

Sustainable Energy and Climate Action Plan Template

The Sustainable Energy and Climate Action Plan (SECAP) template and its monitoring fields constitute the reporting framework of the Covenant of Mayors initiative. It has been developed by the Covenant of Mayors and Mayors Adapt Offices - together with the Joint Research Centre of the European Commission - and in collaboration with a group of practitioners from local and regional authorities. This Excel-based template is an offline working version of the official online template which has to be completed in English and submitted online via "My Covenant": http://www.eumayors.eu/sign-in en.html. The online vesion of this template should be available as of 2017. Please note that it is not possible to import the data entered in this Excel into the online platform.



Reporting Guidelines

SEAP quidebook

Urban Adaptation Support Tool

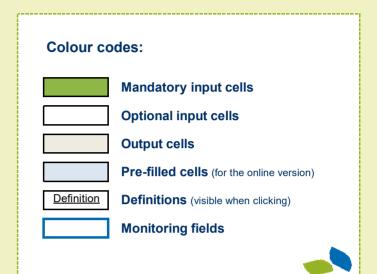


Commitments: 2020 CO₂ reduction

2030 CO₂ reduction

ona-term CO2 reduction

Climate Adaptation





Template Structure & Minimum Reporting Requirements:

		Minimum	Reporting Re	quirements	
	Template Structure	At the registration stage	Within 2 years	Within 4 years (and then every 2 years)	Link to Tab
	Strategy	optional	*	*	
<u> </u>	Emission Inventories	optional	* (BEI)	* (MEI every 4 years)	-
Jatic	Mitigation Actions	optional	*	*	
Mitigation	Mitigation Report				\Rightarrow
_	Monitoring Report				\Rightarrow
	Adaptation Scoreboard	*	*	*	-
uo	Risks and Vulnerabilities	optional	*	*	
Adaptation	Adaptation Actions	optional	optional	* (min. 3 Benchmarks)	-
Ad	Adaptation Report				-
	Adaptation Indicators				-

* mandatory

Objectives

- → IDENTIFY & ASSESS local climate and energy challenges and priorities
- → MONITOR & REPORT progress towards commitments
- → INFORM & SUPPORT decision-makers
- \rightarrow **COMMUNICATE** results to general public
- → **ENABLE** self-assessment & **FACILITATE** experience-sharing with peers
- → **DEMONSTRATE** local achievements to policy-makers



Developed by: Covenant of Mayors & Mayors Adapt Offices, Joint Research Centre of the European Commission



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01 1												
Strategy												□ номе
Strategy												
1) <u>Vision</u>	Szekszárd w effects. In or future.	vishes to price to ens	preserve and fur sure this future o	ther develop its development, it	s natural and constr assesses its energ	ucted environment to have a livable cit y consumption, emissions and potenti	v with high qua al renewable e	ality services, also being attractive energy sources and takes them inf	e for tourism, while operating it to account in planning and ded	having the least harmful environ ision making processes that aft	nmental ect the 236 chars left	
2) Commitments				M	litigation							
	CO ₂ Target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year						
	20%	%	2020	2011	absolute							
		%	2030									
			[drop -down]	[drop -down]	[drop -down]							
						Adaptation						
	Goal						Unit (% or ot					
								[drop -down] [drop -down]				
	① Add as ma	any rows a	s necessary.					[drop -down] [drop -down]				
		,	- · · · · · · · · · · · · · · · · · · ·									
2) Coordination and organizational												
Coordination and organisational structures created/assigned												
											700 chars left	
4) Staff capacity allocated						MONITOR	ING					
		Туре			Plan Preparation <u>Full-time equiva</u>	Plan Implementation						
	Local autho			х	0,5	Х						
	Covenant C	coordinat	<u>or</u>									

700 chars left

External consultant

Total

1

1,5

① Select x for the ones that are applicable.

