



MAYORS IN ACTION

FOR A SUSTAINABLE FUTURE



Mayors in Action Publication Report on selected SEAP-actions

D3.1. Report on selection of SEAP-actions

CB08 Interleuven 17/01/2016

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Selection of Local Governments (LGs)

All partners of the Mayors in Action project, except ICLEI, have to support at least 5 local governments (LGs) in the selection and (the preparation of) the implementation of SEAP-actions during the project duration. A SEAP is a 'Sustainable Energy Action Plan' submitted by a local government in the frame of the Covenant of Mayors (CoM).

Trainee LGs commit to the implementation of actions planned in their SEAP that will lead to CO₂ reduction, energy savings and the use of renewable energy sources.

The actions will not be funded through the MAYORS in ACTION project budget. Only the costs of the partners (tutors) to support the LGs (trainees) are part of the project budget.

In total 62 trainee LGs out of 7 countries are involved in the project so far and together they selected no less than 154 SEAP-actions (by the start of the project, finally 152 actions were involved at the end of the project duration) to be implemented in the project life time. During the project duration two times an update of the local actions was made (see tables 2-3).

Some operations couldn't be performed (during the project life time) because of different reasons. Most important reasons are administrative barriers (e.g. permits), but also changes of legal framework (e.g. Building Performance Regulation in Greece, new law for public procurement in Italy) and a lack of political or public support for some actions. Many times it happens that priorities of LGs are changing, sometimes influenced by protest of the citizens against some actions.

A lack of finance sources is another recurring reason for deleting certain actions. Typical for small cities is the lack of local capacity to prepare and follow the actions during the implementation resulting in a decrease of the number of actions or in a delay. The Mayors in Action project aimed to provide Coordinators and Supporters with tools and methods to give support to LGs, but sometimes also the capacity of C&S is not sufficient to give all needed support.

Overview of number of LGs and actions

Partner	Short name	Country	Number of LG	Number of actions
Città Metropolitana di Genova	CMGE	Italy	8	12
Province of Barcelona	DIBA	Spain	9	17
City of Zagreb	CZG	Croatia	7	20
Centre for Renewable Energies	CRES	Greece	6	11
Polish network of Energy Cities	PNEC	Poland	7	21
Regione Veneto	Veneto	Italy	8	24
Sogesca s.r.l.	SOG	Italy	5	11
Interleuven	IL	Belgium	12	38
TOTAL			62	154

Table 1: Number of LGs and actions per partner/country (17/01/2016)

Partner	Short name	Country	Number of LG	Number of actions
Città Metropolitana di Genova	CMGE	Italy	8	12
Province of Barcelona	DIBA	Spain	10	17
City of Zagreb	CZG	Croatia	7	21
Centre for Renewable Energies	CRES	Greece	6	22
Polish network of Energy Cities	PNEC	Poland	7	21
Regione Veneto	Veneto	Italy	7	24
Sogesca s.r.l.	SOG	Italy	4	10
Interleuven	IL	Belgium	12	27
TOTAL			61	154

Table 2: Number of LGs and actions per partner/country (26/09/2016)

Partner	Short name	Country	Number of LG	Number of actions
Città Metropolitana di Genova	CMGE	Italy	8	23
Province of Barcelona	DIBA	Spain	10	17
City of Zagreb	CZG	Croatia	7	21
Centre for Renewable Energies	CRES	Greece	6	13
Polish network of Energy Cities	PNEC	Poland	7	21
Regione Veneto	Veneto	Italy	7	24
Sogesca s.r.l.	SOG	Italy	5	17
Interleuven	IL	Belgium	12	16
TOTAL			62	152

Table 3: Number of LGs and actions per partner/country (25/02/2017)

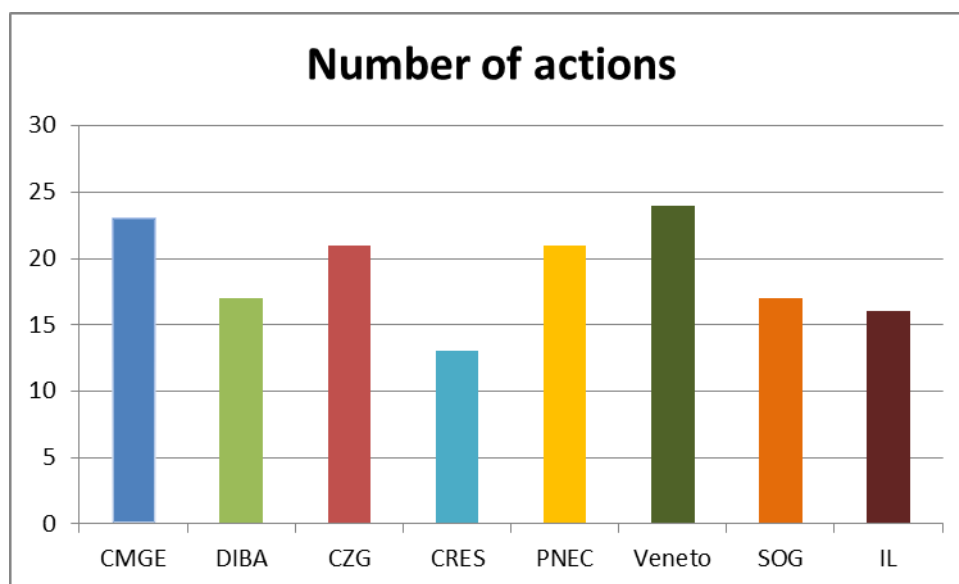


Chart 1 : Final number of actions (25/02/2017)

Selection of most relevant actions

The trainee LGs selected 154 actions from the compendium (Work Package 2) compiled as an inventory of good practices by the project partners. LGs select actions which fit the best to their context and which can contribute the most to the objectives of their SEAP. Project partners supported them by giving advice and deliver additional information from other partners where needed.

