

OVERALL STRATEGY

Mandatory fields

1) OVERALL CO2 EMISSION REDUCTION TARGET BY 2020

Absolute reduction	or	Per capita reduction
20%		20%
44%		48%

Please select the corresponding box

2) LONG-TERM VISION OF YOUR LOCAL AUTHORITY (please include priority areas, main trends and challenges)

As a vision for the future, the energy policy is orientated to guarantee security of energy supply, ensure economical and environmental sustainability of the sector and quality of energy services, and to contribute to job creation and regional added value and to the competitiveness of the regional economy.

The specific main objectives of the strategy for sustainable energy are to:

- Improve energy supply guarantee.
- Reduce energy dependence from abroad.
- Reduce energy intensity in Gross Domestic Product.
- Reduce carbon dioxide emissions.

The targets to achieve in 2020 are to:

- Increase by 20% the number of days of autonomous storage of primary energy compared to 2005.
- Increase to 20% the use of regional energy resources in primary energy demand.
- Increase to 50% the use of regional energy resources in electricity production.
- Reduce by 20% the energy intensity in Gross Domestic Product (primary energy/Gross Domestic Product) compared to 2005.
- Reduce CO2 by 20% compared to 2005.

3) ORGANISATIONAL AND FINANCIAL ASPECTS

Coordination and organisational structures created/assigned	<p>Steering Committee:</p> <ul style="list-style-type: none"> - Vice-Presidency of the Regional Government; - Regional Directorate of Commerce, Industry and Energy; - Empresa de Electricidade da Madeira, S.A. (electricity company); - AREAM – Agência Regional da Energia e Ambiente da Região Autónoma da Madeira (regional energy agency). <p>Advisory Committee: constituted by representatives of stakeholders.</p>
Staff capacity allocated	<p>Coordination: Vice-Presidency of the Regional Government; Regional Directorate of Commerce, Industry and Energy; Empresa de Electricidade da Madeira, S.A.; AREAM – Agência Regional da Energia e Ambiente da Região Autónoma da Madeira.</p> <p>Technical staff: Empresa de Electricidade da Madeira, S.A.; AREAM – Agência Regional da Energia e Ambiente da Região Autónoma da Madeira; promoters; energy service companies; consultants; builders; etc.</p>

Involvement of stakeholders and citizens	<p>To catalyse the involvement of stakeholders, periodic meetings with the Advisory Committee will be held, comprising representatives from various sectors of society with a say or interest in the energy area, in order to inform on the actions and the progress of the plan's implementation, identify existing or possible constraints and analyse measures to optimize the results and correct possible deviations.</p> <p>To reach a wider public, the media will be used, to date with events, forums and publications, to disseminate information on the actions that constitutes the plan and on the benefits and incentives, raising awareness to the importance of these actions, in the context of regional development and the improvement of quality of life and of the environment.</p>
Overall estimated budget	41,67 million euros until 2020 - 52,9% public companies; 26,7% citizens; 16,0% private companies and organizations; 2,2% Regional Government; 2,2% Municipality.
Foreseen financing sources for the investments within your action plan	<p>The financing sources are:</p> <ul style="list-style-type: none"> - Regional Budget. - Municipal Budget. - Own funds. - European Investment Bank. - Bank loan. - Energy Service Companies (ESCO). - Public-private partnerships. <p>The support instruments are:</p> <ul style="list-style-type: none"> - Operational Programmes (Intervir+ e Rumos). - Incentive Systems (Qualificar+, SI Turismo, etc.). - European programmes. - Energy Efficiency Fund. - Tax benefits. - Special tariffs.
Planned measures for monitoring and follow up	<p>For monitoring, data will be collected periodically regarding final energy demand, secondary energy production, use of renewable energy and state of implementation of sustainable energy actions.</p> <p>Based on the information gathered, AREAM will prepare an energy balance and an emissions inventory, to verify the progress of the indicators in relation to the objectives and targets set, in order to evaluate the results of the actions implemented.</p> <p>The Advisory Committee analyses the indicators concerning the objectives and targets and the progress of the actions, and meet every two years, to discuss the results and the solutions to optimize the implementation of the Sustainable Energy Action Plan.</p>

Go to the next sheet dedicated to your Baseline Emission Inventory

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BASELINE EMISSION INVENTORY

Mandatory fields

1) GENERAL DATA

Number of inhabitants **5 482** (2009)