5) Involvement of stakeholders and	Туре		Stak	keholders involved		Level of involvement							
citizens	Local athority's staff	х	<u> </u>			Medium							
	External stakeholders	^											
	at local level Stakeholders	Х				Low							
	Stakeholders at other levels of governance					[drop-down]							
		① Select x for th	ne ones that are applicable.				_						
										700 chars left			
Overall budget for implementation				Budget foreseen for plan	implementation	(C)						Budget spent so fa	r for r
and financing sources	Source		Mitigation	Budget foreseen for plan		Adaptation			Source		Mitigatio		loi p
	Cource		Investment (€)	Non-investment (€)		Investment (€)	Non-investment (€)		Cource		Investment (€)		
	Local Authority's own resources	х	<u>(4)</u>	<u>ivon-mvestment</u> (e)	[Select x]	<u>(4)</u>	<u>INOTI-ITIVE SUTIENTE</u> (C)	Local Author	ority's own resources	х	(s)	<u>iton-investment</u> (e	,
	Other actors:	Х		0	[Select x]			Other actor		X	0	0	+
	- National Funds & Programmes	x			[Select x]				Funds & Programmes	Х			Ti
	- EU Funds & Programmes	x			[Select x]				s & Programmes	х			
	- Private	х			[Select x]			- Private		х			
	Total		0	0		0	0	Total			0	0	
		① Select x for th	ne ones that are applicable.							Select x for	the ones that are ap	pplicable.	
	Time period	2011	2020		10 years			Time perior	i	2011	2016		
Monitoring process										700 chars left			
Monitoring process	Please rate (little/fair/strong/not applic	cable) the main p	problems encountered during	your action plan implementa	ation, either overal	or by sector:]	MONITORING		
Monitoring process	Please rate (little/fair/strong/not applic	cable) the main p	oroblems encountered during	your action plan implementa All sectors	ation, either overal	or by sector: Municipal	Tertiary	Residential	Transport]			
Monitoring process	Please rate (little/fair/strong/not applic	cable) the main p	problems encountered during the second secon	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Please rate (little/fair/strong/not applic			All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Please rate (little/fair/strong/not applic	Absence of /	Limited financial sources weak regulatory framework Lack of technical expertise	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process		Absence of /	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process		Absence of / Lack of litical support at	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders t other administrative levels	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Monitoring process	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Assessment of the Adaptation	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	700 chars left			
Assessment of the Adaptation Options	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	Adaptati			
Assessment of the Adaptation Options Strategy in case of extreme climate	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	Adaptati			
Monitoring process Assessment of the Adaptation Options Strategy in case of extreme climate events	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	Adaptati			
Assessment of the Adaptation Options Strategy in case of extreme climate	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	Adaptati			
Assessment of the Adaptation Options Strategy in case of extreme climate	Lack of pol	Absence of / Lack of litical support at Changes ir compability with	Limited financial sources weak regulatory framework Lack of technical expertise f support from stakeholders to ther administrative levels in the local political priorities national policy orientations	All sectors	ation, either overal		Tertiary	Residential	Transport	Adaptati			

Emission Inventory		⊠ номе
Baseline Emission Inventory		
1) <u>Inventory year</u>	2011	
Number of inhabitants in the inventory year	34296	
3) <u>Emission factors</u>	 ☑ IPCC □ LCA (Life Cycle Assessment) 	
4) Emission reporting unit	 □ tonnes CO₂ ☑ tonnes CO₂ equivalent 	
5) Methodological notes		4000 1 1 1
		1000 chars left

A. Final energy consumption

① Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

							FINA	AL ENERG	Y CONSUMPT	ION [MWh]						
						Fossi	l fuels					Ren	ewable ener	gies		
Sector	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	1483	5481	5532	0	0	0	0	0	0	0	0	0	0	0	0	12496
Tertiary (non municipal) buildings, equipment/facilities	33686	15514	69661	0	0	0	0	0	0	0	0	0	0	0	0	118861
Residential buildings	35268	47790	93237	0	0	0	0	0	887	0	0	0	48804	0	0	225987
Public lighting	1452	0	0	0	0	0	0	0	0	0	0	0	0			1452
Industry Non-ETS																
ETS (not recommended)																
Subtotal	71889	68785	168431,0896	0	0	0	0	0	886,5	0	0	0	48804,4448	0	0	358796,034
TRANSPORT																
Municipal fleet	0	0	0	0	0	178	40	0	0	0	0	9	0			227
Public transport						16890						306				36413
Private and commercial transport	0	0	0	0	0	67782	28103	0	0	0	0	1585	0			97470
Subtotal			0		0	84850,28	28142,925	0		0		1900,050222				114893,253
OTHER																
Agriculture, Forestry, Fisheries		_														0
TOTAL	71889	68785	168431,0896	0	0	84850,28	28142,925	0	886,5	0	0	1900,050222	48804,4448	0	0	473689,287

Covenant Key Sectors

B. Energy supply

① Hide sections or rows as appropriate to your emission inventory.

