

## Sustainable Energy Action Plan (SEAP) template

This is a <u>working version for Coverant Signatories</u> to help in data collection. However the <u>on line SEAF template</u>

available in the Signaturies' Corner (password restricted area) ut http://members.eumayors.eu/
is the only HEQUISED template that all the signatories have to fill in at the same time when submitting the SEAF in their own (national) language.

#### **OVERALL STRATEGY**

1) Overall CO2 emission reduction target	25 (%) by 2020	? Instructions
Please tick the corresponding box:	Absolute reduction Per capita reduction	
Long-term vision of your local authority (please include priority areas of		
The strategic objective of the SEAP is in 2020 Vratsa to become a municipality of investment.  Achieving the goal will be realized primarily by reducing energy costs and carbon	effective and sustainable management of energy resources and green economic growth, offering high quality services to the population of th	oving energy efficiency in buildings in the municipality; increasing energy
energy (mainly solar, photovoltaic, geothermal, blomass). Possible obstacles to infinited.	ne realization of the plan related to attracting homeowners to implement energy efficiency measures, where the main reserve for ene redestrian and bicycle trails, which will reduce the use of motor vehicles. The latter combined with the improved public transport will	gy savings, the high cost of new technologies, so that their use will be
3) Organisational and financial aspects		
Coordination and organisational structures created/assig	Administrative structure assigned, including professionals from the following fields - experts from directorate "Protocol, administ directorate "Spatial Development, public infrastructure and environment"	ation of projects and international cooperation", specialst from
Staff capacity alloca	ted Energy management is carried out by experts from the departments: Protocol administration of projects and international cooper and municipal property	ation, Spatial Planning and Finance, economic analysis, local revenues
Involvement of stakeholders and citizen	ans Energy days have been organized and are planned to be organized. Information campaigns for the tertiary sector will take place in	the Municipality
Overall estimated but	get 210 081 465.00 euro	
Foreseen financing sources for the investments within your action	Own funds from the municipal budget, operational programs, international programs and initiatives, lines of credit, forms of public	ic-private partnership
Planned measures for monitoring and follow	up Report on the implementation of the SEAP every two years.	

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 emission	2010 s per capita, please precise here the number of inhabitants <u>during the inventory year</u> :	74548	? 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		

#### 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.

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(Satespry)	Controller .	Newt/cond	National Section	House	I Desired Off	District	Catalog	Lenn	-	Other timely High	Plant of	Billowi	Opiner Sincerna	Some mercus	Service .	n=1
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:																
Municipal buildings, equipment/faculties	4706	11000,40	0.44	0.004278			A	U.D.1								19047.51
Pertiary (non municipal) buildings, equipment/facilities	85101.32	15035.24														100136.5
esidential buildings	109098.11	61953.97	1													17105270
viunicipal public lighting	1450															1450.0u
Industries (excluding industries involved in the EU Emission trading																0,00
AND DESCRIPTION OF THE PARTY OF	-200911-03	( a dispersion of	0.64	C004318	#			2.0								Albert D
TRANSPORT:																
Municipal feet				300.1		11066.07	226.19									1983.79
Public transport	1848.32		£4,83	3		45.47	0.73									1936.63
Private and commercial transport						11883.36	1291.72						1 0			18117.13
	\$348.77		4143	790.3		1300633	1000000	- 9	0	- 0	1			- 10		TO THE REAL
I de la companya del companya de la companya de la companya del companya de la co	202203.75	82324.67	43.85	590.904270		13016.52	6460.65	0.61				8			0	210720.99

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.