CO2 calculation method **IPCC emission factors**

2) RESULTS OF ENERGY BALANCE

FINAL ENERGY DEMAND

[MWh]

DEMAND SECTOR	ENERGY FOR FINAL USE																		
	Centralized energy services				Fossil fuels							Renewable energy sources (excluding electricity and heat sold to public networks)							
Sector description	Electricity from public grid	Heat from district heating	Cold from district cooling	Subtotal	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Subtotal	
RESIDENTIAL	7 439			7 439				4 275			4 275			102			111	213	11 927
Hot water	320			320				2 862			2 862			102				102	3 285
Heating and cooling	644			644				128			128						88	88	860
Lighting	1 789			1 789															1 789
Cooking	579			579				1 284			1 284						23	23	1 886
Refrigerator and freezers	1 303			1 303															1 303
Laundry machines and dryers	358			358															358
Dish washing	213			213															213
Tv sets	854			854															854
Other electric appliances	1 379			1 379															1 379
PRIMARY SECTOR	137			137		103					103								240
Agriculture, forestry and fishing	80			80		103					103								183
Mining and quarrying	57			57															57
SECONDARY SECTOR	8 097			8 097															8 097
Manufacturing	986			986															986
Water supply, sewerage, waste management and remediation activities	6 886			6 886															6 886
Construction	225			225															225
TERTIARY SECTOR	19 279			19 279		2 173		652			2 825			14				14	22 118
Wholesale and retail trade; repair of motor vehicles and motorcycles	3 560			3 560															3 560
Accommodation and food service activities	7 359			7 359		1 532		522			2 054								9 413
General public administration and social security	2 197			2 197															2 197
Defence, justice, police and fire departments	223			223															223
Education	197			197		641		5			646			14				14	856
Human health and social work activities	423			423															423
Other services	2 848			2 848				125			125								2 973
Public lighting	2 472			2 472															2 472
TRANSPORTS						20 123		11 688			31 811								31 811
Passenger road transport (public transports, taxi, tourism, school buses, etc.)						616					616								616
Freight transport by road and removal services						183					183								183
Other fleet for public and private services						1 248					1 248								1 248
Private transports						18 077		11 688			29 765								29 765
TOTAL FOR INTERNAL MARKET	34 953			34 953		22 399		11 688	4 927		39 014			116			111	227	74 194
Reexportation (ships, airplanes, industrial free zones, national and international militar installations, etc.)																			
Activities with intensive use of energy for exportation (to exclude in the island energy balance)																			
Other (to exclude in the island energy balance)																			
TOTAL	34 953			34 953		22 399		11 688	4 927		39 014			116			111	227	74 194

SECONDARY ENERGY PRODUCTION AND ENERGY FLUXES

[MWh]

PRODUCTION SECTOR	ENERGY SOURCE																	SECONDARY ENERGY CONVERSION			ENERGY FLUXES						TOTAL	Distribution losses and self-consumption
	Fossil fuels							Renewable energy sources (from systems connected to public networks)										Subtotal	Electricity conversion to cold	Heat conversion to cold	Subtotal	Storage		External connection		Reexportation and external consumption		
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Subtotal					Input to storage	Output from storage	Import to island	Export from island			
Electricity	32 169	2 057					34 226		1 821	7						1 827	36 053											
Heat																												
Cold																												
TOTAL	32 169	2 057					34 226		1 821	7						1 827	36 053											

PRIMARY ENERGY CONVERTED TO SECONDARY ENERGY (primary energy consumption)

[MWh]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																	Conversion losses from primary to secondary energy
	Fossil fuels							Renewable energy sources							Subtotal		TOTAL	
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal		
Electricity	93 127	5 955					99 082		1 821	7						1 827	100 909	64 856
Heat																		
Cold																		
TOTAL	93 127	5 955					99 082		1 821	7						1 827	100 909	64 856

PRIMARY ENERGY DEMAND

[MWh]

Energy product	PRIMARY ENERGY SOURCE																							
	Fossil fuels							Renewable energy sources								Electricity				Heat		Cold		TOTAL
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Imported electricity (cable)	Exported electricity (cable)	Reexportation and external consumption	Subtotal	Reexportation and external consumption	Reexportation and external consumption		
TOTAL	93 127	28 354	11 688	4 927			138 096		1 821	122			111			2 054							140 150	