Each LG had to select at least 3 actions. The partnership agreed that at least one of them has to be a hard action (investment), one soft (like education) and one in cooperation with private sector (citizens, enterprises). In total 154 actions were selected. There is a broad variety of issues involved: energy efficiency, renewable energy, education, monitoring, transport, ... All type of actors are affected: local authorities, citizens, companies.

Type of action	CMGE	DIBA	CGZ	CRES	PNEC	Veneto	SOG	IL	T
(Public) lighting	5	2	6	2	5	4	1	0	25
EE in buildings	5	4	9	5	7	3	5	6	44
RE - Biomass	0	4	0	0	0	2	0	0	6
RE - Solar	0	5	2	1	6	1	1	3	19
RE - sewage plant	0	0	0	0	1	0	0	0	1

Transport - mobility	0	1	3	0	3	2	1	9	19
Local food chains	0	0	0	0	0	0	0	2	2
Tree planting	0	0	0	0	0	1	0	0	1
Education	2	1	0	3	0	10	3	18	37

Table 4 : Type of action per partner (17/01/2016)

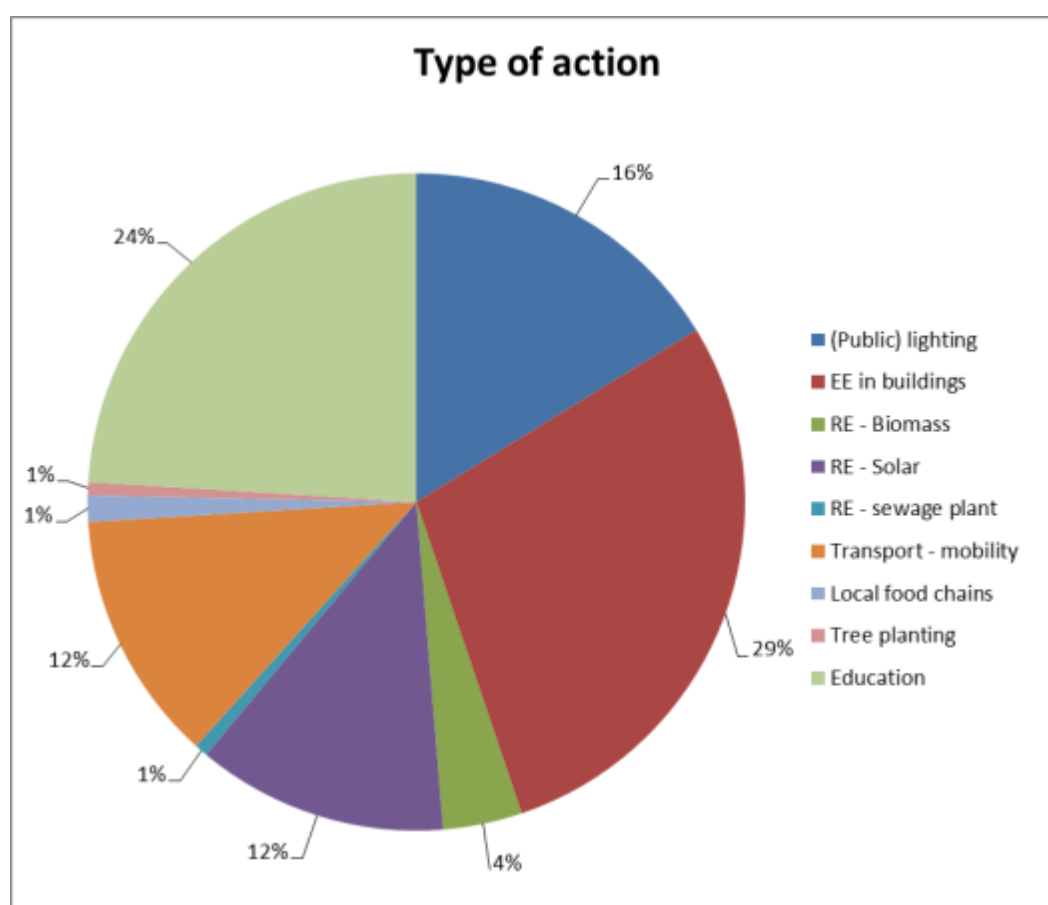


Chart 2 : Type of actions

The largest number of actions (44) is on energy efficiency (EE) in buildings. It can be buildings of public authorities, companies, citizens or farmers. Some of the actions are on stimulating awareness on energy consuming like the installation of smart meters, monitoring, ... Others are on preparing concrete measures to reduce energy consumption like audits and associated advice. But also concrete investments are in like a passive building (kinder garden), refurbishment of public or private buildings, a near zero energy building (NZEB).

Another high number of actions is on education (37). It implies actions on sensitization, information, guiding, advice of citizens, public officers, companies, via a diversity of means. LGs manage different tools and working methods to realise education: info points, websites, switch off actions, energy assessments and advice to

dwellers in houses (households in risk of fuel poverty), campaigns targeting schools, aerial thermographic scans of houses/buildings to demonstrate energy losses, , ... Education actions remain an important and essential part of SEAPs to reach and involve as much people, companies, actors as possible.

The production of renewable energy is also an important issue with 26 actions. Solar is most popular with actions of installing solar panels on houses and public buildings followed by biomass as a heating source and in one case energy production from a sewage plant.

