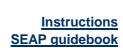


Monitoring Template

The monitoring template must be submitted every two years after the SEAP submission date. Having in mind that reporting every two years might put too much pressure on human or financial resources, you can decide to carry out emission inventories at least every four years. In this way, you can submit every two years an Action Reporting, i.e. a monitoring template without a monitoring emission inventory (MEI) and focused on the reporting of the status of implementation of your actions. However, every four years you must submit a Full Reporting, i.e. a monitoring template which includes all the three parts.





Signatory information:	
Name:	
Country:	
Contact person:	

Template	Template caption:											
	Mandatory input cells											
	Optional input cells											
	Output cells											
	Pre-filled cells											
<u>Definition</u>	Definition boxes (visible when clicking)											

Template structure:

- ✓ Part I My Overall Strategy
- ✓ Part II My Emission Inventories
- ✓ Part III My Sustainable Energy Action Plan



Follow the steps below (part I > II > III in this order):

- ✓ Step 1 Fill in the form.
- ✓ Step 2 Click on "Go to the next part".
- ✓ Step 3 If any error is reported, please correct it.
- √ Step 4 Click on "See report" and submit the SEAP online.



Fill in the SEAP template

See SEAP report

Submit online

Fill in the Monitoring template

See Monitoring report

Submit online



European

Developed by: Covenant of Mayors Office & Joint Research Centre of the European Commission | Last update: May 2014

Disclaimer: The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Communities. The European Commission is not responsible for any use that may be made of the information contained therein.

Part I - My Overall Strategy

My Overall Strategy	
1) Overall CO ₂ reduction target (%)	2020 target Long-term target Baseline year Target year Absolute reduction Per capita reduction Population estimates by 2020
2) <u>Vision</u>	
Coordination and organisational structures created/assigned	
4) Staff capacity allocated	SEAP preparation: Local authority
5) Involvement of stakeholders and citizens	

Part I - My Overall Strategy

Overall budget for your SEAP implementation	☐ Local authority	Budget spent so far (€) Investment Non-investment	Overall budget foreseen for SEAP implementation (€) Investment Non-investment
Budget spent so far for SEAP implementation	☐ Other actors	Investment Non-investment Total	Investment Non-investment Total
	Time period 1990	2020 31 years	Time period 1990 2020 31 years
7) Financing sources used so far for SEAP implementation	☐ Public ☐ Local Auhtority's ow ☐ National Funds & P ☐ EU Funds & Progra ☐ Private	rogrammes	

Part I - My Overall Strategy

	Please rate (little/fair/strong/not applicable) the main pro						
ĺ	/	All sectors	Municipal	Tertiary	Residential	Transport	
	Limited financial sources						
	Absence of / weak regulatory framework						
	Lack of technical expertise						Main barriers to
	Lack of support from stakeholders						SEAP implementation
	Lack of political support at other administrative levels						
	Changes in the local political priorities						
	Incompability with national policy orientations						
į	Immature or high cost technologies]
·							

Part II - My Emission Inventories Results of your latest Monitoring Emission Inventory (same reporting form as for the Baseline Emission Inventory) Monitoring Emission Inventory 1) Inventory year 2) Number of inhabitants in the inventory year ☐ IPCC 3) Emission factors LCA (Life Cycle Assessment) 4) Emission reporting unit □ tonnes CO₂ tonnes CO₂ equivalent 5) Methodological notes and data sources **Results of the Emission Inventory** A. Final energy consumption Please select the sectors included in your emission inventory: ☐ Buildings, equipment facilities and industries ☐ Municipal buildings, equipment/facilities 🦴 ☐ Tertiary (non municipal) buildings, equipment/facilities 🦴 Residential buildings ☐ Public lighting ☐ Industry ☐ Industry Non-ETS ☐ Industry ETS (not recommended) ☐ Transport 🔧 ☐ Municipal fleet ☐ Public transport ☐ Private and commercial transport ☐ Agriculture, Forestry, Fisheries

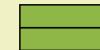
Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

