

www.islepact.eu

Island Madeira

# **OVERALL STRATEGY**

Mandatory fields

# 1) OVERALL CO2 EMISSION REDUCTION TARGET BY 2020



# 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	Steering Committee:
	- 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).
	Advisory Committee: constituted by representatives of stakeholders.
Staff capacity allocated	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.
	Technicial 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.

Involvement of stakeholders and citizens	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.
	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 the environment.
	environment.
Overall estimated budge	884 million euros until 2020 - 31,1% citizens; 33,1% public companies; 32,8% private companies and organizations; 2,3% Regional Government; 0,7% Municipalities.
Foreseen financing sources for the investments within your action	The financing sources are:
plar	
pia.	- Municipal Budget.
	- Own funds.
	- European Investment Bank.
	- Bank loan.
	- Energy Service Companies (ESCO).
	- Public-private partnerships.
	The support instruments are:
	- Operational Programmes (Intervir+ e Rumos).
	- Incentive Systems (Qualificar+, SI Turismo, etc.).
	- European programmes.
	- Energy Efficiciency Fund.
	- Tax benefits.
	- Special tariffs.
Planned measures for monitoring and follow up	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.
	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.
	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.

## Go to the next sheet dedicated to your Baseline Emission Inventory

DISCLAIMER: The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the European Communities. The European Communities is not responsible for any use that may be made of the information contained therein.



ww.islepact.eu Island Madeira Inventory year 2009

#### **BASELINE EMISSION INVENTORY**

1) GENERAL DATA	
Number of inhabitants <b>262 456</b> (2009)	
CO2 calculation method IPCC emission factors	

### 2) RESULTS OF ENERGY BALANCE

FINAL ENERGY DEMAND

[MWh]

Mandatory fields

DEMAND SECTOR									E	NERGY FOR	FINAL USE								
		Centralized en	nergy services					Fossil fuels					Renewable en	ergy sources (	excluding electrici	ty and heat sol	d to public networ	ks)	
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	TOTAL
RESIDENTIAL	259 265			259 265				202 603			202 603			24 683			55 191	79 874	541 74
Hot water	27 970			27 970				118 309			118 309			24 683			6 724	31 407	177 68
Heating and cooling	16 610			16 610				8 759			8 759						41 273	41 273	66 64
Lighting	57 751			57 751															57 75
Cooking	21 488			21 488				75 535			75 535						7 194	7 194	104 21
Refrigerator and freezers	42 871			42 871															42 87
Laundry machines and dryers	22 143			22 143															22 14
Dish washing	9 366			9 366															9 36
Tv sets	32 515			32 515															32 51
Other electric appliances	28 551			28 551															28 55
PRIMARY SECTOR	11 108			11 108		17 488		3 438			20 926								32 034
Agriculture, forestry and fishing	6 413			6 413		10 465		3 438			13 903								20 31
Mining and quarrying	4 696			4 696		7 023					7 023								11 71
SECONDARY SECTOR	79 972	11 192	!	91 164	23 121	10 335		8 232			41 688						5 058	5 058	137 91
Manufacturing	47 958	11 192	!	59 150	18 520	1 111		7 357			26 988						5 058	5 058	91 19
Water supply, sewerage, waste management and remediation activities	18 039			18 039		693					693								18 73
Construction	13 975			13 975	4 601	8 5 3 1		875			14 007								27 982
TERTIARY SECTOR	492 557			492 557	12 097	9 832	2 820	125 918			150 667			2 303			1 686	3 989	647 213
Wholesale and retail trade; repair of motor vehicles and motorcycles	115 459			115 459															115 45
Accommodation and food service activities	150 856			150 856	1 614	3 912		93 673			99 199			1 330			1 686	3 016	253 07:
General public administration and social security	33 853			33 853				10 456			10 456								44 30
Defence, justice, police and fire departments	1 364			1 364	1 132			640			1772								3 13
Education	9 788			9 788				2 161			2 161			189				189	12 13
Human health and social work activities	12 902			12 902	8 479	210		8 134			16 823			530				530	30 25
Other services	87 477			87 477	872	5 710	2 820	10 854			20 256			254				254	107 98
Public lighting	80 859			80 859															80 859
TRANSPORTS	22			22		1 151 345	503 455				1 654 800								1 654 82
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	22			22		94 250					94 250								94 27
Freight transport by road and removal services						101 126					101 126								101 12
Other fleet for public and private services						37 491	12 651				50 142								50 14
Private transports						918 478	490 804				1 409 282								1 409 28
TOTAL FOR INTERNAL MARKET	842 924	11 192		854 116	35 218	1 189 000	506 275	340 191			2 070 684			26 986			61 935	88 921	3 013 72
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	842 924	11 192		854 116	35 218	1 189 000	506 275	340 191			2 070 684			26 986			61 935	88 921	3 013 72

#### SECONDARY ENERGY PRODUCTION AND ENERGY FLUXES

[MWh]