							074	1897/003	<b>CONTRACT</b>	nt promissions 21						
			Contribute .								Tenención reerges					
Catagory	1.00000005	********	Milled en	danidase	Herman On	Dimer	General	Same	ene.	Other hand : heats	<b>Minister</b>	Flore pal	Office Spinners	-SHIRE Management	болитея	1000
CILDINGS, EQUIPMENT/FACULTIES AND INDUSTRIES:							7. II									
Aunicipal buildings, equipment/facilities	3854.21	3284.72	0.09	0.00099			/ /	0.22		- 0					0	9129 340
ertiary (non municipal) buildings, equipement/facilities	69697.98	7009.61														76707.
esidential buildings	89351.35	28883.67														118235.
Aunicipal public lighting	1187.55															1187.
ndustries (excluding industries involved in the EU Emission trading																
America Published Comments for the last of the last	I SHAREST DV	4124	7.75	0.00045	J		1	11 12 12	9		4		1 9		4	1000
RANSPORT																
Municipal fleet				136/4929		269.51	96:32									462.82
ublic transport	2518.77		8.77			12.41	421	14.								1535
rivate and commercial transport					9	1177.86	1552.21									4725
of the literature of the liter	1245.77		8.77	131/025	J. J.	3404.19	1606.72,						0			\$722.52
THERE																
Waste management																
Maste water management																
Neare specify here your ather emissions				v .			- 11									_
	165604.88	41178	8.86	130,49089	0	3457.75	1608.71	0.22	0	0	0	0	0	0	(6)	211991 92
Corresponding CO2-emission factors in [t/MWh]	0 519		0.353			100000						11				
viteshounding cor-citiesson terrors in [6 MAIII]	0 515	19/44	7777	. 4444									4	4	4	

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

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

Locality games what educations	Legally produced	Existing Committee Strategy (AMAN)											CO17 CO2	Consuming COS emission forms for
Sectables TT plants , and at practic with a 20 MHz.	(broya)	Control per	Limite	Meanings	(America)	Court	Street West	Weste	Himail	(Marrieda Marrieda	(makeunita)	- million	PARTITION !	Hartell
wind power	· F							-	_					
Hydroelectric power		1					10.1							
Photovoltaic														
Combined Heat and Power														
Other														
Pience snecify:														
Test					1									

#### 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 provided materials	greated		Contigy carrier (exatt (NWH))								(02700)	Communicating City-	
Control of the Contro	hearman				-		Terret	Plant all	Other	Other	-	aining time.	hear/void production in
	SMINE	Name of Addition	mad che	Monthly of	A spring	Cont			the second	-	-0-11	70	. Ir/Amehi
Combined Heat and Power													
District Heating plant(s)	122600.77	221012.17										#1178	0.18629
Other													2
Please specify:													
Total	122900.77	221032317	- 0	- 0	e			0	0	0	.0	#1178	

#### 4) Other CO2 emission inventories

If other inventory(les) 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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scheme - ETS) & Small and Medium Sized Enterprises (SMEs)