B1. Municipal purchases of certified green electricity

Municipal purchases of certified green electricity	Renewable electricity purchased [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Certified green electricity purchased		

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants (ETS and large-scale plants > 20 MWe not recommended)	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
TOTAL		0	0

B3. Local/distributed electricity production

	Electricity pr	oduced [MWh]	Energy carrier input [MWh]											. emissions [t]
Local electricity production plants (ETS and large-scale plants > 20 MW not recommended)	Liectricity pr	oduced [WWWII]		Fossil fuels									002700260	. emissions [t]
	from	from non-						Waste	Plant oil	Other	Other	Other	Fossil	Renewable
	renewable	renewable	Natural gas	Liquid gas	Heating oil	Lignite	Coal		biomass	renewable		sources	sources	
	sources	sources											554555	554.555
Combined Heat and Power														
Other														
TOTAL	0				0			0					0	

B4. Local heat/cold production

	Heat/cold pre	oduced [MWh]					Energy car	rier input	[MWh]				CO. / CO. en	. emissions [t]
	ricatooia pro	oddoca [iii vvii]		F	ossil fuels								002700204	. Cimosiono [t]
Local heat/cold production plants	from renewable sources	from non- 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)			54345										10975,5162	
Other														
TOTAL	0	0 0 5	54345		0			0					10975,5162	

C. CO₂ emissions

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

Click here to visualise fuel emission factors

Electrici	ty					Fossi			Rer	ewable ener	gies				
<u>National</u>	Local	Heat/cold	Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal
0,360	0,360	0,228	0,202	0,000	0,000	0,171	0,249	0,000	0,346	0,000	0,000	0,000	0,007	0,000	0,000

C2. Please complete in case non-energy related sectors are included:

Non-energy related sectors	CO₂ eq. emissions [t]
Waste management	
Waste water management	
Other non-energy related	

Emission Inventory

									CO ₂	emissions	[t] / CO ₂ eq. (emissions [t]						
								Fossi	fuels					Re	newable ene	rgies		
	Sector		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																
۹	Municipal buildings, equipment/facilities		534	1247	1117	0	0	0	0	0	0	0	0	0	0	0	0	2898
۹	Tertiary (non municipal) buildings, equip	ment/facilities	12127	3530	14069	0	0	0	0	0	0	0	0	0	0	0	0	29726
٦	Residential buildings		12696	10875	18830	0	0	0	0	0	307	0	0	0	329	0	0	43037
۹	Public lighting		523	0	0	0	0	0	0	0	0	0	0	0	0	0	0	523
		Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Industry	ETS (not recommended)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal		25880	15653	34016	0	0	0	0	0	307	0	0	0	329	0	0	76185
٦	TRANSPORT																	
	Municipal fleet		0	0	0	0	0	30	10	0	0	0	0	0	0	0	0	40
	Public transport		0	0	0	0	0	2880	0	0	0	0	0	0	0	0	0	2880
	Private and commercial transport		0	0	0	0	0	11558	7011	0	0	0	0	0	0	0	0	18569
	Subtotal		0	0	0	0	0	14468	7021	0	0	0	0	0	0	0	0	21489
	OTHER																	
	Agriculture, Forestry, Fisheries		0	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		25880	15653	34016	0	0	14468	7021	0	307	0	0	0	329	0	0	97674

Covenant Key Sectors

Additional comments

① Copy as many "MEI" tabs for Monitoring Emission Inventories as necessary.