																												[
PRODUCTION SECTOR				Fossil fu	els			EN	ERGY SOURCE		e energy sources (fr	rom systems o	onnected to p	iblic networks)				SECOP	NDARY ENERGY CONVE	RSION	Si	itorage	ENERGY External					Distribution losses
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Subtotal	Electricity conversion to cold	Heat conversion to cold	Subtotal	Input to storage	Output from storage	Import to island	Export from island	Reexportation and external consumption	Subtotal	TOTAL	and self- consumption
Electricity	708 238	4 00	9				712 247	139 639	36 905	289				36 512		213 345	925 592	2			1 051	1 736	5			-315	925 276	82 352
Heat															11 192	11 192	11 19	2									11 192	
Cold																												
TOTAL	708 238	4 00	9				712 247	139 639	36 905	289				36 512	11 192	224 537	936 784	4			1 051	I 736	5			-315	936 468	82 352

#### PRIMARY ENERGY CONVERTED TO SECONDARY ENERGY (primary energy consumption)

[MWh]

I MINIMAN LINENGI COMVENIED		OHDAN		(C) (P)	, 、		onsampe	.0,										[]
PRODUCTION SECTOR								PRIMAR	Y ENERGY SOU	RCE								Conversion
				Fossil fuels							Renew	able energy s	ources					losses from
Energy product	Fueloil	Fueloil Diesel Gasoline LPG Natural gas Coal Subtotal Hydro Wind Solar Geothermal Ocean Biomass Urban waste Energy recovery Subtotal															TOTAL	primary to secondary energy
Electricity	1 718 129	9 727					1 727 856	139 639	36 905	289				36 512		213 345	1 941 201	1 015 609
Heat																		-11 192
Cold																		
TOTAL	1 718 129	9 727	1				1 727 856	139 639	36 905	289				36 512		213 345	1 941 201	1 004 417

PRIMARY ENERGY DEMAND [MWh]

THE PARTY OF PERSONS																							[
												PRIMARY	Y ENERGY SOUR	CE									
Energy product				Fossil fuels							Renew	able energy s	ources					Ele	ectricity		Heat	Cold	
Energy product	y product																Imported	Exported	Reexportation and		Reexportation and	Decementation and	TOTAL
	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	electricity	electricity	external	Subtotal	external	external consumption	TOTAL
																	(cable)	(cable)	consumption		consumption	external consumption	
TOTAL	1 753 347	1 198 727	506 275	340 191			3 798 540	139 639	36 905	27 275			61 935	36 512		302 266						!	4 100 806

ı	ENERGY CONVERSION EFFICIEN	CY																[%]
	PRODUCTION SECTOR								PRIMAR	Y ENERGY SOL	IRCE							
					Fossil fuels	:						Renew	able energy s	ources				
E	nergy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
E	lectricity	41%	41%	-	-	-	-	41%	100%	100%	100%	-	-		100%	-	100%	48%
Н	eat	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-
C	old	-		-		-	-	-		-	-	-	-			-		-

### 3) RESULTS OF EMISSION INVENTORY

CO2 EMISSIONS FROM FINAL USE [t CO2]

DEMAND SECTOR									EI	NERGY FOR I	FINAL USE								
		Centralized en	nergy services					Fossil fuels					Renewable er	ergy sources (	(excluding electrici	ty and heat sol	d to public netwo	rks)	
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	TOTAL
RESIDENTIAL	149 421			149 421				48 625			48 625								198 046
Hot water	16 120			16 120				28 394			28 394								44 514
Heating and cooling	9 573			9 573				2 102			2 102								11 675
Lighting	33 283			33 283															33 283
Cooking	12 384			12 384				18 128			18 128								30 512
Refrigerator and freezers	24 708			24 708															24 708
Laundry machines and dryers	12 762			12 762															12 762
Dish washing	5 398			5 398															5 398
Tv sets	18 739			18 739															18 739
Other electric appliances	16 455			16 455															16 455
PRIMARY SECTOR	6 402			6 402		4 669		825			5 494								11 896
Agriculture, forestry and fishing	3 696			3 696		2 794		825			3 619								7 315
Mining and quarrying	2 706			2 706		1 875					1875								4 581
SECONDARY SECTOR	46 090			46 090	6 451	2 759		1 976			11 186								57 276
Manufacturing	27 639			27 639	5 167	297		1 766			7 229								34 869
Water supply, sewerage, waste management and remediation activities	10 396			10 396		185					185								10 581
Construction	8 054			8 054	1 284	2 278		210			3 771								11 825
TERTIARY SECTOR	283 873			283 873	3 3 7 5	2 625	702	30 220			36 923								320 796
Wholesale and retail trade; repair of motor vehicles and motorcycles				66 542															66 542
Accommodation and food service activities	86 942			86 942	450	1 045		22 482			23 976								110 918
General public administration and social security	19 510			19 510				2 509			2 509								22 020
Defence, justice, police and fire departments	786			786	316			154			469								1 255
Education	5 641			5 641				519			519								6 159
Human health and social work activities	7 436			7 436	2 366	56		1 952			4 3 7 4								11 810
Other services	50 415			50 415	243	1 525	702	2 605			5 075								55 490
Public lighting	46 601			46 601															46 601
TRANSPORTS	13			13		307 409	125 360				432 769								432 782
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	13			13		25 165					25 165								25 178
Freight transport by road and removal services						27 001					27 001								27 001
Other fleet for public and private services						10 010	3 150				13 160								13 160
Private transports						245 234	122 210				367 444								367 444
TOTAL FOR INTERNAL MARKET	485 799			485 799	9 826	317 463	126 062	81 646			534 997								1 020 796