							FI	NAL ENER	GY CONSUM	PTION [MWh]						
						Foss	il fuels					Re	newable ener	gies		
Sector	Electric	ity Heat/cold	Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENT/FACILITIES A	ND INDUSTRIES															
Municipal buildings, equipment/facilities	<u>s</u>															0
Tertiary (non municipal) buildings, equi	pment/facilities															0
Residential buildings																0
Public lighting																0
No decadance	lon-ETS															0
<u>Industry</u>	TS (not recommended)															0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRANSPORT																
Municipal fleet																0
Public transport																0
Private and commercial transport																0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER																
Agriculture, Forestry, Fisheries																0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B. Energy supply
Please select when applicable:
☐ Municipal purchases of certified green electricity
Local/distributed electricity production:
☐ Wind
☐ Hydroelectric
☐ Photovoltaics
☐ Geothermal
☐ Combined Heat & Power
☐ Other
Local heat/cold production:
☐ Combined Heat & Power
☐ District heating (heat-only)
☐ Other

B1. Municipal purchases of certified green electricity

Certified green electricity purchased [MWh] CO₂ emission factor [t/MWh]



B2. Local/distributed electricity production

Local renewable electricity plants (ETS and large-scale plants > 20 MWe not recommended)	Renewable electricity produced [MWh]	CO ₂ emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind			0
Hydroelectric			0
Photovoltaics			0
Geothermal			0
TOTAL	0		0

B3. Local/distributed electricity production

		y produced IWh]			Fossil fuels		Energy ca	rrier input	[MWh]				CO ₂ / CO ₂ eq. emissions [t	
Local electricity production plants (ETS and large-scale plants > 20 MW not recommended)		from	Natural gas			Lignite	Coal	Waste	Plant oil	Other biomass	Other renewable	Other	Fossil sources	Renewable sources
Combined Heat and Power														
Other														
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

	Heat/cold	d produced		CO ₂ / CO ₂ eq. emissions [t]										
	[M	[MWh]		Fossil fuels									3327 332 33	i cimociono [t]
Local heat/cold production plants	Total	from renewable sources	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Waste	Plant oil	Other biomass	Other renewable	Other	Fossil sources	Renewable sources
Combined Heat and Power														
District heating (heat-only)														
Other														
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

	Electi	ricity						Fossil fuels	Renewable energies							
	<u>National</u>	<u>Local</u>	Heat/cold	Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
BEI year	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEI year																

C2. Please tick the box in case non-energy related sectors are included:

Non-energy related sectors	CO ₂ eq. emissions
Waste management	
Waste water management	
Other non-energy related	