ENERGY CONVERSION EFFICIENCY

[%]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																
	Fossil fuels							Renewable energy sources									
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	35%	35%	-	-	-	-	35%	-	100%	100%	-	-	-	-	-	100%	36%
Heat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3) RESULTS OF EMISSION INVENTORY

CO2 EMISSIONS FROM FINAL USE

[t CO2]

DEMAND SECTOR		ENERGY FOR FINAL USE																	
		Centralized energy services				Fossil fuels							Renewable energy sources (excluding electricity and heat sold to public networks)						
Sector description	Electricity from public grid	Heat from district heating	Cold from district cooling	Subtotal	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Subtotal	
RESIDENTIAL	5 869			5 869				1 026			1 026								6 895
Hot water	253			253				687			687								940
Heating and cooling	508			508				31			31								539
Lighting	1 411			1 411															1 411
Cooking	456			456				308			308								765
Refrigerator and freezers	1 028			1 028															1 028
Laundry machines and dryers	283			283															283
Dish washing	168			168															168
Tv sets	674			674															674
Other electric appliances	1 088			1 088															1 088
PRIMARY SECTOR	108			108		28					28								136
Agriculture, forestry and fishing	63			63		28					28								91
Mining and quarrying	45			45															45
SECONDARY SECTOR	6 387			6 387															6 387
Manufacturing	778			778															778
Water supply, sewerage, waste management and remediation activities	5 432			5 432															5 432
Construction	177			177															177
TERTIARY SECTOR	15 208			15 208		580		157			737								15 945
Wholesale and retail trade; repair of motor vehicles and motorcycles	2 809			2 809															2 809
Accommodation and food service activities	5 805			5 805		409		125			534								6 339
General public administration and social security	1 733			1 733															1 733
Defence, justice, police and fire departments	176			176															176
Education	155			155		171		1			172								327
Human health and social work activities	334			334															334
Other services	2 246			2 246				30			30								2 276
Public lighting	1 950			1 950															1 950
TRANSPORTS						5 373	2 910				8 283								8 283
Passenger road transport (public transports, taxi, tourism, school buses, etc.)						164					164								164
Freight transport by road and removal services						49					49								49
Other fleet for public and private services						333					333								333
Private transports						4 826	2 910				7 737								7 737
TOTAL FOR INTERNAL MARKET	27 572			27 572		5 981	2 910	1 182			10 073								37 646

CO2 EMISSIONS FROM PRODUCTION

[t CO2]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																
	Fossil fuels							Renewable energy sources									TOTAL
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	
Electricity	25982	1590					27 572										27 572
Heat																	
Cold																	
TOTAL	25 982	1 590					27 572										27 572

[t CO2/MWh]

Energy product	CO2 EMISSION FACTORS
Electricity	0,765
Heat	
Cold	

CO2 EMISSIONS

[t CO2]

Energy product	PRIMARY ENERGY SOURCE																						TOTAL
	Fossil fuels							Renewable energy sources								Electricity				Heat	Cold		
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Imported electricity (cable)	Exported electricity (cable)	Reexportation and external consumption	Subtotal	Reexportation and external consumption	Reexportation and external consumption	
TOTAL	25 982	7 571	2 910	1 182			37 646															37 646	

[t CO2]

CO2 emissions from ETS installations included in the calculations for final use of energy	CO2 emissions from ETS installations included in the calculations for secondary energy production

Go to the next sheet dedicated to your Emission Inventory in 2020

PLAN EMISSION INVENTORY IN 2020 (implementing sustainable energy actions)

1) GENERAL DATA

Number of inhabitants (2020)

CO2 calculation method

Mandatory fields

2) RESULTS OF ENERGY BALANCE

FINAL ENERGY DEMAND

[MWh]

