

# Sustainable Energy Action Plan (SEAP) template

This is a *working version for Covenant signatories* to help in data collection. However the *on line SEAP template* available in the Signatories Corner (password restricted area) at: <http://members.eumayors.eu/> is the only **REQUIRED** template that all the signatories have to fill in at the same time when submitting the SEAP in their own (national) language.

## OVERALL STRATEGY

### 1) Overall CO2 emission reduction target

(%) by **2020**

 [Instructions](#)

Please tick the corresponding box:

- Absolute reduction  
 Per capita reduction

### 2) Long-term vision of your local authority (please include priority areas of action, main trends and challenges)

Middlesbrough's Climate Change Community Action Plan aims to:

#### Aims

- To reduce Middlesbrough's contributions to climate change
- To increase Middlesbrough's preparedness for the impacts of climate change
- To improve people's awareness and understanding of climate change and its impacts
- To encourage and support behavioural change to help tackle climate change.

#### Objectives

- To contribute to the achievement of climate change National Indicator targets.
- To prepare, deliver, monitor, and report on annual work programmes on tackling climate change
- To engage all sectors of the Middlesbrough community in tackling climate change
- To contribute to sub-regional, regional, and national initiatives to tackle climate change
- To support potential opportunities for businesses and the wider Middlesbrough community that result from climate change.

Middlesbrough's long term aim is an 80% reduction of CO2 based on a 2005 baseline.

### 3) Organisational and financial aspects

Coordination and organisational structures created/assigned	The Middlesbrough Climate Change Partnership was formed in 2003. It brings together organisations from across the town to act on climate change, projects from the annual action plans are estimated to have reduced emissions in Middlesbrough by 50,000 tonnes of CO2.
Staff capacity allocated	One full time member of staff from Middlesbrough Council's Environmental Sustainability team is dedicated to climate change mitigation work. However, certain aspects of climate change work are undertaken by many members of staff throughout the council.
Involvement of stakeholders and citizens	The Local Strategic Partnership is involved in the promotion of climate change mitigation work. Organisations from Middlesbrough's Climate Change Partnership are responsible for many of the projects that focus on CO2 reductions. Middlesbrough Environment City is a significant partner in the communication and education of climate change to local residents.
Overall estimated budget	One Officer's salary from the Environmental Sustainability team. Occasional external funding from Government sources, for example, £400,000 from the Low Carbon Communities Fund from the Department of Energy and Climate Change.
Foreseen financing sources for the investments within your action plan	Potential funding from central council budget. Funding from central Government. Individual organisations financing action through schemes such as the Carbon Reduction Commitment.
Planned measures for monitoring and follow up	The Environmental Sustainability team and Middlesbrough Climate Change Partnership will be the main bodies responsible for monitoring progress on carbon dioxide emission reductions. National Indicators 185 (CO2 reduction from local authority operations) and 186 (per capita emissions in the LA area) will provide an annual update on progress in reducing emissions.

Go to the [second part of the SEAP template ->](#) dedicated to your Baseline Emission Inventory!

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## BASELINE EMISSION INVENTORY

### 1) Inventory year

For Covenant signatories who calculate their CO2 emissions per capita, please precise here the number of inhabitants during the inventory year:



### 2) Emission factors

Please tick the corresponding box:

- Standard emission factors in line with the IPCC principles
- LCA (Life Cycle Assessment) factors

Emission reporting unit

Please tick the corresponding box:

- CO2 emissions
- CO2 equivalent emissions

### 3) Key results of the Baseline Emission Inventory

Green cells are compulsory fields

Grey fields are non editable

#### A. Final energy consumption

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

Category	FINAL ENERGY CONSUMPTION [MWh]															Total	
	Electricity	Heat/cold	Fossil fuels								Renewable energies						
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																	
Municipal buildings, equipment/facilities	23637189		63745075		815251												88197515
Tertiary (non municipal) buildings, equipment/facilities																	0
Residential buildings	224264		997135							18379							1239778
Municipal public lighting	10842313																10842313.17
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	542792		411081							141600							1095473
<b>Subtotal buildings, equipments/facilities and industries</b>	35246558	0	65153291	0	815251	0	0	0	0	159979	0	0	0	0	0	0	101375079.2
<b>TRANSPORT:</b>																	
Municipal fleet				18640		716603	81136			91797							908176
Public transport																	0
Private and commercial transport										1230000							1230000
<b>Subtotal transport</b>				18640	0	716603	81136	0	0	1321797							2138176
<b>Total</b>	70493116	0	130306582	37280	1630502	1433206	162272	0	0	2963552	0	0	0	0	0	0	4276352