CO2 EMISSIONS FROM PRODUC	TION																[t CO2]
PRODUCTION SECTOR								PRIMAR	Y ENERGY SOU	RCE							
				Fossil fuels	:						Renew	able energy so	ources				
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	479358	2597					481 955							3844		3 844	485 799

[t Co	02/MWh]
Energy product	CO2 EMISSION FACTORS
Electricity	0,525
Heat	
Cold	

CO2 EMISSIONS [t CO2]

COZ EIVIISSIONS																							լլ (ՄՀյ
												PRIMARY	Y ENERGY SOUP	RCE									
				Fossil fuels							Renew	able energy s	ources					El	ectricity		Heat	Cold	
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery		Imported electricity (cable)	Exported electricity (cable)	Reexportation and external consumption	Subtotal	Reexportation and external consumption	Reexportation and external consumption	TOTAL
TOTAL	489 184	320 060	126 062	81 646			1 016 952							3 844		3 844							1 020 796

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

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



www.islepact.eu Island Madeira Inventory year 2020

## PLAN EMISSION INVENTORY IN 2020 (implementing sustainable energy actions)

_					
١١.	GFN	IED	A I I	DV.	TΛ
	UTI	4 F K	4	IJА	IΑ

Mandatory fields

Number of inhabitants 287 044 (2020)
CO2 calculation method IPCC emission factors

### 2) RESULTS OF ENERGY BALANCE

#### FINAL ENERGY DEMAND

DEMAND SECTOR									ENE	ERGY FOR FIN	AL USE								
		Centralized	energy services					Fossil fuels					Renewable en	nergy sources (	excluding electricit	ty and heat solo	to public network	s)	
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	TOTAL
RESIDENTIAL	277 640			277 640				164 301			164 301			71 280			26 739	98 019	539 960
Hot water	22 839			22 839				82 769			82 769			71 280			2 687	73 967	179 574
Heating and cooling	16 913			16 913				7 112			7 112						21 177	21 177	45 202
Lighting	59 051			59 051															59 051
Cooking	30 115			30 115				74 420			74 420						2 875	2 875	107 410
Refrigerator and freezers	46 704			46 704															46 704
Laundry machines and dryers	25 290			25 290															25 290
Dish washing	10 203			10 203															10 203
Tv sets	35 422			35 422															35 422
Other electric appliances	31 104			31 104															31 104
PRIMARY SECTOR	13 172			13 172		20 738		4 077			24 815								37 987
Agriculture, forestry and fishing	7 604			7 604		12 410		4 077			16 487								24 091
Mining and quarrying	5 568			5 568		8 328					8 328								13 896
SECONDARY SECTOR	75 568	15 141		90 709	12 901	10 204		5 979			29 084			2 261			4 391	6 652	126 445
Manufacturing	40 612	15 141		55 753	8 343	941		5 112			14 395			2 261			4 391	6 652	76 800
Water supply, sewerage, waste management and remediation	21 110			21 110		811					811								21 921
activities	21 110			21 110		011					811								21 321
Construction	13 846			13 846	4 559	8 452		867			13 878								27 724
TERTIARY SECTOR	631 557			631 557	10 308	13 333	4 341	129 634			157 616			23 517			2 3 1 6	25 834	815 006
Wholesale and retail trade; repair of motor vehicles and motorcycles	168 235			168 235															168 235
Accommodation and food service activities	179 804			179 804	1 616	4 355		96 707			102 677			16 724			2 316	19 040	301 522
General public administration and social security	30 440			30 440				9 402			9 402								39 842
Defence, justice, police and fire departments	1 226			1 226	1 018			575			1 593								2 820
Education	7 078			7 078				220			220			3 418				3 418	10 716
Human health and social work activities	11 601			11 601	6 332	189		6 022			12 543			2 984				2 984	27 128
Other services	127 470			127 470	1 342	8 790	4 341	16 708			31 180			391				391	159 041
Public lighting	105 703			105 703															105 703
TRANSPORTS	2 074			2 074		959 752	417 265				1 377 017						5 106	5 106	1 384 197
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	466			466		72 508					72 508						5 106	5 106	78 080
Freight transport by road and removal services						94 111					94 111								94 111
Other fleet for public and private services	146			146		34 277	11 773				46 050								46 196
Private transports	1 461			1 461		758 857	405 492				1 164 349								1 165 810
TOTAL FOR INTERNAL MARKET	1 000 012	15 141		1 015 152	23 209	1 004 028	421 606	303 990			1 752 833			97 058			38 552	135 611	2 903 596
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)														1					
TOTAL	1 000 012	15 141		1 015 152	23 209	1 004 028	421 606	303 990			1 752 833			97 058			38 552	135 611	2 903 596

#### SECONDARY ENERGY PRODUCTION AND ENERGY FLUXES

Г	۱л	۱,	14	١.