DEMAND SECTOR	ENERGY FOR FINAL USE																		
	Centralized energy services				Fossil fuels							Renewable energy sources (excluding electricity and heat sold to public networks)							
Sector description	Electricity from public grid	Heat from district heating	Cold from district cooling	Subtotal	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Subtotal	
RESIDENTIAL	6 908			6 908				3 725			3 725			436			44	480	11 114
Hot water	285			285				2 421			2 421			436				436	3 142
Heating and cooling	581			581				116			116						35	35	732
Lighting	1 534			1 534															1 534
Cooking	627			627				1 188			1 188						9	9	1 824
Refrigerator and freezers	1 232			1 232															1 232
Laundry machines and dryers	338			338															338
Dish washing	201			201															201
Tv sets	807			807															807
Other electric appliances	1 303			1 303															1 303
PRIMARY SECTOR	140			140		107					107								247
Agriculture, forestry and fishing	83			83		107					107								189
Mining and quarrying	57			57															57
SECONDARY SECTOR	7 684			7 684										45				45	7 730
Manufacturing	858			858										45				45	903
Water supply, sewerage, waste management and remediation activities	6 600			6 600															6 600
Construction	226			226															226
TERTIARY SECTOR	15 917			15 917		817		194			1 010			1 280				1 280	18 208
Wholesale and retail trade; repair of motor vehicles and motorcycles	2 978			2 978															2 978
Accommodation and food service activities	6 131			6 131		444		78			522			1 094				1 094	7 748
General public administration and social security	1 744			1 744															1 744
Defence, justice, police and fire departments	177			177															177
Education	109			109		372		4			376			186				186	671
Human health and social work activities	336			336															336
Other services	2 392			2 392				112			112								2 503
Public lighting	2 050			2 050															2 050
TRANSPORTS	249			249		19 056	10 773				29 829								30 078
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	35			35		789					789								823
Freight transport by road and removal services						195					195								195
Other fleet for public and private services	22			22		1 239					1 239								1 261
Private transports	192			192		16 833	10 773				27 606								27 799
TOTAL FOR INTERNAL MARKET	30 899			30 899		19 979	10 773	3 919			34 671			1 761			44	1 806	67 376
Reexportation (ships, airplanes, industrial free zones, national and international militar installations, etc.)																			
Activities with intensive use of energy for exportation (to exclude in the island energy balance)																			
Other (to exclude in the island energy balance)																			
TOTAL	30 899			30 899		19 979	10 773	3 919			34 671			1 761			44	1 806	67 376

SECONDARY ENERGY PRODUCTION AND ENERGY FLUXES

[MWh]

PRODUCTION SECTOR	ENERGY SOURCE																	SECONDARY ENERGY CONVERSION			ENERGY FLUXES						TOTAL	Distribution losses and self-consumption	
	Fossil fuels							Renewable energy sources (from systems connected to public networks)										Subtotal	Electricity conversion to cold	Heat conversion to cold	Subtotal	Storage		External connection		Reexportation and external consumption			Subtotal
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Input to storage					Output from storage	Import to island	Export from island					
Electricity	13 259	2 057					15 316		4 449	3 967			8 140			16 555	31 871										31 871	972	
Heat																													
Cold																													
TOTAL	13 259	2 057					15 316		4 449	3 967			8 140			16 555	31 871										31 871	972	

PRIMARY ENERGY CONVERTED TO SECONDARY ENERGY (primary energy consumption)

[MWh]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																Conversion losses from primary to secondary energy	
	Fossil fuels							Renewable energy sources								TOTAL		
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery			Subtotal
Electricity	38 321	5 945					44 266		4 449	3 967			20 350			28 765	73 031	41 160
Heat																		
Cold																		
TOTAL	38 321	5 945					44 266		4 449	3 967			20 350			28 765	73 031	41 160

PRIMARY ENERGY DEMAND

[MWh]

Energy product	PRIMARY ENERGY SOURCE																							
	Fossil fuels							Renewable energy sources								Electricity				Heat		Cold		TOTAL
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Imported electricity (cable)	Exported electricity (cable)	Reexportation and external consumption	Subtotal	Reexportation and external consumption	Reexportation and external consumption		
TOTAL	38 321	25 924	10 773	3 919			78 937		4 449	5 728			20 394			30 571							109 508	

ENERGY CONVERSION EFFICIENCY

[%]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																
	Fossil fuels							Renewable energy sources								TOTAL	
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	35%	35%	-	-	-	-	35%	-	100%	100%	-	-	40%	-	-	58%	44%
Heat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3) RESULTS OF EMISSION INVENTORY

CO2 EMISSIONS FROM FINAL USE

[t CO2]