## Sustainable Energy Action Plan (SEAP) template

### SUSTAINABLE ENERGY ACTION PLAN

Title of your Sustainable Energy Action Plan SUSTAINABLE ENERGY ACTION PLAN OF MUNICIPALITY OF VRATSA	2013-2020 "VRATSA 2020 – GREEN AND ENERGY SUSTAINA	BLE "		1				?	Instructions	
Date of	formal approval 25.6.2013 Authority appr	oving the plan Municipal	Council	]						
Key elements of your Sustainable Energy Action Plan								2		
Green cells are compulsory fields	Grey fields are non editable		1							
CHARLES CONTROL STATE OF THE ST										
SECUCIOS  A Vietas of content	427 at Nort of Houseway and Hold of Actions	Responsible department, sensor or company (its case of interference of bid	Mighton and the party of the control	Cathaumat cunts	Copposed and Copposed in Coppo	Experient removable energy promotes	Tiporosa CGE reduction con	Charge moving benjud- per salation (Mesolid	more than a second terminal te	COS constant tengent coscussos fi
- //		(may))			DAMAGE AS	INVANUAL	THE STATE OF THE S	in-20080	(MINN) (MINN)	0.2030
BUILDINGS, EQUIPMENT / FACILITIES & INDUSTRIES:	Water and the Control of the Control	11 2						31202		2190
Municipal buildings, equipment/facilities  Tertiary (non municipal) buildings, equipment/facilities	The state of the s	Directorate "Protocol, administration of projects and international cooperation" and Directorate "Spatial Development, public linfastructure and emfronment".  Directorate "Protocol, administration of projects and International operation" and	Action 1, 2013-2014 Action 2, 2013-2016 Action 3, 2014-2030 Action 6, 2014-2020 Action 6, 2014-2020 Action 6, 2014-2020 Action 7, 2013-2020 Action 8, 2013-2014	Action 1. 1. 500 000 EUR Action 2. 19 450 000 EUR Action 3. 15 550 000 EUR Action 6. 250 000 EUR Action 5. 800 000 EUR Action 6. 300 000 EUR Action 7. 1500 000 EUR Action 8. 340 000 EUR	Action 1. Action 2. 800 Action 3. 500 Action 4. 200 Action 6. 4.000 Action 6. 1.006 Action 6. 1.006 Action 7. 300 Action 8. 394		Action 2. Action 2. 433 Action 3. 500 Action 4. 350 Action 5. 350 Action 6. 500 Action 6. 500 Action 8. 240			
	Action J. Perform audits for energy efficiency of residential buildings in the municipality; Action 2. Introduction of packages of energy efficiency measures in residential buildings; Action 3. Development and implementation of local financial mechanisms to	Directorate "Spartal Davelopment, public Infrastructure and environment"  Directorate "Protocol, administration of projects and (international cooperation" and	Action 1, 2015-2020 Action 2, 2015-2020	Action 1, 500 000 EUR Action 2, 2 000 000 EUR	Action 1. Action 2. 10013	÷	Action 1. Action 2. 7670			
Residential buildings	support the implementation of energy efficiency measures in residential buildings.  Action 1. Preparation and implementation of a project for the repair of the	Directorate "Spatial Development, public infrastructure and environment" Directorate "Protocol,	Action 1, 2013-2020 Action 2, 2013-2020 Action 3, 2013-2020	Action 1, 500 000 EUR Action 2, 2 000 000 EUR Action 3, 2 000 000 EUR	Action 2. 10000 Action 3. 7104		Action 1. Action 2. 6912 Action 3. 4910			
Municipal public lighting Industries (excluding industries involved in the EU Emission trading	section in Preparation and implementation of a project for our repair of the endstring and construction of new energy efficient street lighting. IA-citon 2. Gradual establishment an autonomously energy efficient street lighting in problem neighborhoods and sections? Action 3. Development of effective systems for maintenance and exploitation of street lighting, including with the participation of citizens.	administration of projects and international cooperation" and Directorate "Spatial Development, public infrastructure and environment"	Action 1, 2013-2015 Action 2, 2013-2020 Action 3, 2013-2020	Action 1, 500 000 EUR Action 2, 1 000 000 EUR Action 3, 500 000 EUR	Action 1, 40 Action 2, 65 Action 3, 40		Action 1. 35 Action 2. 49 Action 3. 35			

