This is a <u>working version for Covenant signatories</u> to help in data collection. However the <u>on-line SEAP template</u> available in the Signatories' Corner (password restricted area) at: http://members.eumayors.eu/

is the only RFOLURED template that all the signatories have to fill in at the same time when submitting the SFAP in their own (national) language

### **OVERALL STRATEGY**

1)	Overall CO2 emission reduction target	20.01 (%) by <b>2020</b>	? 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)	
	To reduce Darlington's contribution to climate change and to minimise the ad	verse impacts of climate change on Darlington's community.	
3)	Organisational and financial aspects		
	Coordination and organisational structures created/assi	igned The Covenant of Mayors SEAP has been developed by the Climate Change working group within the Local Authority, in conjunction with the Greener Themed Partnership.	l Group of the Darlington Local Strategic
	Staff capacity allo	Within Sustainable Development and Climate Change Officer role (0.5 FTE)	
	Involvement of stakeholders and cit	The Tees Valley Climate Change Strategy was developed through consultation over a period of 18 months and adopted by the Council's Cabinet in June 2010. with partners through the Greener Themed Group.	The SEAP has been through consultation
	Overall estimated bu	udget The estimated budget for the delivery of the SEAP is £14.2 million between 2010 and 2020 and will be met by a range of sources.	
	Foreseen financing sources for the investments within your action	plan	
	Planned measures for monitoring and follo	w up Annual monitoring of the SEAP in line with the requirements of the Covenant of Mayors.	

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

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### **BASELINE EMISSION INVENTORY**

Inventory year     For Covenant signatories who calculate their CO2 emission	2005 ons per capita, please precise here the number of inhabitants <u>during the inventory year</u> :	98,800	? Instructions
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		

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.

							FINAL E	NERGY CO	NSUMPTI	ON [MWh]						
						Fossil f	fuels					Re	newable ene	rgies		
Category	Electricity	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 AND INDUSTRIES:																
Municipal buildings, equipment/facilities																
Tertiary (non municipal) buildings, equipment/facilities																
Residential buildings	185,264		795,730							45704						1026718
Municipal public lighting																
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	305509		710973							238320						1254802
Subtotal buildings, equipments/facilities and industries	490773		1506703							284044						2281520
TRANSPORT:																
Municipal fleet																
Public transport																
Private and commercial transport										653209						
Subtotal transport										653209						653209
Total																2934729

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.

						(	O2 emissio	ns [t]/ CO2	equivale	nt emissions [1	t]					
						Fossil 1	fuels					Re	newable ene	rgies		
Category	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 AND INDUSTRIES:																
Municipal buildings, equipment/facilities																
Tertiary (non municipal) buildings, equipement/facilities																1
Residential buildings	97190		147210							13260						258660
Municipal public lighting																
Industries (excluding industries involved in the EU Emission trading																
scheme - ETS)	161920		131530							59580						353020
Subtotal buildings, equipments/facilities and industries	260110		278740							72840						611680
TRANSPORT:																
Municipal fleet																
Public transport																<u> </u>
Private and commercial transport										175060						175060
Subtotal transport										175060						175060
OTHER:																
Waste management																
Waste water management																
Please specify here your other emissions																
Total																786740
									•							İ
Corresponding CO2-emission factors in [t/MWh]																I
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	Locally generated			CO2 / CO2- eq	Corresponding CO2- emission factors for									
(excluding ETS plants , and all plants/units > 20 MW)	electricity			Fossil fuels			Steam	Waste	Plant oil	Other	Other	other	emissions	electricity production in
	[MWh]	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Steam	waste	Plant oil	biomass	renewable	other	[t]	[t/MWh]
Wind power														
Hydroelectric power														
Photovoltaic														
Combined Heat and Power														
Other														
Please specify:														
Total														

### 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				Ene	rgy carrier i	nput [MW	h]				CO2 / CO2- eq	Corresponding CO2- emission factors for
Locally generated heat/cold	heat/cold			emissions	heat/cold production in								
	[MWh]	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Waste	Plant oil	biomass	renewable	other	[t]	[t/MWh]
Combined Heat and Power													
District Heating plant(s)													
Other													
Please specify:													
Total													

### 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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### **EMISSION INVENTORY (2)**

1)	Inventory year		2007		 2 Instructions
	For Covenant signatories who calculate their CO2 emissions per capita, please	e pre	se here the number of inhabitants <u>during the inventory year</u> :	100,000	
21	Emission factors				
41	EIIIISSIOII Idctors				
	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		

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.