DEMAND SECTOR	ENERGY FOR FINAL USE																		
	Centralized energy services				Fossil fuels							Renewable energy sources (excluding electricity and heat sold to public networks)							TOTAL
Sector description	Electricity from public grid	Heat from district heating	Cold from district cooling	Subtotal	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Subtotal	
RESIDENTIAL	2 745			2 745				894			894								3 639
Hot water	113			113				581			581								694
Heating and cooling	231			231				28			28								259
Lighting	610			610															610
Cooking	249			249				285			285								534
Refrigerator and freezers	489			489															489
Laundry machines and dryers	134			134															134
Dish washing	80			80															80
Tv sets	321			321															321
Other electric appliances	518			518															518
PRIMARY SECTOR	56			56		28					28								84
Agriculture, forestry and fishing	33			33		28					28								61
Mining and quarrying	23			23															23
SECONDARY SECTOR	3 054			3 054															3 054
Manufacturing	341			341															341
Water supply, sewerage, waste management and remediation activities	2 623			2 623															2 623
Construction	90			90															90
TERTIARY SECTOR	6 325			6 325		218		47			265								6 590
Wholesale and retail trade; repair of motor vehicles and motorcycles	1 183			1 183															1 183
Accommodation and food service activities	2 436			2 436		119		19			137								2 574
General public administration and social security	693			693															693
Defence, justice, police and fire departments	70			70															70
Education	43			43		99		1			100								144
Human health and social work activities	134			134															134
Other services	950			950				27			27								977
Public lighting	815			815															815
TRANSPORTS	99			99		5 088	2 683				7 770								7 869
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	14			14		211					211								224
Freight transport by road and removal services						52					52								52
Other fleet for public and private services	9			9		331					331								340
Private transports	76			76		4 494	2 683				7 177								7 253
TOTAL FOR INTERNAL MARKET	12 279			12 279		5 334	2 683	941			8 957								21 236

CO2 EMISSIONS FROM PRODUCTION

[t CO2]

PRODUCTION SECTOR	PRIMARY ENERGY SOURCE																
	Fossil fuels							Renewable energy sources								TOTAL	
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	10692	1587					12 279										12 279
Heat																	
Cold																	
TOTAL	10 692	1 587					12 279										12 279

[t CO2/MWh]

Energy product	CO2 EMISSION FACTORS
Electricity	0,385
Heat	
Cold	

CO2 EMISSIONS

[t CO2]

Energy product	PRIMARY ENERGY SOURCE																						
	Fossil fuels							Renewable energy sources									Electricity				Heat	Cold	TOTAL
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Imported electricity (cable)	Exported electricity (cable)	Reexportation and external consumption	Subtotal	Reexportation and external consumption	Reexportation and external consumption	
TOTAL	10 692	6 922	2 683	941			21 236															21 236	

[t CO2]

CO2 emissions from ETS installations included in the calculations for final use of energy	CO2 emissions from ETS installations included in the calculations for secondary energy production

Go to the next sheet dedicated to your Island Sustainable Energy Action Plan

Mandatory fields

1) TITLE OF ISLAND SUSTAINABLE ENERGY ACTION PLAN

Island Sustainable Energy Action Plan of Porto Santo

Authority approving the plan **Vice-Presidency of Regional Government of Madeira**