Other actions are on lighting (25), mostly public lighting (dimming, switch off, replacement of luminaires, installing LED, ...), but also relighting of offices and workshops of enterprises. Also actions on transport (19 actions) like enhancing (e-)biking, e-cars, better access to public transport, changing to more renewable fuels, ...

A few actions are on local food chains (2) and tree planting (1).

Important is to mention the actions searching for new financing schemes like collective purchase of e-bikes, insulation, solar panels, solar boilers and the increasing initiatives with the ESCO-model.

For all actions fact sheets and business plans have been developed. All fact sheets and business plans are available on the website of Mayors in Action (www.mayorsinaction.eu) and can inspire other LGs or C&S.

Adaptation and time planning

All partners of the Mayors in Action project are recognized by the Covenant of Mayors as coordinator or supporter (C&S). Based on the data from available tools collected in WP2 C&S and LGs had to adapt the measures displayed in the compendium of tools to the national and local context and legal rules. The adaptation of the actions is a process through which the best practices collected in task 2.1 undergo in order to be feasible and bankable in every different national and local situation.

It consists in

- the assessment of the tool according to the regulatory framework;
- the identification of the critical parts with barriers for the implementation, such as strict regulatory requirements;
- the identification of incentives and subsidies that could influence the implementation
- the re-shaping of the actions in a semi-finished product that can be easily applied in the national framework of the different target groups.

After the adaptation the actions have been developed in “Implementation packages”, in national language, which are models, or roadmaps, for actions’ realization (technical aspects, dimensioning, forms of funding, stakeholders, timing, etc.). Implementation packages are detailed description of the actions with the instructions for LGs for the implementation, containing the following information’s: typical stakeholder inventory and positioning, forms of funding, barriers for implementation, possible incentives, most convenient realization according to national regulations, etc.

In case of actions with large investments, two years was not always enough to finalize tenders or competitive dialogues. In this case a suitable goal has been reached by the end of the project (i.e. sound investment plan and launch of tenders, or political formal commitment for the foreseen investments with specifications, etc.).

Prioritization and selection of actions

After the adaptation process, actions were selected and ranked according to the actual feasibility, which was determined through the prioritization process described below. LGs selected a set of measures which are planned in their SEAP and were selected in the compendium of tools and apply a ranking process according to the priorities established as described below.

The essence of the selection of priorities is the estimation and ranking (grading) of each separate activity or project on the base of a complex of preliminary chosen criteria or groups of criteria. At least one forum open to stakeholders was organized by LGs and each partners for presenting the actions and the evaluation criteria about selected tools.

Prioritization is done according to the following steps:

- Definition of criteria to prioritize actions according to the following parameters:
- Technical appraisal criteria – reliability of technology, minimum technological risk, energy savings achieved, utilization of local potential - RE produced;
- Financial appraisal criteria, bankability (bankable project analysis) – initial investment, project profitability - simple payback
- Environmental appraisal criteria – emission reduction, improved air quality, better living environment;
- Social and political criteria – building comfort, local job creation, local acceptability

Conclusions

The Mayors of Action project brought together 9 partners (8 C&S and ICLEI) out of 7 countries to exchange good practices and to develop methods, templates and tools to inspire and support LGs and C&S all over Europe.

During the project life time 62 LGs were supported with no less than 154 actions. Most common actions are on energy efficiency in buildings, followed by a high number of actions on education. Also actions on producing renewable energy (solar, biomass) are good represented in the involved SEAPs as well as public lighting.

Not all actions have been implemented, some were deleted for different reasons (administrative barriers, no appropriate finance sources available, a lack of capacity to prepare and follow the actions, a lack of public or political support, ...), other have been delayed (changes in law, permits, ...).

But during the project interesting templates have been developed (fact sheets, business plan, ...) and are now available for other C&S or LGs.

C&S are very necessary, certainly for small cities. In the future there importance and professionalism will be more needed than ever to reach the new 2030 objectives of EU energy policy and with the transformation from SEAPs to SECAPs.

Annexes:

Annex 1: overview of actions per LG – situation 17/01/2016

MIA partner	LG involved	ORIGINAL PLANNED ACTIONS	
CMGE	Campo Ligure - Valli SOL	Public lighting	
	Campo Ligure - Valli SOL	Refurbishment of private buildings	
	Campo Ligure - Valli SOL	Renewable energy in public buildings	
	Masone - Valli SOL	Public lighting	
	Masone - Valli SOL	Refurbishment of private buildings	
	Masone - Valli SOL	Renewable energy in public buildings	
	Mele - Valli SOL	Public lighting	
	Mele - Valli SOL	Refurbishment of private buildings	
	Mele - Valli SOL	Renewable energy in public buildings	
	Rossiglione - Valli SOL	Public lighting	
	Rossiglione - Valli SOL	Refurbishment of private buildings	
	Rossiglione - Valli SOL	Renewable energy in public buildings	
	Tiglieto - Valli SOL	Public lighting	
	Tiglieto - Valli SOL	Refurbishment of private buildings	
	Tiglieto - Valli SOL	Renewable energy in public buildings	
	Davagna	Public lighting	
	Davagna	Refurbishment of municipal gym	
	Davagna	Renewable energy in public buildings	
	Moconesi	Public lighting	
	Moconesi	Infopoint	
	Moconesi	Refurbishment of public buildings	
	Sestri Levante	Public lighting	
	Sestri Levante	Switch it off	
	Sestri Levante	Zagreb Energy Week	
	DIBA	Calella	Biomass installation in a sports facility
		Cornellà del Llobregat	Energy assessment visits in fuel poverty risk homes
		Santa Coloma de Cervelló	Public lighting improvement
		Santa Coloma de Cervelló	PV installation for self consumption in a municipal building
Viladecans		Public lighting improvement	
Viladecans		Energy map of the city	
Viladecans		Energy efficiency in municipal buildings	
Manresa		Biomass installation in swimming pools	
Manresa		PV installation for self consumption in a municipal building	
Navàs		Biomass installation in swimming pools and sports facilities	
Navàs		PV installation for self consumption in a municipal building	
Vilafranca del Penedès		Biomass installation in swimming pools and sports facilities	
Manlleu		Electrical bicycles for municipal staff	
Manlleu	Energy assessment visits in households in risk of fuel poverty		