							FINAL E	NERGY CO	NSUMPTI	ON [MWh]						
						Fossil f	fuels					Re	newable ene	rgies		
Category	Electricity	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 AND INDUSTRIES:																
Municipal buildings, equipment/facilities																
Tertiary (non municipal) buildings, equipment/facilities																
Residential buildings	190000		738378							42828						971206
Municipal public lighting																
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	307925		600378							236240						1144543
Subtotal buildings, equipments/facilities and industries	497925		1338757							279068						2115749
TRANSPORT:																
Municipal fleet																
Public transport																
Private and commercial transport																
Subtotal transport										637239						637239
Total																2752988

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.

							O2 emissio	ns [t]/ CO2	equivale	nt emissions [	t]					
				1		Fossil f	uels					Re	newable ene	rgies		
Category	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 AND INDUSTRIES:																
Nunicipal buildings, equipment/facilities																
ertiary (non municipal) buildings, equipement/facilities																
esidential buildings	100700		136600							12420						24972
Nunicipal public lighting																
ndustries (excluding industries involved in the EU Emission trading																
cheme - ETS)	163200		111070							59060						33333
ubtotal buildings, equipments/facilities and industries	263900		247670							71480						58305
RANSPORT:																
Aunicipal fleet																
ublic transport																
rivate and commercial transport																
ubtotal transport										170780						17078
OTHER:																
Vaste management																
Vaste water management																
lease specify here your other emissions																
otal																753830

Corresponding CO2-emission factors in [t/MWh]								
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	Energy carrier input [MWh]					Foscil fuels Other Other						CO2 / CO2- eq emissions	Corresponding CO2- emission factors for electricity production in
	[MWh]	Natural gas			Lignite	Coal	Steam	Waste	Plant oil	biomass	renewable	other	[t]	[t/MWh]
Wind power														
Hydroelectric power														
Photovoltaic														
Combined Heat and Power														
Other														
Please specify:														
Total														•

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

Go to the last part of the SEAP template -> dedicated to your Sustainable Energy Action Plan!

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### SUSTAINABLE ENERGY ACTION PLAN

Darlington SEAP					(3)	instructions				
Date of	formal approval Authority appro	oving the plan								
Key elements of your Sustainable Energy Action Plan										
Green cells are compulsory fields	Grey fields are non editable		]							
SECTORS & fields of action	KEY actions/measures <u>per field of action</u>	Responsible department, person or company (in case of involvement of 3rd parties)		Estimated costs  per action/measure	Expected energy saving <u>per</u> <u>measure</u> [MWh/a]	Expected renewable energy production per measure [MWh/a]	Expected CO2 reduction per measure [t/a]	Energy saving target per sector [MWh] in 2020	renewable energy production target per sector [MWh]	CO2 reduction target per sector [t in 2020
BUILDINGS, EQUIPMENT / FACILITIES & INDUSTRIES:										85,96
Municipal buildings, equipment/facilities	Action 1. Darlington Borough Council has developed a Carbon Management Plan (CMP) which sets a target to reduce carbon emissions from its own operations and services by 25% by 2014 from a 2008 baseline.	Carbon Management Team	July 2009 - March 2014							
Tertiary (non municipal) buildings, equipment/facilities			,							
	Action 1. Cavity wall insulation			380,000	3,012	2	613			
	Action 2. Loft insulation			286,000	1,752	2	356			
	Action 3. Double Glazing			4,000,000	3,306	5	673			
	Action 4. Solid Wall Insulation			3,750,000	12,018	3	2,445			
	Action 5. Ground Source Heat Pumps			1,500,000	3,285	5	657			
	Action 6. Installation of Solar thermal on domestic properties	1		2,000,000	908	3	185			
	Action 7. Installation of Solar PV on domestic properties	1		1,584,000	528.75	,	270			
	Action 8. 10% domestic gas reduction by new boiler installation and behaviour change			0	91,777	7	18,674			
Residential buildings	Action 9. 10% domestic electricity reduction by the introduction of EU products policy	Council and Private sector partners		0	34,786	5	17,741			
nesidential sumanigs	Action 1. Actions are included within Municipal Buildings and the Council Carbon	Council and Trivate Sector partiers	,				17,741			
Municipal public lighting	Management Plan	Dave Winstanley, Highways	Up to 2020	2,000,000	432	2	220			
	Action 1. 20% reduction of commercial gas use by the introduciton of CRC, behavioural change and efficiency improvements			0	164,002.20	)	33,369			
Industries (excluding industries involved in the EU Emission trading scheme - ETS) & Small and Medium Sized Enterprises (SMEs)	Action 2. 10% reduction of commercial electricity use by the introduction of CRC, EU products policy and behavioural change	Private sector partners	Up to 2020	0	21,094.78		10,758			
Other - please specify:		Tivate sector partiers	Op 10 2020		,		10,730			
TRANSPORT:										45,23
	Action 1. Actions relating to Municipal Fleet are included in the CMP.									-3,23
Municipal fleet		lan Thompson, Environmental Services	July 2009 - March 2014							
	Action 1. A 4% reduction in fuel use from behaviour change			0			8,353			
	Action 2. Vehicle transport efficiency improvements			0			25,059			
Rublic transport	Action 3. Replace 10% of fuel with biofuel  Action 4. Electric vehicle fuel displacement	n.;	U- 4- 2020	0			9,001			
Public transport Private and commercial transport	readit 4. Decare venicle raci displacement	Private sector partners	Up to 2020	0	1		2,823			
Other - please specify:										
LOCAL ELECTRICITY PRODUCTION:										
Hydroelectric power										