SECONDAIN ENERGY I NODOCI	1011 711	D LITE!		, ALU																								[]
PRODUCTION SECTOR								ENEF	RGY SOURCE									SECON	NDARY ENERGY CONVERSION	ON			ENERGY	FLUXES				
				Fossil fuels						Renewable	energy sources (fro	om systems co	nnected to pub	lic networks)							S	torage	External	connection				Distribution losses
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Subtotal	Electricity conversion to cold	Heat conversion to cold	Subtotal	Input to storage	Output from storage	Import to island	Export from island	Reexportation and external consumption	Subtotal	TOTAL	and self- consumption
Electricity	235 313	4 009			300 000		539 323	194 389	186 701	30 949	12 600	13 140	64 800	36 512		539 091	1 078 414				44 107	30 87	5			-13 232	1 065 182	65 170
Heat															15 141	15 141	15 141										15 141	
Cold																												
TOTAL	235 313	4 009			300 000		539 323	194 389	186 701	30 949	12 600	13 140	64 800	36 512	15 141	554 231	1 093 554				44 107	30 87	5			-13 232	1 080 322	65 170

#### PRIMARY ENERGY CONVERTED TO SECONDARY ENERGY (primary energy consumption)

#### [MWh]

THE TAXABLE PROPERTY OF THE PARTY OF THE PAR		J. 1. D. 1. 1. 1		o. (p	, cc	67		٠,										[
PRODUCTION SECTOR								PRIMARY I	ENERGY SOUR	CE								Conversion
				Fossil fuels							Renewa	ble energy sou	irces					losses from
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL	primary to secondary energy
Electricity	570 852	9 727			714 286		1 294 865	194 389	186 701	30 949	12 600	13 140	162 000	36 512		636 291	1 931 155	852 742
Heat																		-15 141
Cold																		
TOTAL	570 852	9 727			714 286		1 294 865	194 389	186 701	30 949	12 600	13 140	162 000	36 512		636 291	1 931 155	837 601

PRIMARY ENERGY DEMAND [MWh]

Littlier Dliving																							[
												PRIMARY EN	ERGY SOURCE										
Energy product				Fossil fuels							Renewa	ble energy so	urces					Ele	ctricity		Heat	Cold	
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	Imported electricity	Exported electricity	Reexportation and external	Subtotal	Reexportation and external	Reexportation and external consumption	TOTAL
																	(cable)	(cable)	consumption		consumption	,	
TOTAL	594 061	1 013 754	421 606	303 990	714 286		3 047 698	194 389	186 701	128 008	12 600	13 140	200 552	36 512		771 902							3 819 599

ENERGY CONVERSION EFFICIEN	CY																[%]
PRODUCTION SECTOR								PRIMARY	ENERGY SOUR	CE							
				Fossil fuels							Renewa	ble energy sou	ırces				
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	41%	41%	-	-	42%	-	42%	100%	100%	100%	100%	100%	40%	100%	-	85%	56%
Heat	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Cold	-		-	-	-			-	-	-		-	-	-			

### 3) RESULTS OF EMISSION INVENTORY

CO2 EMISSIONS FROM FINAL USE [t CO2]