	Manlleu	PV installation for self consumption in two municipal buildings
	Sabadell	Energy assessment visits in households in risk of fuel poverty
	Sabadell	PV installation for self consumption in two municipal buildings
CZG	Bjelovar	Refurbishment of public buildings
	Bjelovar	Modernization of street lighting
	Bjelovar	Implementation of solar collectors on public building
	Gospic	Sufinancing energy efficient measures in private houses
	Gospic	Modernization of street lighting
	Karlovac	Refurbishment of public buildings
	Karlovac	Modernization of street lighting
	Karlovac	Sufinancing implementation of solar collectors in private houses
	Krizevci	Sufinancing energy efficient measures in private houses
	Krizevci	Modernization of street lighting
	Slunj	Energy retrofitting of a municipal building
	Slunj	Replacement of old joinery on a municipal building
	Slunj	Replacement of old joinery on a building
	Slunj	Replacement of an old, inefficient truck that collect waste
	Sveta Nedjelja	Replacement of old joinery on a municipal building
	Sveta Nedjelja	Modernization of street lighting
	Sveta Nedjelja	Purchase of two electrical cars for public needs of the Sveta Nedjelja
	Velika Gorica	Refurbishment of primary school Nikole Hribara
	Velika Gorica	Modernization of street lighting
Velika Gorica	Implementation of four filling stations for electrical cars	
GRES	Farsala	Campaign for promoting sustainable energy measures targeted to schools and citizens, development of web page
	Farsala	Energy retrofitting of municipal buildings and private households
	Farsala	Installation of autonomous PV lighting systems for replacing existing municipal lighting system in the Megalo Evydrio Community
	Farsala	Installation of autonomous PV systems on roofs of private houses and municipal buildings in the Megalo Evydrio Community
	Likovrisi-Pefki	Development of a website for information on energy efficiency
	Likovrisi-Pefki	Energy retrofitting of 3 schools and 1 municipal building funded by the national programme EXOIKONOMO
	Likovrisi-Pefki	Energy retrofitting of a school building funded by Building Infrastructures SA
	Likovrisi-Pefki	Campaign targeted to schools
	Vrilissia	Collection of building energy data through online tool for citizens
	Vrilissia	Energy Retrofitting of Lykabetus Street
	Vrilissia	Energy Audits and Retrofitting of municipal buildings
ANEC	Bielsko-Biala	Thermal retrofitting of selected schools

VENETO	Bielsko-Biala	Installation of PV cells on selected public buildings
	Bielsko-Biala	Replacement of old, inefficient buses used in public transport
	Chorzele	Modernization of street lighting (installation of LED lamps)
	Chorzele	Installation of solar thermal collectors on selected households
	Chorzele	Expansion of the natural gas network and connecting new buildings to the grid
	Czestochowa	Thermal retrofitting of selected schools
	Czestochowa	Introduction of environmentally friendly vehicles in public transport
	Czestochowa	Construction of transfer centers to better communicate the city
	Dabrowa Gónicza	Thermal retrofitting of selected schools
	Dabrowa Gónicza	Modernization of street lighting
	Dabrowa Gónicza	Installation of solar thermal collectors on schools with swimming pools
	Koscierzyna	Installation of solar thermal collectors and PV cells on selected municipal buildings
	Koscierzyna	Modernization of street lighting
	Koscierzyna	Modernization of district heating network
	Niepolomice	Installation of smart meters in public buildings
	Niepolomice	Thermal retrofitting of selected public buildings (cultural sites + schools)
	Niepolomice	Installation of solar thermal collectors and PV cells on selected buildings
	Raciechowice	Modernization of street lighting
	Raciechowice	Installation of PV cells on selected public buildings and households
	Raciechowice	Energy generation at the sewage treatment plant
	Affi	Public lighting
	Affi	Installation of PV canopies
	Affi	Certification ISO 50001 of the Municipality
	Bagnolo di Po	House of water
	Bagnolo di Po	Information campaigns: ENERGIcamente
	Bagnolo di Po	Lighting of the cemetery
	Gavello	Smart metering in public buildings
	Gavello	Information campaigns: ENERGIcamente
	Gavello	Purchase of certified green energy and promotion of RES
	Lendinara	House of water
	Lendinara	Information campaigns: ENERGIcamente
	Lendinara	Energy helpdesk
	Mareno di Piave	Public lighting
Mareno di Piave	Audits, metering and energy monitoring	
Mareno di Piave	Information campaigns on renewable energy sources, energy savings	
San Donà di Piave	Public lighting	
San Donà di Piave	Smart metering in public buildings	
San Donà di Piave	Implementation of Pedibus	
Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Tree planting	
Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Public lighting	

	Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Biomass district heating
	Joint SEAP: Cappella Maggiore, Fregona, Sarmede	Info Campaigns: Energy day at school
	Joint SEAP: Cappella Maggiore, Fregona, Sarmede	Electric bike sharing among Municipalities
	Joint SEAP: Cappella Maggiore, Fregona, Sarmede	Involvement of a third party: supply of biomass for district heating of 3 Municipalities
SOGESCA	Este	Sustainable Criteria in Municipal Regulations
	Este	Refurbishment of public buildings
	Rubano	PV on private/company buildings
	Rubano	Refurbishment of public buildings
	Rubano	Internal lighting systems of industrial sector
	Santorso	Energy Counter
	Santorso	Sustainable Criteria in Municipal Regulations
	Santorso	Refurbishment of public buildings
	Schio	Transport
	Schio	Support at companies for energy performance improvement
	Duino Aurisina	Waste Separate Collection
	Duino Aurisina	Improvement of Urban Sustainable mobility
INTERLEUVEN	Bekkevoort	New building child day care (passive building)
	Bekkevoort	Energetic efficient refurbishment roof town hall
	Boortmeerbeek	Thermographic scans private houses and municipal buildings
	Haacht	Encouraging reduced energy consumption in households
	Haacht	Purchase of CNG vehicles for municipal use (group purchase of the grid operator)
	Haacht	Thermographic aerial picture of the municipality
	Herent	Group purchase electric bikes for citizens
	Herent	Thermographic scans private houses and municipal buildings
	Herent	New energy efficient building: town hall
	Herent	Energy scans of agricultural companies
	Herent	Rural projects: Short circuit farm and regional products
	Keerbergen	Group purchase electric bikes for citizens
	Keerbergen	Thermographic street pictures by car
	Keerbergen	Thermographic aerial picture of the municipality
	Keerbergen	Save@work: energy saving in public buildings
	Landen	Energy scans of agricultural companies
	Landen	Group purchase of wall insulation
	Landen	Save@work: energy saving in public buildings
	Landen	Rural projects: Short circuit farm and regional products
	Landen	Thermographic scans private houses and municipal buildings
	Lintier	Group purchases of photovoltaic panels and solar heaters
	Lubbeek	Group purchase electric bikes for citizens
Lubbeek	Group purchases of photovoltaic panels and solar heaters	
Lubbeek	Organisation of a Energy Performance Contract for refurbishment of municipal buildings	
Opwijk	Thermographic scans private houses combined with advice sustainable building	

	Opwijk	Purchase of CNG vehicles for municipal use
	Opwijk	Save@work: energy saving in public buildings
	Opwijk	Group purchase roof insulation
	Rotselaar	Purchase of CNG vehicles for municipal use
	Rotselaar	Group purchases of photovoltaic panels and solar heaters
	Tervuren	Group purchase electric bikes for citizens
	Tervuren	Turn off and dimming public lighting
	Tervuren	Carsharing
	Tervuren	Thermographic aerial picture of the municipality
	Tremelo	Group purchase electric bikes for citizens
	Tremelo	Thermographic scans private houses
	Tremelo	Subsidy for households for advice sustainable building
	Tremelo	Save@work: energy saving in public buildings
ICLEI	n.a.	

Annex 2: Update local actions and LGs – situation 26/09/2016

MiA partner	LG	RESTING ACTIONS 26/09/2016	
CMGE	Campo Ligure - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Masone - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Masone - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public buildings (3 buildings)	
	Mele - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Rossiglione - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Tiglieto - Valli SOL	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Davagna	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Davagna	PPP Filse (Fondo per lo Sviluppo) - public buildings (2 buildings)	
	Moconesi	PPP Filse (Fondo per lo Sviluppo) - public buildings (2 buildings)	
	Moconesi	Genova Smart City week (23-28 May 2016)	
	Sestri Levante	PPP Filse (Fondo per lo Sviluppo) - public lighting	
	Sestri Levante	Genova Smart City week (23-28 May 2016)	
	DIBA	Calella	Public lighting improvement
		Calella	PV installation for self consumption in a municipal building
Collsuspina		Energy assessment visits in the residential sector	
Cornellà del Llobregat		Energy assessment visits in fuel poverty risk homes	
Santa Coloma de Cervelló		Public lighting improvement	

	Santa Coloma de Cervelló	PV installation for self consumption in a municipal building	
	Viladecans	Public lighting improvement	
	Viladecans	Energy map of the city	
	Manresa	Biomass installation in a sports facility	
	Manresa	PV installation for self consumption in a municipal building	
	Manlleu	Electrical bicycles for municipal staff	
	Manlleu	Energy assessment visits in households in risk of fuel poverty	
	Sabadell	Energy assessment visits in households in risk of fuel poverty	
		San Fruitós del Bages	Biomass installation in municipal facilities
		San Fruitós del Bages	Public lighting improvement
		San Fruitós del Bages	Energy efficiency in municipal buildings
		Sant Julià de Vilatorça	Biomass installation in a municipal facility
	CZG	Bjelovar	Thermal insulation of the outer shell and the roof of 15 city buildings - Energy reconstruction of IV. Elementary School
		Bjelovar	Modernization of public lighting
Bjelovar		Modernization of boiler room in IV. Elementary School	
Gospic		Education and promotion of energy efficiency for citizens	
Gospic		The introduction of the automatic payment for parking in the City	
Gospic		Implementation of filling station for electric vehicles	
Karlovac		Refurbishment of public buildings - kindergarten Rakovac	
Karlovac		Refurbishment of public buildings - primary school Dubovac	
Karlovac		Encouraging installation of heat cost allocators and thermostatic valves in the central heating system of the City of Karlovac	
Krizevci		Energy advisers for the energy-poor households	
Krizevci		Modernization of spotlighting of monuments and architectural heritage	
Krizevci		Energy reconstruction and usage of RES in the primary school "Vladimir Nazor"	
Slunj		Energy efficient measures on the local government building (City office)	