Date of formal approval

2) KEY ELEMENTS OF ISLAND SUSTAINABLE ENERGY ACTION PLAN

SECTORS AND FIELDS OF ACTION	ACTIONS (one line per action - insert lines if necessary; exclude ETS actions)	RESPONSIBLE FOR IMPLEMENTATION	IMPLEMENTATION SCHEDULE		ESTIMATED INVESTMENT COSTS [euro]	EXPECTED ENERGY SAVINGS [MWh/year]	EXPECTED RENEWABLE ENERGY INCREASE [MWh/year]	EXPECTED CO2 REDUCTION [ton/year]	ENERGY SAVINGS TARGET IN 2020 [MWh/year]	RENEWABLE ENERGY INCREASE TARGET IN 2020 [MWh/year]	CO2 REDUCTION TARGET IN 2020 [ton/year]
			Starting year	Ending year							
RESIDENTIAL											
Hot water	1.1. Installation of solar collectors for water heating (domestic hot water, swimming pools and washing machines).	• Citizens • Companies	2012	2020	400 000	117	330	127	1 205	330	859
	1.2. Purchase of high performance equipment and adoption of more efficient behaviour.	• Citizens	2012	2020	50 000	149		45			
Heating and cooling	1.3. Application of passive measures (thermal insulation in new and existing buildings, sunlight protection, natural ventilation) and adoption of more efficient behaviour.	• Citizen • Companies	2012	2020	3 000 000	106		78			
Lighting	1.4. Installation of energy efficient lamps, lighting fixtures and control devices, and adoption of more efficient behaviour.	• Citizen	2012	2020	200 000	238		198			
	1.5. Campaigns to provide energy efficient lamps and control devices (light and movement sensors).	• EEM • AREAM • Citizen	2012	2015	100 000	81		68			
Cooking	1.6. Acquisition of high performance kitchen equipment and adoption of more efficient behaviour.	• Citizen	2012	2020	125 000	123		15			
Refrigerator and freezers	1.7. Acquisition of high performance refrigerators and freezers, and adoption of more efficient behaviour.	• Citizen	2012	2020	80 000	124		104			
Laundry machines and dryers	1.8. Acquisition of high performance washing and drying machines, use of solar heated water and adoption of more efficient behaviour.	• Citizen	2012	2020	10 000	34		29			
Dish washing	1.9. Acquisition of high performance dish washing machines, use of solar heated water and adoption of more efficient behaviour.	• Citizen	2012	2020	10 000	20		17			
Tv sets	1.10. Acquisition of televisions with less energy consumption and less use of stand-by mode.	• Citizen	2012	2020		81		68			
Other electric appliances	1.11. Acquisition of electrical appliances (computers, printers, router, sound, etc.) with less energy consumption and less use of stand-by mode.	• Citizen	2012	2020		132		110			
Overall actions											
PRIMARY SECTOR											
Agriculture, forestry and fishing											
Mining and quarrying											
Overall actions											
SECONDARY SECTOR											
Manufacturing	2.1. Use of renewable energy, waste heat recovery and other available local resources, installation of more efficient heat production and storage equipment, improvement in insulation of thermal piping and optimizing conditions of use and adoption of more efficient behaviour.	• Companies	2012	2020	108 000	89	46	112			

[illegible]

Cold (non-renewable)											
Hydro											
Wind	5.1. Installation of wind farms.	• Companies	2017	2020	1 000 000		2 628	2 119			
Solar	5.2. Installation of solar photovoltaic kits in micro and mini production regimes.	• Companies • Citizen	2011	2020	4 399 217		1 405	1 133			
Geothermal											
Ocean											
Biomass	5.3. Installation of a biofuel production plant using micro-algae for conversion to electricity.	• EEM	2011	2012	15 000 000		8 140	6 564		12 173	9 816
Urban waste											
Storage	5.4. Installation of a storage and power stabilization system to mitigate the disruptions in energy production from wind and solar photovoltaic in the stability of the electricity grid.	• EEM	2012	2015	5 000 000						
External connection											
Distribution losses and self-consumption											
Overall actions											
LAND USE PLANNING											
Regional and local strategic planning	6.1. Integration of criteria and norms in land use planning and municipal regulations that encourage the minimization of energy needs in transports and buildings.	• Regional Government • Municipality	2012	2020							
	6.2. Implementation of a municipal sustainable energy action plan in the scope of the Covenant of Mayors.	• Municipality	2012	2015	30 000						
Transports and mobility planning	6.3 Preparation of a mobility plan that covers traffic conditioning and parking in urban centre and favours public transport, electric vehicles, bicycles and pedestrian circulation.	• Municipality	2012	2015	50 000						
	6.4. Installation of charging infrastructures for electric vehicles.	• EEM • Municipality • Companies	2012	2020	75 000						
	6.5. Expansion of the cycle lane to connect main residential and hotel areas, the beach, city centre, so that the bicycle may constitute an attractive and safe means of transport.	• Municipality	2012	2020	500 000						
Energy infrastructures planning	6.6. Transfer of electricity consumption from peak to off-peak hours, through the accumulation of cold in hotels (ice banks), vehicle battery charging and changing hours of operation of consuming equipments, to maximize the share of intermittent renewable energy in the electricity grid.	• Companies • Citizen	2013	2020	300 000						
Renewable energy land use planning	6.7. Assessment of the potential of renewable energy resources, development of forecasting models of intermittent renewable sources and study of dynamic behaviour of the electricity grid.	• Regional Government • AREAM • EEM	2012	2015	50 000						
	6.8. Land use planning of wind farms, photovoltaic and other renewable energy installations, based on the assessment of the potential of the resources, the dynamic behaviour of the electricity grid and the constraints in a territorial scope.	• Regional Government • Municipality • AREAM • EEM	2014	2015	50 000						
Overall actions											
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES											
Energy efficiency requirements/standards	7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works, goods and services.	• Regional Government • Municipality • Companies	2012	2020							
Renewable energy requirements/standards	7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, goods and services.	• Regional Government • Municipality • Companies	2012	2020							
Overall actions											
CITIZENS AND STAKEHOLDERS											
Advisory services	8.1. Creation of an information helpline and a forum with questions and answers, based on an e-learning platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of renewable energy and reduction of CO2 emissions.	• Regional Government • AREAM	2012	2020	18 300						
Financial support and grants	8.2. Financial support for public promoters and non-profit organizations to implement the actions of the Sustainable Energy Action Plan.	• DR	2012	2020							
	8.3. Financial incentive for business promoters to implement voluntary energy efficiency measures, use of renewable energy for own consumption and reduction of CO2 emissions.	• IDE-RAM	2012	2020							
	8.4. Financial incentive for residential promoters to implement voluntary energy efficiency measures, use of renewable energy for own consumption and reduction of CO2 emissions.	• Regional Government	2013	2020							