Wind power	1		l I					
Photovoltaic								
Combined Heat and Power								
Other - please specify:								
LOCAL DISTRICT HEATING / COOLING, CHPs:								2231
Combined Heat and Power	Town Centre Fringe feasibility study		2,333,500	2,247		2231.1		
District heating plant								
Other - please specify:								

LAND USE PLANNING:						_		1	
	Action 1. To complete the new Core Strategy as part of the LDF which outlines		1						
Strategic urban planning	the most sustainable locations for new housing, employment and transport	nii n-i nnc	2044	Mark hardles Coursell					
	development over the next 15 years  Action 2: To prepare and adopt other DPDs which complete the up to date	Planning Policy, DBC	2011	Met by the Council	<del>                                     </del>				
	development plan for Darlington								
		Planning Policy, DBC	2013	Met by the Council					
	Action 3: To prepare Planning Obligations SPD				1				
	Action 4. Town Centre Fringe developments -	Planning Policy, DBC	2011	Met by the Council	<del>                                     </del>				
	Action 4. Town centre rinige developments -	Chief Executive(Regeneration),		Met by the Council, One North					
		DBC		East, HCA					
Transport / mobility planning	Develop a new Local Transport Plan (LTP3) to deliver policies and measures that	İ			1				
g	contribute to reducing carbon emissions.	Transport Policy, DBC	2011	Met by the Council					
Chandards for refushishment and nous development	Action 1. Code for Sustainable Homes standards adopted within the Core	Transport Policy, DBC	2011	iviet by the council	1		Included		
Standards for refurbishment and new development	Strategy and LDF	Planning Policy, Development					elsewhere under		
	*	Control, DBC	2011	Met by the Council			specific actions		
Other - please specify:	_		1						
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:								1	
	Action 1. Included in Municipal buildings actions within the Council's CMP								
Energy efficiency requirements/standards	· · ·								
3, 3, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,		Carbon Management Team	July 2009 - March 2014	Included in the CMP finance			Included		
Renewable energy requirements/standards	Action 2. Included in Municipal buildings actions within the Council's CMP						elsewhere under		
		Carbon Management Team	July 2009 - March 2014				specific actions		
Other - please specify:					1				
								1	_
WORKING WITH THE CITIZENS AND STAKEHOLDERS:									
Advisory services	Action 1. Continue to work in partnership with national and regional advisory bodies to promote sustainable energy to residents and businesses.						Included under		
Advisory services	bodies to promote sustainable energy to residents and businesses.	HEAT team, DBC and partners					other actions		
Financial support and grants	Included in specific actions								
5	Action 1. Develop a Communications Strategy for communicating climate change				ł				
Awareness raising and local networking	awareness across the Borough.	Climate Change lead and DBC Comms Team							
	Action 2. Link with EU, national and regional awareness raising campaigns				ł				
	rector 2. Enk with Ed, national and regional awareness rusing earnpuigns	Climate Change lead and DBC Comms Team					Not reported as		
Training and education	Included in specific actions			+			counted under		
Truming and education		Climate Change lead and DBC					behavioural		
		Comms Team			<del>                                     </del>		change		
Other - please specify:	_		1						
			1						
OTHER SECTOR(S) - Please specify:									30,000
Other - Please specify: National energy targets	Action 1. Decarbonisation of the national grid. The national government has a								22,000
	target to produce around 30% of grid electricity from renewables by 2020 by								
	<ul> <li>substantially increasing the requirement for electricity suppliers to sell renewable electricity. If a conservative approach is taken and the carbon</li> </ul>								
		1	I	1	1				
	intensity reduciton of the grid reached half of the anticipated amount by 2020								
	intensity reduciton of the grid reached half of the anticipated amount by 2020 then the estimated savings would be in the region of 30ktpa and this would								
	intensity reduciton of the grid reached half of the anticipated amount by 2020 then the estimated savings would be in the region of 30ktpa and this would	All partners	Up to 2020				30,000		

### 3) Web address

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

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