1) Inventory year

2016

2) Number of inhabitants in the inventory year

32528

3) Emission factors

☑ IPCC

☐ LCA (Life Cycle Assessment)

4) Emission reporting unit

tonnes CO₂

5) Methodological notes

1000 chars left

A. Final energy consumption

① Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

		FINAL ENERGY CONSUMPTION [MWh]														
						Fossi	l fuels					Re	newable ener	gies		
Sector	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 INDUSTRI	ES															
Municipal buildings, equipment/facilities	9534	4252	18752												148	32647
Tertiary (non municipal) buildings, equipment/facilities	22348	11705	31500													65553
Residential buildings	34484	33250	76441						862				47847			192884
Public lighting	881															881
Industry Non-ETS																0
EIS (not recommend	led)															0
Subtotal	67247	49208	126693	0	0	0	0	0	862	0	0	0	47847	0	148	292005
TRANSPORT																
Municipal fleet						32	10					2				44
Public transport						10023	0					516				10540
Private and commercial transport	117					58043	46645					5368				110172
Subtotal	117	0	0		0	68098	46655	0		0		5887	0	0	0	120756
OTHER									1							
Agriculture, Forestry, Fisheries																0
TOTAL	67363,236	49207,77778	126692,5	0	0	68097,54	46654,85	0	862,38	0	0	5887,03	47847,2717	0	148,2	412760,785

Covenant Key Sectors

B. Energy supply

① Hide sections or rows as appropriate to your emission inventory.

B1. Municipal purchases of certified green electricity

Municipal purchases of certified green electricity	Renewable electricity purchased [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Certified green electricity purchased	0	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants (ETS and large-scale plants > 20 MWe not recommended)	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	2		0
Hydroelectric	0		0
Photovoltaics	1164		0
Geothermal	0		0
TOTAL	1166		0

B3. Local/distributed electricity production

		Electricity pro	oduced [MWh]		Energy carrier input [MWh] Fossil fuels												
(Local electricity production plants ETS and large-scale plants > 20 MW not recommended)	from renewable sources	from non- renewable sources	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Waste	Plant oil	Other biomass	Other renewable	Other	Fossil sources	Renewable sources		
С	ombined Heat and Power																
С	ther																
Т	OTAL			0	0				0					0	0		

B4. Local heat/cold production

	Heat/cold pro	oduced [MWh]			CO ₂ / CO ₂ eq. emissions									
	Ticat cold pro	oddced [MVVII]		F	ossil fuels								002700200	i. Cimosiono [t]
Local heat/cold production plants	from renewable sources	from non- 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)			49208										9938	
Other														
TOTAL	0		49208										9938	

C. CO₂ emissions

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

Click here to visualise fuel emission factors

	Electricit	ty					Fossi	l fuels		Renewable energies						
	<u>National</u>	<u>Local</u>	Heat/cold	Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal
BEI	0,360	0,360	0,228	0,202	0,000	0,000	0,171	0,249	0,000	0,346	0,000	0,000	0,000	0,007	0,000	0,000
MEI	0,360	0,360	0,228	0,202	0,000	0,000	0,171	0,249	0,000	0,346	0,000	0,000	0,000	0,007	0,000	0,000

C2. Please complete in case non-energy related sectors are included:

Non-energy related sectors	CO₂ eq. emissions [t]
Waste management	
Waste water management	
Other non-energy related	

Emission Inventory

		CO ₂ emissions [t] / CO ₂ eq. emissions [t]															
							Fossi	l fuels					Re	newable ene	rgies		
Sector		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	S AND INDUSTRIES																
Municipal buildings, equipment/facilities	<u> </u>	3432	968	3787	0	0	0	0	0	0	0	0	0	0	0	0	8187
Tertiary (non municipal) buildings, equi	oment/facilities	8045	2664	6362	0	0	0	0	0	0	0	0	0	0	0	0	17071
Residential buildings		12414	7567	15438	0	0	0	0	0	298	0	0	0	322	0	0	36039
Public lighting		317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
	Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industry	ETS (not recommended)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal		24209	11198	25587	0	0	0	0	0	298	0	0	0	322	0	0	61614
▼TRANSPORT																	
Municipal fleet		0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	8
Public transport		0	0	0	0	0	1709	0	0	0	0	0	0	0	0	0	1709
Private and commercial transport		42	0	0	0	0	9897	11637	0	0	0	0	0	0	0	0	21576
Subtotal		42	0	0	0	0	11611	11639	0	0	0	0	0	0	0	0	23293
OTHER																	
Agriculture, Forestry, Fisheries		0	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		24251	11198	25587	0	0	11611	11639	0	298	0	0	0	322	0	0	84907