CRES	Slunj	Modernization of the lighting system in the central area of the City of Slunj
	Slunj	Modernization of the lighting system in watermill village Rastoke
	Sveta Nedjelja	Replacement of old joinery on a municipal building
	Sveta Nedjelja	Purchase of two electrical cars for public needs of the Sveta Nedjelja
	Sveta Nedjelja	Energy retrofitting of the cultural heritage – “Mitnica”
		Energy conference
	Velika Gorica	Energy and qualitative reconstruction of a part of the public lighting system
		Installation an integrated photovoltaic power plant
	Farsala	Campaign for promoting sustainable energy measures targeted to schools and citizens, development of web page
	Farsala	Energy retrofitting of municipal buildings and private households
	Megara	Purchase of Smart Energy Meters
	Megara	Public lighting replacement with new energy efficient lamps
	Megara	Photovoltaic systems installation on municipal buildings
	Likovrasi-Pefki	Development of a website for information on energy efficiency
	Likovrasi-Pefki	Energy retrofitting of 3 schools and 1 municipal building funded by the national programme EXOIKONOMO
	Likovrasi-Pefki	Energy retrofitting of a school building funded by Building Infrastructures SA
Likovrasi-Pefki	Campaign targeted to schools	
Tripolis	Public lighting of streets and squares	
Tripolis	Replacement of old polluting municipal vehicles	
Tripolis	Transformation of 2 buildings in energy model buildings	
Tripolis	Energy awareness campaigns and creation of an electronic information platform	
Vrilissia	Conversion from fuel-oil to natural gas for heating private and municipal buildings	
Vrilissia	Upgrading urban lighting system	
Vrilissia	Public awareness about the importance of their participation in the reduction of carbon footprint	

	Agios Dimitrios	Smart and advanced metering installation and data acquisition in 5 municipal buildings
	Agios Dimitrios	Installation of a remote fleet management system for mechanical diagnosis and adaptation of ecodriving principles
	Agios Dimitrios	Installation of a Dual Fuel Conversion System (diesel - CNG) for 3 diesel engine vehicles
	Agios Dimitrios	Installation of a Dual Fuel Conversion System (gasoline - LPG) for 3 gasoline engine vehicles
	Agios Dimitrios	Public procurement of 10 new CNG garbage trucks
	Agios Dimitrios	Replacement of 750 HPS lighting luminaires with LED luminaires
PNEC	Bielsko-Biala	Thermal retrofitting of 8 municipal educational centers (kindergartens & schools)
	Bielsko-Biala	Educational campaign "Each Watt for the weight of gold" in schools
	Bielsko-Biala	Expansion and modernisation of the municipal district heating system
	Chorzele	Modernization of street lighting (installation of LED lamps)
	Chorzele	Installation of solar thermal collectors on selected households
	Chorzele	Implementation of energy monitoring system
	Czestochowa	Thermal retrofitting of selected schools
	Czestochowa	Introduction of environmentally friendly vehicles in public transport
	Czestochowa	Expansion of the municipal district heating system to connect new buildings to the heating grid
	Dabrowa Gónicza	Thermal retrofitting of selected schools
	Dabrowa Gónicza	Modernization of street lighting
	Dabrowa Gónicza	Installation of solar thermal collectors on schools with swimming pools
	Koscierzyna	Thermal retrofitting of selected multi-family residential buildings connected with educational campaign
	Koscierzyna	Thermal retrofitting of selected public use buildings
	Koscierzyna	Educational campaign for improving air quality in Koscierzyna and surrounding areas
Niepolomice	Installation of smart meters in public buildings	
Niepolomice	Thermal retrofitting of selected public buildings (cultural sites + schools)	

	Niepolomice	Installation of solar thermal collectors and PV cells on selected buildings
	Raciechowice	Modernization of street lighting
	Raciechowice	Installation of PV cells on selected public buildings and households
	Raciechowice	Energy generation at the sewage treatment plant
VENETO	Affi	Public lighting
	Affi	Installation of PV canopies
	Affi	Certification ISO 50001 of the Municipality
	Bagnolo di Po	House of water
	Bagnolo di Po	Information campaigns: ENERGIcAmente
	Bagnolo di Po	Lighting of the cemetery
	Gavello	Smart metering in public buildings
	Gavello	Information campaigns: ENERGIcAmente
	Gavello	Purchase of certified green energy and promotion of RES
	Lendinara	House of water
	Lendinara	Information campaigns: ENERGIcAmente
	Lendinara	Energy helpdesk
	Mareno di Piave	Public lighting
	Mareno di Piave	Audits, metering and energy monitoring
	Mareno di Piave	Information campaigns on renewable energy sources, energy savings
	San Donà di Piave	Public lighting
	San Donà di Piave	Smart metering in public buildings
	San Donà di Piave	Implementation of Pedibus
	Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Tree planting
	Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Public lighting
Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Biomass district heating	
Joint SEAP: Cappella Maggiore, Sarmede	Info Campaigns: Energy day at school	
Joint SEAP: Cappella Maggiore, Sarmede	Electric bike sharing among Municipalities	