DEMAND SECTOR									ENE	RGY FOR FIN	AL USE								
		Centralized (	energy services					Fossil fuels					Renewable er	nergy sources	(excluding electrici	ty and heat sol	d to public netwo	rks)	
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	TOTAL
RESIDENTIAL	86 066			86 066				39 432			39 432								125 498
Hot water	7 080			7 080				19 864			19 864								26 944
Heating and cooling	5 243			5 243				1 707			1 707								6 950
Lighting	18 305			18 305															18 30
Cooking	9 335			9 335				17 861			17 861								27 19
Refrigerator and freezers	14 478			14 478															14 478
Laundry machines and dryers	7 840			7 840															7 840
Dish washing	3 163			3 163															3 163
Tv sets	10 980			10 980															10 980
Other electric appliances	9 642			9 642															9 642
PRIMARY SECTOR	4 083			4 083		5 537		978			6 515								10 599
Agriculture, forestry and fishing	2 357			2 357		3 313		978			4 292								6 649
Mining and quarrying	1 726			1 726		2 224					2 224								3 950
SECONDARY SECTOR	23 425			23 425	3 599	2 725		1 435			7 759								31 184
Manufacturing	12 589			12 589	2 328	251		1 227			3 806								16 39
Water supply, sewerage, waste management and remediation activities	6 544			6 544		217					217								6 760
Construction	4 292			4 292	1 272	2 257		208			3 737								8 029
TERTIARY SECTOR	195 777			195 777	2 876			31 112			38 629								234 405
Wholesale and retail trade; repair of motor vehicles and motorcycles	52 151			52 151															52 15
Accommodation and food service activities	55 738			55 738	451	1 163		23 210			24 823								80 56:
General public administration and social security	9 436			9 436				2 256			2 256								11 693
Defence, justice, police and fire departments	380			380	284			138			422								802
Education	2 194			2 194				53			53								2 247
Human health and social work activities	3 596			3 596	1 767	50		1 445			3 262								6 859
Other services	39 514			39 514	374	2 347	1 081	4 010			7 812								47 320
Public lighting	32 767			32 767															32 767
TRANSPORTS	643			643		256 254	103 899				360 153								360 796
Passenger road transport (public transports, taxi, tourism, school buses, etc.)	145			145		19 360					19 360								19 504
Freight transport by road and removal services						25 128					25 128								25 128
Other fleet for public and private services	45			45		9 152	2 932				12 083								12 129
Private transports	453			453		202 615	100 967				303 582								304 035
TOTAL FOR INTERNAL MARKET	309 994			309 994	6 475	268 075	104 980	72 958			452 488								762 483

CO2 EMISSIONS FROM PRODUC	CTION																[t CO2]
PRODUCTION SECTOR								PRIMARY	ENERGY SOUR	CE							
				Fossil fuels							Renewa	able energy so	urces				
Energy product	Fueloil	Diesel	Gasoline	LPG	Natural gas	Coal	Subtotal	Hydro	Wind	Solar	Geothermal	Ocean	Biomass	Urban waste	Energy recovery	Subtotal	TOTAL
Electricity	159268	2597			144286		306 151							3844		3 844	309 99
Heat																	
Cold																	
TOTAL	159 268	2 597			144 286		306 151							3 844		3 844	309 99

	[t CC	02/MWh]
Energy product		CO2 EMISSION FACTORS
Electricity		0,287
Heat		
Cold		

CO2 EMISSIONS																							[t CO2]
												PRIMARY EN	NERGY SOURCE	E									
				Fossil fuels							Renewa	ble energy so	ources					Ele	ectricity		Heat	Cold	
Energy product	Fueloil	Diesel	Gasoline		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	165 743	270 672	104 980	72 958	144 286		758 639							3 844		3 844							762 482
																•							

[t CO2]
CO2 emissions from ETS installations included in the alculations for final use of energy conduction included in the calculations for secondary energy production

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



www.islepact.eu

# Island Madeira

Mandatory fields

## 1) TITLE OF ISLAND SUSTAINABLE ENERGY ACTION PLAN

Island Sustainable Energy Action Plan of Madeira

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

Date of formal	approval	
Date of formal	approvar	

# 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]	INGS [MWh/year] INCREASE		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	[curoj		[MWh/year]	[ton/year]	[,,,]	2020 [, year]	(tony year)
RESIDENTIAL											
Hot water	1.1. Installation of solar collectors for water heating (domestic hot water, swimming pools and washing machines).	<ul><li>Citizen</li><li>Companies</li></ul>	2012	2020	50 000 000	12 079	41 671	16 322			
not water	1.2. Purchase of high performance equipment and adoption of more efficient behaviour	Citizen	2012	2020	5 000 000	13 749		4 551			
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	150 000 000	4 331		2 463			
	1.4. Use of biomass products (wood bricks, pellets, etc.) for heating.	Citizens	2016	2020	5 000 000	1 740	4 683	3 611			
	1.5. Installation of energy efficient lamps, lighting fixtures and control devices, and adoption of more efficient behaviour.	Citizens	2012	2020	6 000 000	8 295		5 890			
Lighting	1.6. Campaigns to provide energy efficient lamps and control devices (light and movement sensors).	<ul><li>EEM</li><li>AREAM</li><li>Citizen</li></ul>	2012	2015	2 000 000	1 756		1 246			
Cooking	1.7. Acquisition of high performance kitchen equipment and adoption of more efficient behaviour.	• Citizen	2012	2020	6 250 000	11 756		741	67 460	46 354	44 589
Refrigerator and freezers	1.8. Acquisition of high performance refrigerators and freezers, and adoption of more efficient behaviour.	Citizen	2012	2020	4 000 000	4 723		3 354			
Laundry machines and dryers	1.9. Acquisition of high performance laundry machines and dryers, use of solar heated water and adoption of more efficient behaviour.	• Citizen	2012	2020	500 000	1 272		902			
Dish washing	1.10. Acquisition of high performance dish washing machines, use of solar heated water and adoption of more efficient behaviour.	• Citizen	2012	2020		1 032		733			
Tv sets	1.11. Acquisition of televisions with less energy consumption and less use of stand-by mode.	Citizen	2012	2020		3 582		2 543			
Other electric appliances	1.12. Acquisition of electrical appliances (computers, printers, router, sound, etc.) with less energy consumption and less use of stand-by mode.	• Citizen	2012	2020		3 145		2 233			
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, optimizing conditions of use and adoption of more efficient behaviour.	• Companies	2012	2020	3 700 000	2 364	2 261	1 292			