Covenant Key Sectors

Additional comments

n

① Copy as many "MEI" tabs for Monitoring Emission Inventories a	s necessary.	
1) Inventory year	[drop-down]	
2) Number of inhabitants in the inventory year		
3) Emission factors_	□ IPCC □ LCA (Life Cycle Assessment)	
4) Emission reporting unit	□ tonnes CO₂ □ tonnes CO₂ equivalent	
5) Methodological notes		999 chars left

△ HOME

A. Final energy consumption

① Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

			FINAL ENERGY CONSUMPTION [MWh]														
							Fossi	l fuels					Rei	newable ener	gies		
	Sector	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																
9	Municipal buildings, equipment/facilities																0
9	Tertiary (non municipal) buildings, equipment/facilities																0
9	Residential buildings																0
9	Public lighting																0
	Industry Non-ETS																0
	Industry ETS (not recommended)																0
	Subtotal	0		0		0		0	0		0					0	0
9	TRANSPORT																
	Municipal fleet																0
	Public transport																0
	Private and commercial transport																0
	Subtotal	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

Covenant Key Sectors

B. Energy supply

① Hide sections or rows as appropriate to your emission inventory.

B1. Municipal purchases of certified green electricity

	Municipal purchases of certified green electricity	purchased	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
C	ertified green electricity purchased		

B2. Local/distributed electricity production (Renewable energy only)

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

B3. Local/distributed electricity production

			Electricity produced [MWh]		Energy carrier input [MWh] Fossil fuels									CO ₂ / CO ₂ eq. emissions [t]	
	Local electricity production plants arge-scale plants > 20 MW not recommended)	from renewable sources	from non- renewable sources	Natural gas			Lignite	Coal	Waste	Plant oil	Other biomass	Other renewable	Other	Fossil sources	Renewable sources
Combined H	leat and Power														
Other															
TOTAL						0			0					0	0

B4. Local heat/cold production

	Energy carrier input [MWh]										CO ₂ / CO ₂ eq. emissions [t]			
	rioda cola pro	duced [MWh]	Fossil fuels										SSZ / SSZ SQL SIMOSIONS [4]	
Local heat/cold production plants	from renewable sources	from non- 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

	Electrici	ty		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	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal
BEI	0,360	0,360	0,228	0,202	0,000	0,000	0,171	0,249	0,000	0,346	0,000	0,000	0,000	0,007	0,000	0,000
MEI																

C2. Please complete in case non-energy related sectors are included:

Non-energy related sectors	CO₂ eq. emissions [t]
Waste management	
Waste water management	
Other non-energy related	

Emission Inventory

								CO ₂ e	emissions	[t] / CO ₂ eq. e	missions [t]						
							Fossi	l fuels					Re	newable enei	rgies		
Sector		Electricity	icity 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/FACILITI	ES AND INDUSTRIES																
Municipal buildings, equipment/faciliti	<u>es</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
🗸 <u>Tertiary (non municipal) buildings, eq</u> ı	uipment/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
Public lighting		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
In decades	Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industry	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		0	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