Other - please specify: Green system in the Municipality of Vratsa and gasification	Actoin 1. Construction of public green area in housing setate "Dubnika"; Acton 2. Rehabilitation and renovation of public park "Hights"; Acton 3. Construction of park cole in the region of Medkowsko dera from the Bouleward "Vort Yum" or "Vasti Kanchov"; Actinn 4. Reconstruction of the central podestrian zone; Action 5. Rehabilitation of green areas in the industrial zone - Reconstruction of pedestrian and bite traits, energy efficient lighting, planting Action 5. Therefore the provision of the central podestrian and connecting customens to space between apartment buildings; Action 6. Improvement of spaces between apartment buildings; Action 7. Crustion of a network of gasflication and connecting customens to the network.	Directorate "Protocol, administration of projects and international cooperation" and Directorate "Spiral Development, public infrastructure and environment".	Action 1: 2013-2014 Action 2: 2013-2014 Action 3: 2013-2014 Action 4: 2014-2020 Action 6: 2014-2020 Action 6: 2014-2020 Action 6: 2013-2014	Action 1: 1 515 650 EUR Action 2: 552 715 EUR Action 3: 180 000 EUR Action 4: 61500 000 EUR Action 5: 2 000 000 EUR Action 6: 200 000 EUR Action 6: 200 000 EUR						
TRANSPORT:			100000000000000000000000000000000000000	Treatment of the day day box				864	ol	542.58
Municipal fleet	Action 1. Use of wehicles that have low fuel consumption; Action 2. Use of wehicles that are loaded with blodiesel.	Directorate "Protocol, administration of projects and International cooperation" and Directorate "Spatial Development, public Infrastructure and environment."	Action 1: 2014-2020 Action 2: 2014-2020	Action 1: 50 000 EUR Action 2: 200 QOD EUR	Action 1. 100 Action 2. 98		Action 1. 16.58 Action 2. 16			
Public transport Private and commercial transport	Action 1. Fausthilty study for Integrated urban transport; Action 2. Persparation of working draft for the contrictation of new bus routus; Action 3. Preparation of working draft for the contrictation of new bus routus; Action 3. Preparation of working draft for the precedency of the road network contact, network and reconstruction of routes trolleybus network; Action 4. Preparation of working draft for the reconstruction of the road network of trolleybus routus, including and all related activities repair stops platforms for people with slabbilities, light and audica amountements of stops and information for blind and changeable messages size, bratishing pedestrian traffic lights with validities alarm for the blind, relationshipstation of willows; and sidewalls, building of fice lones, street lighting with energy efficient, building surveillance, build signs and markings; Action 5. Preparation of working draft for construction of multistorey open parking in complex Dabnikg. Action 6. Preparation of working draft for the irreplementation of an automated control system - centralized computer system, traffic control and modernhaution of traffic lights. Action 7. Modernhaution and expansion of sublic transport trailing in the city. Action 8. Rehabilitation and reconstruction of street networks and constructions; Action 9. Repair, implementation of energy efficiency messures and control or safe usban environment and risk preventions.  Action 9. Repair, implementation and responsibilities in the control in the center;  Action 1. Executions to the control of the prevention.	Directorate "Protocol, administration of projects and international cooperation" and Directorate "Spatial Development, upublic infrastructure and environment"  Directorate "Protocol,	Action 1. 2013-2015 Action 2. 2013-2015 Action 3. 2013-2015 Action 4. 2013-2015 Action 5. 2013-2015 Action 6. 2013-2015 Action 7. 2015-2010 Action 8. 2015-2020 Action 9. 2015-2020	Action 1. 10 000 EUR Action 2. 10 000 EUR Action 3. 12 500 EUR Action 4. 360 000 EUR Action 5. 1 800 EUR Action 6. 300 000 EUR Action 7. 20 000 000 EUR Action 7. 300 000 EUR Action 9. 400 000 EUR Action 9. 490 000 EUR	Action 1.100 Action 2.98 Action 3. Action 6. Action 7. Action 7. Action 7. Action 7. Action 7. Action 7. Action 9.		Action 1. 16.58 Action 2. 16 Action 3. Action 6. Action 6. Action 7. 28 Action 9.			
	Action 2. Encouraging people to use curpool: Action 3. Promoting the use of lecyters. Action 4. Construction of bits lause; Action 5. Construction of public parting lots with energy efficient lighting and landscaping.	administration of projects and international cooperation" and Directorate "Spatial Development, public infrastructure and environment"	Action 1; 2014-2020 Action 2; 2014-2020 Action 3; 2014-2020 Action 4; 2014-2020 Action 5; 2014-2020	Action 1. 1 500 EUR Action 2. 1 500 EUR Action 3. 1 500 EUR Action 4. 600 000 EUR Action 5. 30 000 EUR	Action 1. 20 Action 2. 20 Action 3. 20 Action 4. 62 Action S. 60		Action 1, 50 Action 2, 50 Action 3, 50 Action 4, 162 Action 5, 160			
Other - please specify:			THE REAL PROPERTY.	PACION SI SIC GOO EUR	FECTOR 22 CO		Pictoria, 200			
LOCAL FLECTRICITY PRODUCTION:								36650	36150	30016,35
Hydroelectric power				Ì		-				
Wind power	Action 1. Construction of a wind plank with a capacity of 36 MW	Directorate Protocol, administration of projects and international cooperation" and Directorate "Spatial Development, public infrastructure and environment"	Action 1. 2014-2020	Action 1, 25 000 000 EUR	Action 1, SSSS	Action 1. 5650	Action 1, 4627.3			
Phatovaltaic	Action I Davalopment of photovoltaic power plants in the reunicipality with a total especify of 25 MWH and 1620 KWp. Action 2. Installing the 25 Stames hot water installations on municipal buildings with year round use (municipal administration, dylidren and social institutions). Action 3. Installation of photovoltaic systems to generate electricity for use by the municipal sector.	Directorate "Protocol, administration of projects and	Action 1. 2012-2015 Action 2. 2020 Action 3. 2020	Action 1. 64 000 000 EUR Action 2. 400 000 EUR Action 3. 1 000 000 EUR	Action 1. 28000 Action 2. 1000	Action 1, 28000 Action 2, 1000 Action 3, 1000	Action 1. 23170 Action 2. 700 Action 3. 700			
Combined Heat and Power	Action 1. Integrated project for the construction of installation for utilization of renowable snergy sources to atthir the the energy needs of a complex of public buildings in the central city area Action 2. Construction of thermal solar heating for hot water; Action 3. Construction of biomass heating plant.	Directorate "Protocol, administration of projects and international cooperation" and Directorate "Spatial Development, public infrastructure and environment."	Action 1, 2013-2020 Action 2, 2013-2020 Action 3, 2013-2020	Action 1. 1 500 000 EUR Action 2. 4 000 000 EUR Action 3. 5 000 000 EUR	Action 1. 500 Action 2. 250	Action 1. 250 Action 2. 125 Action 3. 125	Action 1, 419 Action 2, 200 Action 3, 200			
Other - please specify:				, =			٠.			
LOCAL DISTRICT HEATING / COOLING, CHPs:										
Combined Heat and Power										
District heating plant				-						
Other - please specify:						-	$\vdash$			
	1						1			

