can be seen that 10 parties national and regional level signed the manifesto so far as well as more than 70 candidates of that municipalities.

One of the measures of such document (number 6) states:

"To implement energy efficiency programs in schools, as the project 50/50, proven tool for saving and environmental education, consisting of return 50% of the savings to school, through direct subsidy and reinvesting the other half in new saving, efficiency and renewables measures in the same school, with the participation in the decision of the municipal corporation".

As a result of this, many other municipalities of all Spain have become interested in the implementation of the 50/50 methodology. After contacting them and explain the project methodology, it has been implemented successfully in 10 municipalities so far: Málaga city, Alhaurín de la Torre, Albacete, Jerez de la Frontera, Bollullos del Condado, Mairena del Aljarafe, Villanueca del Trabuco, Fuenmayor, Logroño and Bilbao city.



Malaga city implement the 50/50 concept in 4 schools by 2016, 10 schools by 2017 and 20 schools by 2018.

More than 70 cities signed the Manifesto that included the 50/50 methodology







Helianto Colective (Asociation)

Based in the Euronet 50/50 max methodology, this association developed a programme called "Ilumina Tudela" to implement the 50/50 methodology in several municipalities of Navarre with a private iniciative linked to achieved energy savings by this association.



Website of the iniciative "¡Ilumina Tudela! " by Helianto





6.10. Success stories of Cyprus Energy Agency (CEA)

AT LOCAL LEVEL

Integration of 50/50 methodology to local SEAPs

Cyprus Energy Agency has been appointed by the Local Authorities Organizations to be the Supporting Structure of the "Covenant of Mayors" in Cyprus. Thus, CEA is responsible for the design and submission of SEAPs of municipalities/communities that have joined the Covenant initiative. The 50/50 methodology has been included in five SEAPs, which were designed by CEA (SEAPs of the Municipality of Aradippou, Aglantzia, Nicosia, Latsia and Engomi) which have already been submitted.



Example of 50/50 action included in the SEAP of Aradippou Municipality

AT NATIONAL LEVEL

Intention to roll-out 50/50 methodology to all primary schools of Cyprus

After the completion of the EURONET 50/50 max in Cyprus and the experience gained, CEA has contacted Pedagogical Institute of Cyprus, one of the project's observers, in order to discuss more intensively a possible roll-out of EURONET 50/50 max to all primary schools of Cyprus. Pedagogical Institute has corresponded positively, since EURONET 50/50 max is in accordance with the aims and objectives of the National Curriculum for Environmental Education/Education of Sustainable Development and 50/50 methodology could be integrated to the Sustainable-Environmental Education Strategy of the schools. Thus, CEA is launching a discussion with the Ministry of Education in order for a national roll-out of 50/50 methodology to primary schools, including the delivery to each school of all the necessary educational material produced within the project (e.g. e-pack), measurement instruments and other information material.





6.11. Success stories of Energy Agency of Vysocina (EAV)

Connection of Euronet 50/50 MAX idea with Eco-Schools project in the school.

In general, EAV involved many Eco-schools in the project, and during the implementation we found out, that activities has similar topics, so it is great to connect eco-team activities with energy-team activities, where Euronet 50/50 MAX brings idea about practical things in energy such as measuring, energy tours etc. On the other side Eco-Schools project allow pupils to learn something about waste topic such as waste sorting, recycling etc. All this activities can be join in one subject — Ecology.

This approach of integration of Euronet 50/50 MAX project activities in curriculum of Ecology subject in 8th and 9th grades together with Eco-schools project activities were used in Primary and Secondary school Čáslavice.

7. Summary

One of key objectives of EURONET 50/50 max was the strategic roll out of the 50/50 concept. The uptake of the concept proceeded very well. It is now included in **199 strategies and action plans** at different levels or implemented in **projects**.

At local level, the target was 100 strategies, and we even found 155 strategies to adopt the concept. The 50/50 method is now part of 26 educational strategies, which is more than our target (16). 408 local, regional and national authorities were contacted to promote the 50/50 concept (instead of

the planned 320) and the project partners cooperated with 41 EU-level initiatives or networks (16 planned).

The biggest challenge was the strategic roll-out at regional and national level. Only 10 regional plans integrated 50/50 (instead of 16) and 8 national relevant action plans (instead of 16). The most strategies and plans at these levels have already been finalized.

The main problems at regional and national level were:

- the majority of these strategies have already been finalized, but there seems to be a good chance to integrate 50/50 in some of these strategies during their next revisions
- in some countries there are no regional strategies (e.g. Cyprus)
- many strategies on regional, national (and local) level have already included measures that partly enter the 50/50 methodology, but do not explicitly state 50/50.
- some project partners (NGOs, universities etc.) had no direct channels and methods to influence strategies at national level

Generally, one can say that the 50/50 concept is very interesting for authorities and stakeholders, as it is a cheap and easy to handle method. Therefore, the EURONET 50/50 MAX partners are sure that the idea will keep spreading in Europe.





8. Annex

- 8.1. Attachments DIBA (Barcelona Provincial Council)
- 8.2. Attachments PNEC (Association of Municipalities Polish Network "Energy Cities")
- 8.3. Attachments UVA (University of Vaasa)
- 8.4. No attachments (CRETE)
- 8.5. Attachments UfU (Independent Institute for Environmental Issues)
- 8.6. Attachments KSSENA (Energy Agency of Savinjska, Šaleška and Koroška Region)
- 8.7. Attachments KREA (Kaunas Regional Energy Agency)
- 8.8. Attachments ZAGREB (City of Zagreb)
- 8.9. Attachments RMS (Riga Manager School)
- 8.10. Attachments -TOP ENVI Tech (TOP-ENVI Tech Brno)
- 8.11. Attachments AFE (Florence energy agency)
- 8.12. Attachments CAA (Climate Alliance Austria)
- 8.13. Attachments DIHU (Province of Huelva)
- 8.14. Attachments CEA (Cyprus energy agency)
- 8.15. Attachments EAV (Energy Agency of Vysocina)