Your Baseline Emission Inventory

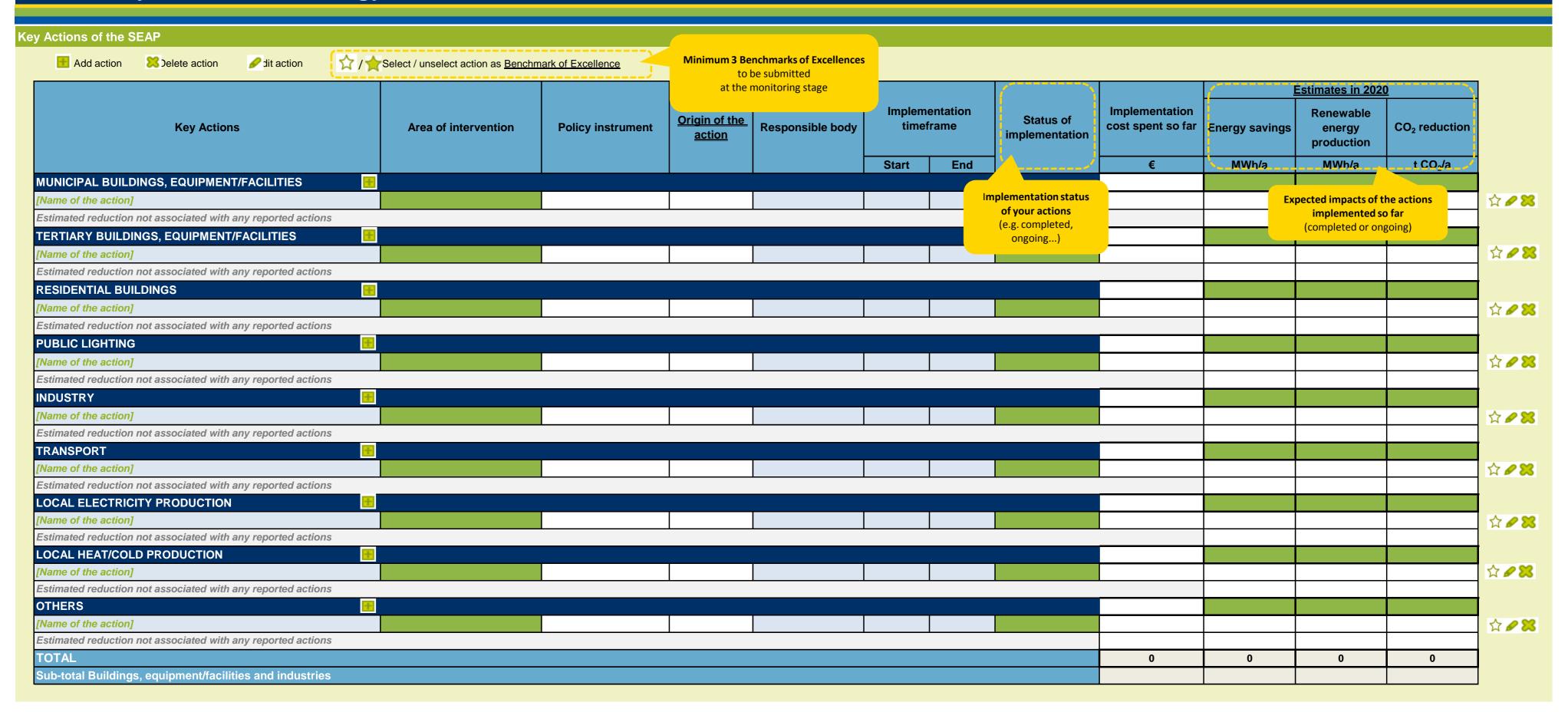
Sector		CO2 emissions [t]/ CO2 equivalent emissions [t]															
				Fossil fuels						Renewable energies							
		Electricity	Heat/cold	Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENT/FACILITIES	S AND INDUSTRIES																
Municipal buildings, equipment/facil	ities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tertiary (non municipal) buildings, e	quipment/facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Municipal public lighting		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industries	ETS (not recommended)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRANSPORT																	
Municipal fleet		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public transport		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private and commercial transport		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER																	
Agriculture, Forestry, Fisheries	Agriculture, Forestry, Fisheries		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER NON-ENERGY RELATED																	
Waste management																	0
Waste water management																	0
Other non-energy related																	0
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

١	44	litic	nal	com	ma	nte

Part III - My Sustainable Energy Action Plan

Sustainable Energy Action Plan	
1) Title	
2) Date of formal approval	
3) Decision body approving the plan	
4) SEAP webpage	
5) Business-as-Usual projections by 2020 (if applicable)	CO ₂ emissions t CO2 (eq.)/a Final energy consumption MWh/a
6) Methodological notes	
7) Estimates of the impacts of actions in 2020 in relation to:	BEI (option 1)

Part III - My Sustainable Energy Action Plan



Add/Update a Key Action

Sector	Pre-filled and non-editable na	me of sector	* r
Name *			
Area of intervention *			
Policy instrument *			
Origin of the action *			
Responsible body *			
Start time *			
End time *			
Status of implementation *			
Implementation cost [€]			
Estimates in 2020			
Energy savings [MWh/a]			
Renewable energy production [MWh/a]			
CO ₂ reduction [t/a]			