	1	Ī	1	1					2 913	2 261	1 674
Water supply, sewerage, waste management and remediation activities	2.2. Installation of more efficient equipment for pumping stations and waste water treatment.	IGA     Municipalities	2012	2020	439 200	549		381			
Construction											
Overall actions											
TERTIARY SECTOR											
Wholesale and retail trade; repair of motor	3.1. Installation of efficient lamps and lighting fixtures, and control devices.	Companies	2012	2020	400 000	985		699			
vehicles and motorcycles	3.2. Monitoring of consumptions and adoption of more efficient behaviour when using heating and cooling systems, lighting and other equipment.	Companies	2012	2020		8 485		6 025			
	3.3. Adoption of passive measures in the envelope of buildings and swimming pools (thermal insulation of new and existing buildings, shading, natural ventilation, thermal covers in heated swimming pools).	Companies	2012	2020	11 551 467	14 439		7 754			
Accommodation and food service activities	3.4. Installation of solar collectors for hot water (hot water, swimming pools and washing machines).	Companies	2012	2020	12 446 400	660	14 898	3 698			
	3.5. Installation of control (motors, lighting) and energy management systems, and acquisition of efficient heating and cooling systems, hot water, lighting and refrigeration.	Companies	2012	2020	8 663 600	14 439		7 754			
	3.6. Monitoring of consumptions and adoption of more efficient behaviours when using heating and cooling systems, hot water, lighting, refrigeration and kitchens.	Companies	2012	2020		14 439		7 754			
General public administration and social security	3.7. Energy efficiency programme in public services – monitoring of consumptions, energy audits, adoption of energy efficiency measures, use of renewable energies and adoption of more efficient behaviour.	Regional Government     EEM     AREAM	2013	2020	6 537 600	8 172		4 890			
Defence, justice, police and fire departments	3.8. Energy efficiency programme in public services – monitoring of consumptions, energy audits, adoption of energy efficiency measures, use of renewable energies and adoption of more efficient behaviour	Regional Government     EEM     AREAM	2013	2020	462 400	578		264	99 079	20 521	65 433
Education	3.9. Energy efficiency programme in public services – monitoring of consumptions, energy audits, adoption of energy efficiency measures, use of renewable energies and adoption of more efficient behaviour	Regional Government     EEM     AREAM	2013	2020	4 519 200	2 436	3 213	3 006			
Human health and social work activities	3.10. Energy efficiency programme in public services – monitoring of consumptions, energy audits, adoption of energy efficiency measures, use of renewable energies and adoption of more efficient behaviour.	Regional Government     EEM     AREAM	2013	2020	6 453 600	5 657	2 410	3 145			
	3.11. Installation of efficient lamps and lighting fixtures, and control devices.	Companies	2012	2020	300 000	739		525			
Other services	3.12. Monitoring of consumptions and adoption of more efficient behaviour when using heating and cooling systems, lighting and other equipment.	Companies	2012	2020		6 429		4 566			
Public lighting	3.13. Programme for energy efficiency in public services – substitution of existing lamps and lighting fixtures of low efficiency, installation of control and management systems.	EEM     AREAM     Municipalities     IPM	2012	2020	4 324 000	21 620		15 353			
Overall actions											
TRANSPORTS											
Passenger road transport (public transports taxi, tourism, school buses, etc.)	4.1. Energy efficiency programme in public services – renewal of public , transport fleets, with the introduction of more efficient technologies, vehicles of smaller capacity and electric vehicles, use of biofuels and adoption of more efficient driving habits.	Companies	2012	2020	17 520 000	11 785	5 106	4 244			
Freight transport by road and removal services											
Other fleet for public and private services	4.2. Energy efficiency programme in public services – introduction of electric vehicles in public service fleets and adoption of more efficient driving habits.	Regional Government     Municipalities	2012	2020	2 000 000	234		29	157 959	5 106	41 061
	4.3. Acquisition of electric vehicles and adoption of more efficient driving habits.	Companies	2012	2020	2 000 000	234		29			
Private transports	4.4. Acquisition of electric vehicles and adoption of more efficient driving habits.	Citizen	2012	2020	40 000 000			539			
Overall actions	4.5. Use of public transport.	Citizen	2012	2020		141 032		36 220			
SECONDARY ENERGY PRODUCTION AND EI	NEDGA ELLIAEZ										
	5.1. Introduction of natural gas in thermal power generation										
Electricity (non-renewable)	(construction of natural gas terminal).	• EEM	2012	2016	105 000 000			57 884			
Heat (non-renewable)	ļ		I	I						l l	