Covenant Key Sectors

Additional	comments

0



Benchmarks of E	xcellence								
Benchmark of Excellence form		_							
Copy as many "BoE" tabs for Key Action	as necessary.								
Kev action									
Title of the Benchmark of Excellence	Modernization of the FM DAS2K Csapó Dániel High School in Szekszárd								
Language	Hurgarian								
Sector									
Area of intervention									
Policy instrument									
Responsible body									
Description	x anksolan (F11/162/C Caupo District Közöpiskok, mirt Ralpód) a rejekt neretőken intérnépének tölepítéket (öderált (öder								
Implementation timeframe									
Financing sources	Local authority's own resources lablaced Funds & Programmes UP Limits & Programmes X UP Limits A Programmes X Public-Private Partherships (I) Salect x for the ones that are applicable.								
Website									
Video link									
Key energy and financial figures									
Correction (vis) Energy sarings (MWh/a) Renewable energy produced (MWh/a) Implementation cost (E) Jobs created (number) Other finuse O in order to visualise the outcome of the He expectancy of the action (years)	110.4 484.2 0 482500 Posses specify Unit able below and to make a financial assessment of the results achieved forecasted by measure you will need to fill in all the relevant white cells related to the year of investment.								
Discount rate applied [%] First year of investment									
Financial savings (F)	0								
Investment costs		_							
Additional costs Net cash flow									
PV of Financial savings NPV of Investment Discounted Payback period Return on Investment (ROI) ESCO involved?	60 60 not reached years 0 months								

⊠ номе		
BACK ♥ ♥ NEXT		

Key Results of the Baseline Emission Inventory

Baseline year: 20

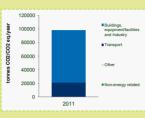
1) Greenhouse gas emissions and final energy consumption per capita

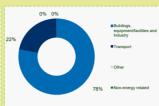
mission factor t CO₂ (eq.) /capita MWh/capita

2) Greenhouse gas emissions per secto







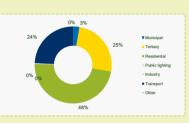


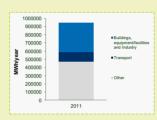
☑ HOME

Municipal	2898
Tertiary	29726
Residential	43037
Public lighting	0
Industry	76185
Transport	21489
Other	0
Non-energy related	0
Buildings, equipment/facilities and Industry	76185
Transport	21489
Other	0
Non-energy related	0

3) Final energy consumption per sector



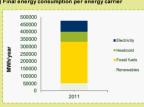




Municipal	12496
Tertiary	118861
Residential	225987
Public lighting	1452
Industry	0
Transport	114893
Other	0

Buildings, equipment/facilities and Industry	358796
Transport	114893
Other	473689

4) Final energy consumption per energy carrie

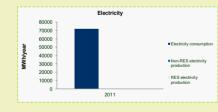


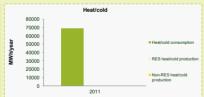
* Renewables - for non-electricity uses.
** The energy mix of heat/cold and electricity is not identified

Electricity	71889
Heat/cold	68785
Fossil fuels	282311

5) Local energy production







Electricity consumption	71889
Non-RES electricity production	0
RES electricity production	0

Heat/cold consumption	68785
RES heat/cold production	0
Non-RES heat/cold production	0

Other renewables	50704

Key elements of the SECAP on climate mitigation

6) Greenhouse gas emissions reduction target

Time horizon	Reduction Target	tonnes CO ₂ (eq.) to be reduced
2020	20%	19535
[drop -down]		

7) Estimated greenhouse gas emissions reduction per sector in 2020



Estimated greenhouse gas emissions reduction per sector in 2030

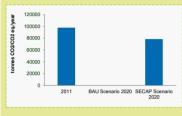


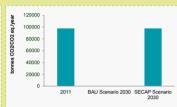
Estimated greenhouse gas emissions reduction per sector in long-term target year



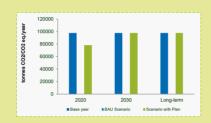
	2020	2030	drop -dov
Municipal	366	565,9346	0
Tertiary	623	4276,653	0
Residential	831	7022,352	0
Public lighting	49	288	0
Transport	284	3244,922	0
Industry	0	1143,713	0
Local electricity production	5698	12295,83	0
Local heat/cold production	5698	0	0
Others	150	9120 44	0

8) Expected evolution in terms of greenhouse gas emissions









2011	97673,82
BAU Scenario 2020	0
SECAP Scenario 2020	78139,06
2011	97673,82
BAU Scenario 2030	0
SECAP Scenario 2030	97673,82
2011	97673,82
BAU Scenario long-term year	0
SECAP Scenario long-term year	97673,82

Commonte:

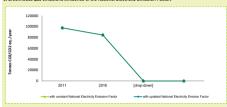
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Monitoring Report for Mitigation The response in the substrate of the substrate of the state of

S) Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy consumption per capita 10 Greenhouse gas emissions and final energy





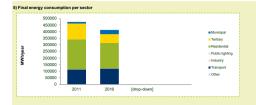


year Electricity Emission Factor		National Constant Featry updated emission Factor factor		GHG emissions with constant national emission factor	GHG emissions with updated national emission factor
2011	0,36	0,36	-	97674	97674
2016	0,36	0,353769	0,353769	84487	84487
[drop-down]	0	naannnaa	nannannan	********	nannnan

* Total GHG emission according to constant National Electricity Emission Factor has been calculated in order to show the effect on emission reduction expressed by the changing of National Power pid mix and not directly related to actions within the action plan.

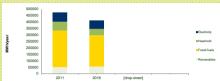
7) Greenh	ouse gas	emissions per sec	tor		
		120000				
	year	100000 -				Municipal
						Tertiary
	Tonnes CO2/CO2 eq./	80000				Residential
	8	60000 -				□ Public lighting
	8	40000 -				Industry
	ues u					■ Transport
	Þ	20000 -				Other
		. 1		-		Non-energy related
			2011	2016	[drop-down]	

	2011	2016	[drop-down]	
Municipal	2898	8187	0	
Tertiary	29726	17071	0	
Residential	43037	36039	0	
Public lighting	523	317	0	
Industry	0	0	0	
Transport	21489	23293	0	
Other	0	0	0	
Non-energy related	0	0	0	



	2011	2016	[drop-down]	
Municipal	12496	32647	0	
Tertiary	118861	65553	0	
Residential	225987	192884	0	
Public lighting	1452	881	0	
Industry	0	0	0	
Transport	114893	120756	0	
Other	0	0	0	



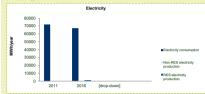


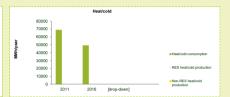
	2011	2016	[drop-down]	
Renewables	50704	53883	0	
Fossil fuels	282311	242307	0	
Heat/cold	68785	49208	0	
Electricity	71889	67363	0	

* Renewables for non-electricity uses.

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

10) Local energy production





	2011	2016	[drop-down]	
RES electricity production	0	1166	0	
Non-RES electricity production	0	0	0	
RES heat/cold production	0	0	0	
Non-RES heat/cold production	0	0	0	
Electricity consumption	71889	67363,24	0	
Heat/cold consumption	68785	49207,78	0	

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Fuel Emission Factors Database

☑ HOME

			Fossil fuels											Renewable energies													
CoM Template Energy carriers		Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline Lignite		Coal		Other fossil fuels		Plant oil		Biofuel (1)		Biofuel (2)		Other biomass (1)	Other biomass (2) (3)			Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal	
IPCO	Energy carriers	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Bito	Sub- Bitominous Coal	Municipal us Wastes (non- biomass fraction)	n. Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood		Wood Waste	Other Primary solid biomass		
Sust	inability criteria (a)										Com	Diomass naction,		(s)	(ns)	(s)	(ns)	(s)	(ns)			(s)	(ns)		-		-
Г.	t CO₂/MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	
	t CO ₂ eq./MWh [b]	0,202	0,227	0,232	0,268	0,268 ^(c)	0,250 ^(c)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367		
Г	t CO₂/MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386	0	,171	0,	194	0,	147	n.a.	0,107	0,006	0,409	0,193	n.a	n.a.	n.a. (h)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	893 0,380 0,385		0,174	0,392	0,182 ^(d)		0,206 [0]		0,156 ^(f)		n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a	n.a.	n.a. (N)

- a. PCC emission factor should be reported zero if the biodiselshormass meet sustainability criteria; fossil fuel emission factors to be used if biodise's are unsustainable. (ii) sustainable. (iii) not sustainable.

 Distriction consideration also the CNH and the NCO emissions from combination in stationary sources.

 Accordance for the CNH and the NCO emissions from combination in stationary sources.

 Consentative foare requiring the paint of from paint were period in the paint of th

a) if sustainability criteria during production are fulfilled
ns) if sustainability criteria during production are not fulfilled