	Joint SEAP: Cappella Maggiore, Sarmede Fregona,	Involvement of a third party: supply of biomass for district heating of 3 Municipalities
SOGESCA	Este	Sustainable Criteria in Municipal Regulations
	Este	Green electricity purchasing group
	Este	Extension of District Heating Grid
	Rubano	PV on private/company buildings
	Rubano	Refurbishment of public buildings
	Rubano	Internal lighting systems of industrial sector
	Santorso	Energy Purchasing Groups
	Santorso	Energy Counter
	Schio	Transport
	Schio	Support at companies for energy performance improvement
INTERLEUVEN	Bekkevoort	New building child day care (passive building)
	Bekkevoort	Energetic efficient refurbishment roof town hall
	Boortmeerbeek	Thermographic scans private houses and municipal buildings
	Haacht	Encouraging reduced energy consumption in households
	Haacht	Purchase of CNG vehicles for municipal use (group purchase of the grid operator)
	Haacht	Thermographic aerial picture of the municipality
	Herent	Energy scans of agricultural companies
	Herent	Rural projects: Short circuit farm and regional products
	Keerbergen	Group purchase electric bikes for citizens
	Keerbergen	Thermographic street pictures by car
	Keerbergen	Thermographic aerial picture of the municipality
	Landen	Energy scans of agricultural companies
	Landen	Group purchase of wall insulation
	Linter	Heating by local wood chips in municipal buildings
	Linter	Use of renewable energy sources in the municipal primary school of Wommersom
	Lubbeek	Group purchase electric bikes for citizens
	Lubbeek	Organisation of a Energy Performance Contract for refurbishment of municipal buildings
	Opwijk	Thermographic scans private houses combined with advice sustainable building

	Opwijk	Purchase of CNG vehicles for municipal use
	Opwijk	Group purchase roof insulation
	Rotselaar	Purchase of CNG vehicles for municipal use
	Tervuren	Group purchase electric bikes for citizens
	Tervuren	Turn off and dimming public lighting
	Tervuren	Carsharing
	Tervuren	Thermographic aerial picture of the municipality
	Tremelo	Subsidy for households for advice sustainable building
	Tremelo	Save@work: energy saving in public buildings
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Annex 3: Update of local actions and LGs – situation 25/02/2017

MIA partner	LG	RESTING ACTIONS 25/02/2017	
CMGE	Campo Ligure - Valli SOL	Energy saving actions for public lighting Energy saving & renewable energies actions for public buildings Implementation of local information desks GenovaMetropoliFIT	
	Masone - Valli SOL	Energy saving actions for public lighting Implementation of local information desks Information campaign for schools GenovaMetropoliFIT	
	Mele - Valli SOL	Energy saving actions for public lighting Implementation of local information desks GenovaMetropoliFIT	
	Rossiglione - Valli SOL	Energy saving actions for public lighting Implementation of local information desks GenovaMetropoliFIT	
	Tiglieto - Valli SOL	Implementation of local information desks GenovaMetropoliFIT	
	Davagna	Implementation of local information desks Information campaign for schools GenovametropoliFIT	
	Moconesi	Implementation of local information desks GenovaMetropoliFIT	
	Sestri Levante	Implementation of local information desks GenovaMetropoliFIT	
	DIBA	Calella	Public lighting improvement
		Calella	PV installation for self consumption in a municipal building
Collsuspina		Energy assessment visits in the residential sector	

	Cornellà del Llobregat	Energy assessment visits in fuel poverty risk homes
	Santa Coloma de Cervelló	Public lighting improvement
	Santa Coloma de Cervelló	PV installation for self consumption in a municipal building
	Viladecans	Public lighting improvement
	Viladecans	Energy map of the city
	Manresa	Biomass installation in a sports facility
	Manresa	PV installation for self consumption in a municipal building
	Manlleu	Electrical bicycles for municipal staff
	Manlleu	Energy assessment visits in households in risk of fuel poverty
	Sabadell	Energy assessment visits in households in risk of fuel poverty
	San Fruitós del Bages	Biomass installation in municipal facilities
	San Fruitós del Bages	Public lighting improvement
	San Fruitós del Bages	Energy efficiency in municipal buildings
	Sant Julià de Vilatorrada	Biomass installation in a municipal facility
CZG	Bjelovar	Thermal insulation of the outer shell and the roof of 15 city buildings - Energy reconstruction of IV. Elementary School
	Bjelovar	Modernization of public lighting
	Bjelovar	Modernization of boiler room in IV. Elementary School
	Gospic	Education and promotion of energy efficiency for citizens
	Gospic	Implementation of the filling station for electrical vehicles
	Gospic	The introduction of the automatic payment for parking in the City
	Karlovac	Refurbishment of public buildings - kindergarten Rakovac
	Karlovac	Refurbishment of public buildings - primary school Dubovac
	Karlovac	Encouraging installation of heat cost allocators and thermostatic valves in the central heating system of the City of Karlovac
	Krizevci	Modernization of spotlighting of monuments and architectural heritage
	Krizevci	Energy reconstruction and usage of RES in the primary school "Vladimir Nazor"
	Krizevci	Energy advisers for the energy-poor households
	Slunj	Energy efficient measures on the local government building (City office)
	Slunj	Modernization of the lighting system in the central area of the City of Slunj
	Slunj	Modernization of the lighting system in watermill village Rastoke
	Sveta Nedjelja	Energy retrofitting of the cultural heritage of Mitnica
	Sveta Nedjelja	Energy retrofitting of the community building in Strmec