Property	Cold (non-renewable)	T	<u> </u>	<u> </u>							ı ı	
Page   1999	cold (Horr renewable)	5.2 lands of the state of the s										
The company of the co	Hydro		• EEM	2012	2020	120 000 000		54 750	36 331			
March   Company   Compan	Wind		•	2011	2020	54 000 000		149 796	99 948			
1	Solar			2011	2020	53 654 000		30 660	20 480			
	Geothermal	5.5. Installation of an induced geothermal pilot power plant.	Companies	2018	2020	18 900 000		12 600	8 401		422.045	205 500
Marie   2.5   Proceedance of colds   Souther of the colds   Southe	Ocean			2018	2020	7 050 000		13 140	8 761	31 542	422 946	296 509
A Transport of the Committee of the Co			Companies	2013	2015	113 400 000		162 000	43 676			
Signature (Control Control Con	Biomass		Companies	2015	2020	1 500 000						
Commission   1.0										•		
Substitution of the content of an extraction of a ext				+	<u> </u>							
Control statistics of an incommon of control processing of the control of the con		5.9. Renewal of infrastructures and equipment of electricity transmision										
Section   Comparison   Compar			• EEM	2012	2020	45 000 000	31 542		21 029	•		
S.   Indegrace of a foreign and more than the contract of termination of every present of the executor of the secundary of the contract of termination of termination of the executor of the secundary of the executor of th	Overall actions											
Regional and local bit large planning and incompared the minimation of energy method.  A Programmer and an expectation and selection of the compared of Management and an expectation and e	LAND USE PLANNING											
exception of the Community of Mayors.  G. Presentation of mobility claiming  Community in white content, and it accurs putific conditioning and park by it without content, and it accurs putific transport, exceptic verifices, and it contents and probably claiming and park by it without content, and it accurs putific transport and intention of draging latinatural transfer describ, verification.  4. As consideration of draging latinatural transfer describ, verification.  4. As consideration of draging latinatural transfer describ, verification.  4. As consideration of draging latinatural transfer describ, verification.  4. As consideration of draging latinatural transfer describ, verification.  4. As consideration of draging latinatural transfer described in the described probably and consideration of the verification.  4. As consideration of the consideration of the verification of the verification of the verification of the verification of the verification.  4. As consideration of the verification of the verific	Regional and local strategic planning	regulations that encourage the minimization of energy needs in	Regional Government	2012	2020							
animpin unknown centre, and feronce public trasport, electric vehicles.  Transports and modify planning  As installation of charging infrastructures for electric vehicles.  As installation of planning in the vehicle of electricity consumption from peak of the burnty in the vehicle of electricity in the vehicle of e			Municipalities	2012	2015	300 000						
Les installation of charging infrastructures for electric wholes.  A. Installation of power stabilization systems to miligate the electricity and an electricity and an electricity consumption is many group recipion in every general production from wholes the part of the electricity and an electricity consumption from peak to off-peak hours, through the excumulation of cell in incise (see basis), which be bastery through the excumulation of cell in incise (see basis), which be bastery through the excumulation of cell in incise (see basis), which be bastery through the excumulation of cell in incise (see basis), which be bastery through the excumulation of cell in incise (see basis), which be bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery through the excumulation of cell in incise (see basis), which is bastery to the effectively general through the excumulation of cell in incise (see basis), which is bastery to the effectively general through the excumulation of the electricity general and through the electricity general and through the excumulation of the electricity general and through the electricity general	Transports and mobility planning	parking in urban centre, and favours public transport, electric vehicles,	Municipalities	2012	2015	550 000						
disruption in energy production from wind and olar photovoltats in a feetending year.  Exercy infractivitures planning the accumulation of cubit in hostic the charts, yearlise buttery of most interesting the accumulation of cubit in hostic the charts, yearlise buttery of matrices the butter of interestines renewable energy in the electricity of common of the control of the contr		6.4 Installation of charging infrastructures for electric vehicles.	Municipalities	2012	2020	750 000						
the electricity grad.  G.D. Transfer of electricity consumption from posts to off prick hours, through the accumulation of role in horte-(see hasks), which battery infrastructures planning  Finergy infrastructures planning  Energy infrastructures planning  EEM  C.A. Auscument of the potential of remember energy installations, based on the assessment of the potential of the electricity grid and the constraints in a territorial scope.  EEM  Operall accions  PRIBLE PRODUCTS AND SIRVICES  ECM  EEM  APACAM  2012  2015  2010  2015  2010  2015  2010  EEM  ARCAM  EEM  ARCAM  EEM  ARCAM  ARCAM  EEM  ARCAM  ARCAM  ARCAM  ARCAM  ARCAM  ARCAM  EEM  ARCAM  ARCAM  EEM  ARCAM  ARCAM  ARCAM  ARCAM  ARCAM  A		6.5. Installation of power stabilization systems to mitigate the										