	8.5. Reduction of public parking fees for electric vehicles.	• Municipality	2012	2015							
	8.6. Promotion and support in the preparation and negotiation of energy service contracts and specific financial systems for energy efficiency and renewable energy, with energy services companies and credit institutions.	• Regional Government • AREAM	2012	2015	1 500						
Awareness raising and networking	8.7. Awareness-raising campaigns for adoption of passive measures in buildings, purchase of efficient equipment, installation of control devices, use of renewable energy for own consumption, sustainable mobility, monitoring of consumptions and adoption of more efficient practices directed mainly at the residential and services sectors, involving associations and the media.	• Regional Government • AREAM	2012	2020	12 500						
	8.8. Development of cooperation projects in the energy domain with other regions, in particular with outermost island regions presenting similar problems.	• Regional Government • AREAM	2012	2020	75 000						
	8.9. Elaboration of awareness-raising guides and brochures on urban regeneration, mobility, energy efficiency and use of renewable energy aimed at energy consumers, promoters/developers and professionals.	• AREAM	2013	2015	3 750						
	8.10. Promotion of cooperation activities in the energy field between public regional and local administration, research institutes, business associations, companies, credit institutions, NGOs and the media.	• Regional Government • AREAM	2012	2020	1 000						
Training and education	8.11. Development of educational material, awareness-raising and information sessions, and other educational activities on sustainable energy, involving students and teachers.	• Regional Government • AREAM	2012	2020	3 750						
	8.12. Introduction of eco-driving habits in training of driving school students and in complementary training of fleet drivers.	• Regional Government • Companies	2012	2020	1 000						
	8.13. Training of technicians for installation and maintenance of heating, cooling and ventilation (HVAC) systems, hot water production and other energy systems.	• Companies • Business associations	2012	2020	5 000						
Monitoring	8.14. Installation of systems for monitoring and managing energy consumption in the residential sector and in services buildings.	• EEM • Companies • Citizen	2012	2020	20 000						
Legislation	8.15. Increase of supervision/inspection on applicable energy efficiency regulation (SGCIE).	• Regional Government	2012	2020	450						
	8.16. Increase of supervision/inspection on applicable energy efficiency regulation (SCE).	• Regional Government • Municipality • AREAM	2012	2020	6 750						
	8.17. Preparation of a master plan for street lighting, to define efficiency and control requirements in new projects.	• EEM • Municipality • IPM • AREAM	2012	2012	2 500						
Overall actions											
OTHER SECTORS (please specify)											
...											
...											
...											
...											
...											
TOTAL					41 669 317	8 195	13 818	14 174	8 195	13 818	14 174

3) WEBSITE

Direct link to the webpage dedicated to ISEAP (if any)

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