	Sveta Nedjelja	Purchase of one electrical car for public needs of the Sveta Nedjelja
	Velika Gorica	Energy conference
	Velika Gorica	Energy and qualitative reconstruction of a part of the public lighting system
	Velika Gorica	Installation an integrated photovoltaic power plant
CRES	Farsala	Campaign for promoting sustainable energy measures targeted to schools and citizens, development of web page
	Farsala	Energy retrofitting in six municipal buildings
	Farsala	Energy retrofitting of an indoor hall to be constructed by private business – ZEB
	Likovrisi-Pefki	Awareness campaign targeted to municipality staff, schools and citizens
	Likovrisi-Pefki	Energy efficiency improvement in 3 schools and 1 municipality building
	Likovrisi-Pefki	Energy retrofitting of a school building funded by Building Infrastructures SA
	Tripolis	Public lighting of streets and squares
	Vrilissia	Conversion from fuel-oil to natural gas for heating private and municipal buildings
	Vrilissia	Upgrading of the urban lighting system and replacement of all lighting fixtures with modern, high energy efficient luminaires
	Vrilissia	Public awareness about the importance of their participation in the reduction of carbon footprint
	Agios Dimitrios	Energy consumption electronic recording in municipal buildings - Smart Meters
	Agios Dimitrios	Installation of a remote fleet management system suitable for enhancing ecodriving principles and minimizing mechanical failures.
	Agios Dimitrios	Procurement of 3 new CNG garbage trucks
PNEC	Bielsko-Biala	Thermal retrofitting of 8 municipal educational centers (3 kindergartens, 2 primary schools, 1 secondary school and 2 school complexes)
	Bielsko-Biala	Educational campaign "Each Watt for the weight of gold" in schools
	Bielsko-Biala	Expansion and modernisation of the municipal district heating system
	Chorzele	Modernization of street lighting (installation of LED lamps)
	Chorzele	Construction of PV plant supplying selected buildings with solar energy
	Chorzele	Thermomodernisation of the city hall
	Czestochowa	Thermal retrofitting of selected schools
	Czestochowa	Introduction of environmentally friendly vehicles in public transport
	Czestochowa	Expansion of the municipal district heating system to connect new buildings to the heating grid
	Dabrowa Gónicza	Energy monitoring of public buildings
	Dabrowa Gónicza	Optimisation of energy consumption connected with thermal retrofitting works in selected schools

	Dabrowa Gónicza	Installation of RES with elements improving energy efficiency in selected municipal buildings
	Koscierzyna	Thermal retrofitting of selected multi-family residential buildings connected with educational campaign
	Koscierzyna	Thermal retrofitting of selected public use buildings
	Koscierzyna	Educational campaign for improving air quality in Koscierzyna and surrounding areas
	Niepolomice	Construction of Environmentally Friendly Administration Center
	Niepolomice	Thermal retrofitting of selected public buildings (cultural sites + schools)
	Niepolomice	Modernisation and installation of solar thermal installations on the sports facility "Puszcza"
	Raciechowice	Modernization of street lighting
	Raciechowice	Installation of PV cells on selected public buildings and households
	Raciechowice	Improvement of energy management and air quality
VENETO	Affi	Public lighting
	Affi	Installation of PV canopies
	Affi	Certification ISO 50001 of the Municipality
	Bagnolo di Po	House of water
	Bagnolo di Po	Information campaigns: ENERGIcAMENTE
	Bagnolo di Po	Lighting of the cemetery
	Gavello	Smart metering in public buildings
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	Joint SEAP: Farra di Soligo, Sernaglia della Battaglia	Biomass district heating
	Joint SEAP: Cappella Maggiore, Sarmede	Info Campaigns: Energy day at school
	Joint SEAP: Cappella Maggiore, Sarmede	Electric bike sharing among Municipalities

	Joint SEAP: Maggiore, Sarmede	Cappella Fregona,	Involvement of a third party: supply of biomass for district heating of 3 Municipalities
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	Este		Green electricity purchasing group
	Este		Extension of District Heating Grid
	Rubano		PV on private/company buildings
	Rubano		Refurbishment of public buildings
	Rubano		Internal lighting systems of industrial sector
	Santorso		Energy Purchasing Groups
	Santorso		Energy Counter
	Santorso		Sustainable Criteria in Municipal Regulations
	Santorso		Refurbishment of public buildings
	Schio		Promotion of sustainable transport
	Schio		Support at companies for energy performance improvement
	Schio		Energy Audits for condominiums
	Schio		Energy Counter
	Duino Aurisina		Waste Separate Collection
	Duino Aurisina		Improvement of Urban Sustainable mobility
	Duino Aurisina		Improvement energy performance municipal buildings
INTERLEUVEN	Boortmeerbeek		Thermographic scans private houses and municipal buildings
	Haacht		Purchase of CNG vehicles for municipal use (group purchase of the grid operator)
	Haacht		Thermographic aerial picture of the municipality
	Herent		Energy scans of agricultural companies
	Herent		Rural projects: Short circuit farm and regional products
	Keerbergen		Group purchase electric bikes for citizens
	Keerbergen		Thermographic aerial picture of the municipality
	Landen		Energy scans of agricultural companies
	Linter		Heating by local wood chips in municipal buildings
	Lubbeek		Group purchase electric bikes for citizens
	Opwijk		Purchase of CNG vehicles for municipal use
	Rotselaar		Purchase of CNG vehicles for municipal use
	Tervuren		Group purchase electric bikes for citizens
	Tervuren		Thermographic aerial picture of the municipality
	Tremelo		Subsidy for households for advice sustainable building
Tremelo		Save@work: energy saving in public buildings	
ICLEI	n.a.		

CONSORTIUM:

METROPOLITAN CITY OF GENOVA (Coordinator) - www.cittametropolitana.genova.it

PROVINCE OF BARCELONA - www.diba.cat

CRES - www.cres.gr

CITY OF ZAGREB - www.zagreb.hr

PNEC - www.pnec.org.pl

VENETO Region - www.regione.veneto.it

SOGESCA - www.sogesca.it

INTERLEUVEN - www.interleuven.be

ICLEI EUROPE - www.iclei-europe.org



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