* mandatory fields

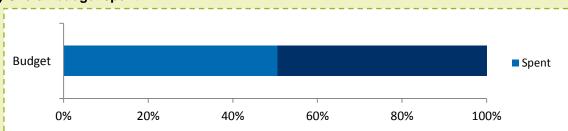
Your SEAP implementation progress

Graphical display of progress and results in a printable Synthesis Report

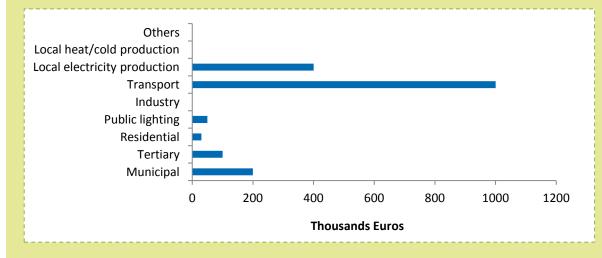
1) Status of implementation of actions



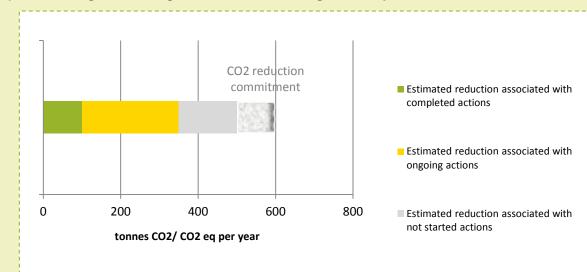
2) Overall budget spent

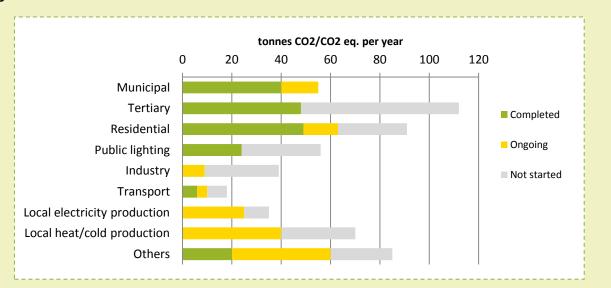


3) Money spent per sector



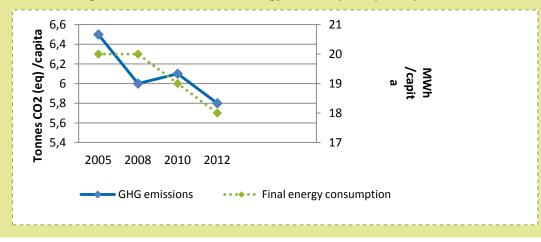
4) Estimated greenhouse gas emissions according to the implementation status of the actions



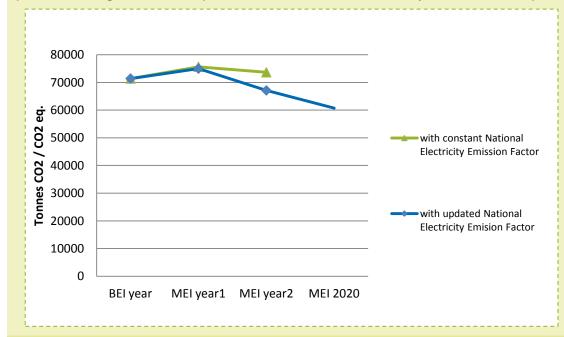


Your performance towards energy sustainability

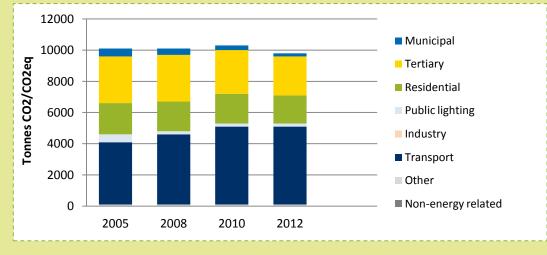
5) Greenhouse gas emissions and final energy consumption per capita



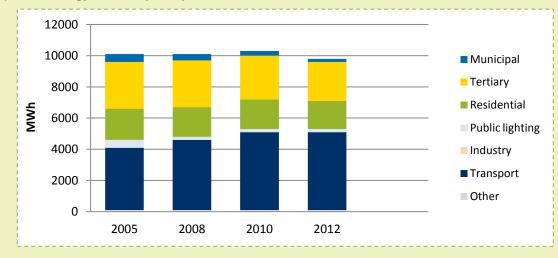
6) Greenhouse gas emissions (influence of the National Electricity Emission Factor)



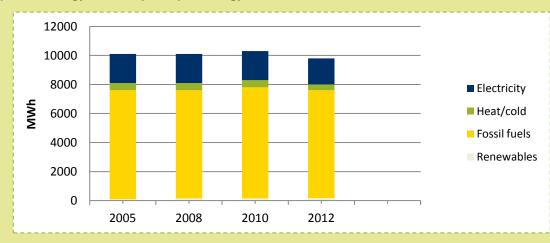
7) Greenhouse gas emissions per sector



8) Final energy consumption per sector



9) Final energy consumption per energy carrier



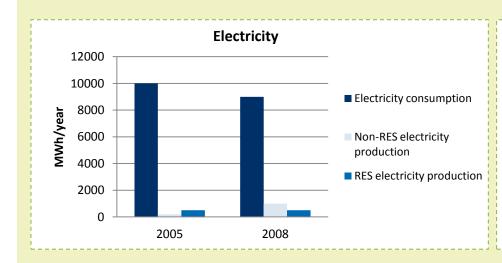
^{*} Renewables - for non-electricity uses.