Municipal purchases of certified green electricity (if any) [MWh]:	
CO2 emission factor for certified green electricity purchases (for LCA approach):	

#### B. CO2 or CO2 equivalent emissions

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

Category	CO2 emissions [t]/ CO2 equivalent emissions [t]															Total
	Electricity	Heat/cold	Fossil fuels								Renewable energies					
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal	
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																

Municipal buildings, equipment/facilities	12528		11793		212											24533
Tertiary (non municipal) buildings, equipment/facilities																0
Residential buildings	118860		184470							5330						308660
Municipal public lighting	5746															5746
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	287680		76050							35400						399130
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>424814</b>	<b>0</b>	<b>272313</b>	<b>0</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40730</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>738069</b>
<b>TRANSPORT:</b>																
Municipal fleet				28		1885	187			245						
Public transport																
Private and commercial transport										329640						329640
<b>Subtotal transport</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>1885</b>	<b>187</b>	<b>0</b>	<b>0</b>	<b>329885</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>329640</b>
<b>OTHER:</b>																
Waste management																
Waste water management																
Please specify here your other emissions																
<b>Total</b>	<b>406540</b>	<b>0</b>	<b>260520</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>370370</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1037430</b>

<b>Corresponding CO2-emission factors in [t/MWh]</b>	
CO2 emission factor for electricity not produced locally [t/MWh]	

#### C. Local electricity production and corresponding CO2 emissions

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

Locally generated electricity (excluding ETS plants, and all plants/units > 20 MW)	Locally generated electricity [MWh]	Energy carrier input [MWh]											CO2 / CO2- eq emissions [t]	Corresponding CO2- emission factors for electricity production in [t/MWh]		
		Fossil fuels					Steam	Waste	Plant oil	Other biomass	Other renewable	other				
		Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Wind power																
Hydroelectric power																
Photovoltaic																
Combined Heat and Power																
Other Please specify: _____																
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### D. Local heat/cold production (district heating/cooling, CHPs...) and corresponding CO2 emissions

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

Locally generated heat/cold	Locally generated heat/cold [MWh]	Energy carrier input [MWh]											CO2 / CO2- eq emissions [t]	Corresponding CO2- emission factors for heat/cold production in [t/MWh]		
		Fossil fuels					Waste	Plant oil	Other biomass	Other renewable	other					
		Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power																
District Heating plant(s)																
Other Please specify: _____																
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### 4) Other CO2 emission inventories

If other inventory(ies) have been carried out, please click [here ->](#)

Otherwise go to the [last part of the SEAP template ->](#) dedicated to your Sustainable Energy Action Plan