LAND USE PLANNING:			v		- W	- WE		
Strategic urban planning								
Transport / mobility planning	<del></del> -							
Standards for refurbishment and new development								
Other - please specify:								
MINITE PROGUNEMENT OF PRODUCTS AND SERVICES								
Energy efficiency requirements/standards	<u>. `  </u>							
Renewable energy requirements/standards								
Other - please specify:								
WORKING WITH THE CITIZENS AND STAKEHOLDERS:			111				635.25	535.8
Advisory services								
Financial support and grants								
Awareness raising and local networking	Action 1. Conduct of municipal information campaign for promote the use of remewable emergy sources realidants buildings, especially thermo collection, economic and environmental benefits and informing local residents about possible financial schemes for the implementation of private projects remewable energy source;  Action 2. Organizing and conducting ewaveness campaigns based on the principles of social mariteting;  Action 3. Build partnerships with local and regional civil society, media and businesses to conduct joint initiatives to promote energy efficiency measures in bouseholds;  Action 4. Organizing information campaigns, conferences, business breakfasts, seminars and other meetings for perpresentatives of local businesses; Action 5. Administrative stimulate business and industrial to use the renewable energy through tax preferences, specialized administrative services and other stimulate;  Action 6. Establishment of the energy database of installed generating capacity from renewable energy sources in the municipality.		Action 1. 2013-2020 Action 2. 2013-2020 Action 3. 2013-2020 Action 4. 2013-2020 Action 5. 2013-2020 Action 6. 2013-2020	Action 1. 1 500 EUR Action 2. 1 500 EUR Action 4. 1 500 EUR Action 5. 1 500 EUR Action 6. 2 000 EUR	Action 1, 270 Action 2, 30,25 Action 3, 30 Action 4, 100 Action 5, 235 Action 6.	Action 1. 229.36 - Action 2. 24.57 Action 3. Action 4. 81.9 Action 5. 200 Action 6.	- 1 5	
Training and education	Action 1. Istablishment of structural unit of the mosticipal administration, which takes responsibility for coordinating the ownerall process of planning, implementation and moratoring of sustainable energy policies at the local lawd; Action 2. Introduce a system of training of experts in the local administration of accross units engaged in the planning, implementation and control of capital investment and regional development policies; Action 3. Improve the system of reporting, monitoring and analysis of energy consumption in Municipality of Vrates; Action 4. Creation of international partnerships, preparation and implementation of partnership projects in the field of energy efficiency; Action 5. Development and implementation of a training programme in the school and outside the school.	Directorate "Protocol, alministration of projects and international cooperation" and Directorate "Spatial Development, public infrastructure and controlment".	Action 1, 2013-2014 Action 2, 2014-2015 Action 8, 2014-2018 Action 6, 2013-2020 Action 5, 2014-2016	Action 1. 5 000 EUR Action 2. 5 000 EUR Action 3. 5 000 EUR Action 4. 5 000 EUR Action 5. 5 000 EUR				
Other - please specify:								
OTHER SECTOR(S) - % assessed its Other - Please specify:	-							

#### 3) Web address

Direct link to the webpage dedicated to your SEAP (if any) http://www.vraiza.bg/?calegory=42

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