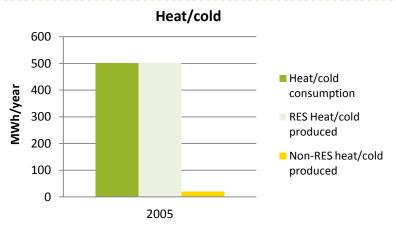
^{**} The energy mix of heat/cold and electricity is not identified.

10) Local energy production

Share of local energy production to overall final energy consumption

7%





Comments:

Categories

A A	REA OF INTERVENTION	B POLICY INSTRUMENT
A1 M	unicipal - Residential - Tertiary Buildings	B1 Buildings
A11	Building envelope	B11 Awareness raising / training
A12	Renewable energy for space heating and hot water	B12 Energy management
A13	Energy efficiency in space heating and hot water	B13 Energy certification / labelling
A14	Energy efficient lighting systems	B14 Energy suppliers obligations
A15	Energy efficient electrical appliances	B15 Energy / carbon taxes
A16	Integrated action (all above)	B16 Grants and subsidies
A17	Information and Communication Technologies	B17 Third party financing. PPP
A18	Behavioural changes	B18 Public procurement
A19	Other	B19 Building standards
Als	Outer	B110 Land use planning regulation
		B111 Not applicable
		B112 Other
		B112 Other
Λ2 D	ublic Lighting	B2 Public Lighting
A21	Energy efficiency	s.
A23	Integrated renewable power	37 11 3
A24	Information and Communication Technologies	B23 Third party financing. PPP
A25	Other	B24 Public procurement
		B25 Not applicable
		B26 Other
A O. I	Acceptance.	DO ladveto.
	dustry	B3 Industry
A31	Energy efficiency in industrial processes	B31 Awareness raising / training
A32	Energy efficiency in buildings	B32 Energy management
A33	Renewable energy	B33 Energy certification / labelling
A34	Information and Communication Technologies	B34 Energy performance standards
A35	Other	B35 Energy / carbon taxes
		B36 Grants and subsidies
		B37 Third party financing. PPP
		B38 Not applicable
		B39 Other
	unicipal - Public - Private Transport	B4 Transport
A41	Cleaner/efficient vehicles	B41 Awareness raising/training
A42	Electric vehicles (incl. infrastructure)	B42 Integrated ticketing and charging
A43	Modal shift to public transport	B43 Grants and subsidies
A44	Modal shift to walking & cycling	B44 Road pricing
A45	Car sharing/pooling	B45 Land use planning regulation
A46	Improvement of logistics and urban freight transport	B46 Transport / mobility planning regulation
A47	Road network optimisation	B47 Public procurement
A48	Mixed use development and sprawl containment	B48 Voluntary agreements with stakeholders
A49	Information and Communication Technologies	B49 Not applicable
A410	Eco-driving	B410 Other
A411	Other	

C Origin of the action

- C1 Local authority
 C2 Covenant Territorial Coordiantor
 C3 Other (national, regional,...)
 C4 Not possible to say

Categories

A5 Local Electricity Production		B5 L c	ocal Electricity Production
A51	Hydroelectric power	B51	Awareness raising / training
A52	Wind power	B52	Energy suppliers obligations
A53	Photovoltaics	B53	Grants and subsidies
A54	Biomass power plant	B54	Third party financing. PPP
A55	Combined Heat and Power	B55	Building standards
A56	Smart grids	B56	Land use planning
A57	Other	B57	Not applicable
		B58	Other
A6 L	ocal heat/cold Production	B6 L	ocal heat/cold Production
A61	Combined Heat and Power	B61	Awareness raising / training
A62	District heating/cooling plant	B62	Energy suppliers obligations
A63	District heating/cooling network (new, expansion, refurbishment)	B63	Grants and subsidies
A64	Other	B64	Third party financing. PPP
		B65	Building standards
		B66	Land use planning regulation
		B67	Not applicable
		B68	Other
A7 C	Other	B7 O	
A71	Urban regeneration	B71	Awareness raising / training
A72	Waste & wastewater management	B72	Land use planning
A73	Tree planting in urban areas	B73	Not applicable
A74	Agriculture and forestry related	B74	Other
A75	Other		