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<p>Industries (excluding industries involved in the EU Emission trading scheme - ETS) &amp; Small and Medium Sized Enterprises (SMEs)</p> <p>Other - please specify: _____</p>	<p>1. The Carbon Reduction Commitment energy efficiency scheme affects all organizations with an energy use of at least 6,000MWh. Combined with changes in behaviour and increasing energy efficiency a 20% saving in gas is expected.</p> <p>2. The Carbon Reduction Commitment should also see a reduction in commercial electricity use. Along with the introduction of the EU's Product Policy and behaviour change, a 10% reduction in electricity use is expected.</p> <p>3. Middlesbrough Green Business Project. This provides support and guidance to SMEs across Middlesbrough in reducing energy and resource use.</p> <p>4. The UK Government expects 30% of the UK's electricity to be generated by renewable sources by 2020. Again, we have used a more conservative 15% reduction in the carbon intensity of electricity. CO2 saved</p>	<p>1. Industry and Commercial organisations, Middlesbrough Council, Government</p> <p>2. Industry and Commercial organisations, Middlesbrough Council, Government</p> <p>3. Middlesbrough Council, Tees Valley Green Business network</p> <p>4. Government</p>	<p>1. 2010-2020</p> <p>2. 2010-2020</p> <p>3. 2010-2020</p> <p>4. 2010-2020</p>	<p>1. 85828</p> <p>2. 23113</p>	<p>1. 79800</p> <p>2. Included in above</p> <p>3. 0</p> <p>4. 43423</p>		
<b>TRANSPORT:</b>							48700
Municipal fleet	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
Public transport							
Private and commercial transport	<p>1. Based on the results of a campaign to reduce personal car use in a neighbouring authority, a 4% reduction in car use is assumed.</p> <p>2. Based on improvements in the fuel efficiency of cars, there is an expectation that emissions from private and commercial vehicles will reduce by 13%</p> <p>3. A switch to 10% of road fuels from biofuels is based on EU Directive 2009/28/EC, the promotion of the use of renewable sources</p> <p>4. Based on a One North East study into electric vehicle use within the region in 2020, a mid range scenario suggests the percentage of fuel displaced by electric vehicles would be in the region of 3%</p>		<p>1. 2010-2020</p> <p>2. 2010-2020</p> <p>3. 2010-2020</p> <p>4. 2010-2020</p>	<p>1. 0</p> <p>2. 4000000</p>	<p>1. 9963</p> <p>2. 32300</p> <p>3. 1787</p> <p>4. 4650</p>		
Other - please specify: _____							
<b>LOCAL ELECTRICITY PRODUCTION:</b>							2.12
Hydroelectric power	Action 1: _____ Action 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
Wind power							
Photovoltaic	2. From 2010, Erimus Housing intends to install solar PV on 115 homes.	Erimus Housing	<p>1. 2005-2010</p> <p>2. 2010-2020</p>	<p>602,000</p> <p>2.5kWp per home (estimated)</p>	<p>2125 kWh</p> <p>2. 124</p>		
Combined Heat and Power							
Other - please specify: _____							
<b>LOCAL DISTRICT HEATING / COOLING, CHPs:</b>							23000
Combined Heat and Power	Action 1: _____ Action 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
District heating plant	<p>An initial study of district heating potential in Middlesbrough has suggested that 6MWh of heat could be supplied to buildings in the Middlehaven area and the town centre. A separate study has concluded that the combined domestic and industrial heating requirement is 62 MWh. For this SEAP scenario, it has been assumed that 30% of the community heating potential (19MWh) will be met by district heating in 2020.</p>	<p>Regional collaboration - Public and private sector</p>	<p>2010 -2010</p>	<p>estimated cost for a 6MWh system is between £9 to 12 million.</p>	<p>19 23,000</p>		
Other - please specify: _____							
<b>LAND USE PLANNING:</b>							
Strategic urban planning	<p>Middlesbrough Council will follow national planning guidelines. The Code for Sustainable homes will require all new built homes from 2016 to be zero carbon</p>	<p>Government, Local Authority Planning department, private developers.</p>	<p>2016</p>	<p>N/A</p>	<p>1: _____ 2: _____ ...</p>		
Transport / mobility planning							
Standards for refurbishment and new development							

Other - please specify: _____											
<b>PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:</b>											
Energy efficiency requirements/standards	Action 1: _____ Action 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
Renewable energy requirements/standards											
Other - please specify: _____											
<b>WORKING WITH THE CITIZENS AND STAKEHOLDERS:</b>											
Advisory services	1. Promotion of energy saving advice to businesses through the Green Business Network	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
Financial support and grants	2. Promotion of energy saving advice to local residents										
Awareness raising and local networking	3. Consultation with residents and businesses in Middlesbrough over the adoption of a One Planet Living approach to sustainability for the town										
Training and education	4. All schools in Middlesbrough to follow the Sustainable School scheme by 2020.										
Other - please specify: _____											
<b>OTHER SECTOR(S) Please specify: _____</b>											
Other - Please specify: _____	Action 1: _____ Action 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...	1: _____ 2: _____ ...		
										<b>TOTAL:</b>	<b>289302.12</b>

3) Web address

Direct link to the webpage dedicated to your SEAP (if any)

[www.middlesbrough.gov.uk/climatechange](http://www.middlesbrough.gov.uk/climatechange)

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