through the accumulation of cod in hotels (ice banks), which battery changing and changing plous of operation for crissuring cuplines flowers and industries, through a hot water network or through heat accumulation containes;  6.7. Fessibility study on heat recovery from thermal power station in Victoria for Industries and industries, through a hot water network or through heat accumulation containes;  6.8. Assessment of the potestial of renewable energy resources, development of forexasting models of intermittent renewable sources and study of symmet behaviour of the electricity grid.  6.9. Industrial production of the electricity grid.  6.9. Industrial production of the electricity grid and the renewable energy that dues planning of wind farms, photovortain and other renewable energy intrailations.  6.9. Industrial production of the electricity grid and the consurres, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the resources, the dynamic behaviour of the electricity grid and the reso		1	• EEM	2012	2015	8 000 000						
Victoria for hotels and industries, through a hot water network or through heat accumulation containers.  6.8. 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.  6.9. Land use planning of wind farms, photovoltac and other enewable energy shand use planning of wind farms, photovoltac and other enewable energy industrials, based on the seasoment of the potential of the recourses, the dynamic behaviour of the electricity grid and the constraints in a territorial scope.  6.9. Land use planning of wind farms, photovoltac and other enewable energy standing, based on the assessment of the potential of the recourses, the dynamic behaviour of the electricity grid and the constraints in a territorial scope.  6.8. ASSEMM 2014 2015 250 000  6.9. Land use planning of wind farms, photovoltac and other enewable energy efficiency in the recourses, the dynamic behaviour of the electricity grid and the constraints in a territorial scope.  6.8. Elem 2014 2015 150 000  6.9. Land use planning of wind farms, photovoltac and other enewable energy efficiency requirements in a territorial scope.  6.8. Elem 2014 2015 2010 2014 2015 150 000  6.9. Land use planning of wind farms, photovoltac and other enewable energy efficiency requirements for procurement of works, arquisition of goods and services.  7.1. Definition of standards and criteria for one grid energy in energy efficiency, in the specifications of tender documents for procurement of works, arquisition of goods and services.  7.2. Celentition of standards and criteria for our of renewable enemants for procurement of works, arquisition of goods and services.  6.0. Companies 2012 2020 347 700  6.0. Certail actions 2014 2012 2020 347 700  6.0. Certail actions 2014 2012 2020 347 700  6.0. Certail actions 2014 2014 2015 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010 317 2010	Energy infrastructures planning	through the accumulation of cold in hotels (ice banks), vehicle battery charging and changing hours of operation of consuming equipments, to	•	2013	2020	1 800 000						
development of forecasting models of intermittent renewable sources and study of dynamic behaviour of the electricity grid.  8. AREAM 2012 2015 250 000  8. EBM 8. REGIONAL SEQUENCES AND STAKEHOLDERS  8. S. Creation of an information helpline and a forum with questions and answers, based on an e-learning platform, for domestic energy design.  8. 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 requirements. Standards and criteria for procurement of works, and single platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of renewable energy or renewable energy or requirements. Standards and single platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of renewable energy or requirements. Standards and single platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of renewable energy or requirements. Standards and single platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of renewable energy or requirements. Standards and single platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency users, in order to clarify doubts and provide advice on energy efficiency users. In order to clarify doubts and provide advice on energy efficiency users. In order to clarify doubts and provide advice on energy efficiency users. In order to clarify doubts and provide advice on energy efficiency to the energy and reduction of COZ emission.		Victoria for hotels and industries, through a hot water network or		2012	2015	150 000						
6.9. Land use planning of wind Tarms, photovoltaic and other renewable energy in installation, sheed on the assessment of the potential of the resources, the dynamic behaviour of the electricity grid and the constraints in a territorial scope.  Overall actions  PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES 7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works, acquisition of goods and services.  Public procurements/standards 7.2. Definition of standards and criteria for use of renewable energy in acquisition of goods and services.  Public procurements/standards 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 are reduction of CO2 emissions  8.2. Financial support for public promoters and non-profit organizations  Public Procurement of the procurement of the efficiency in the specifications of tender documents for procurement of works, acquisition of goods and services.  Overall actions  8.3. 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  8.4. Financial support for public promoters and non-profit organizations  Public products and provide advice on energy efficiency, use of renewable energy and reduction of CO2 emissions  Public products and provide advice on energy efficiency, use of renewable energy and reduction of CO2 emissions  Public products and provide advice on energy efficiency and provide advice on energy efficiency. The public promoters and non-profit organizations  Public products and provide advice on energy efficiency and provide advice on energy efficiency. The public promoters and non-profit organizations  Public provides and the pr	Denoughle energy lead use planning	development of forecasting models of intermittent renewable sources	• AREAM	2012	2015	250 000						
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES  7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  8. Regional Government  9. Municipalities  9. 2012  9. 2020  9. Companies  9. Companies	nenewable energy failuruse planning	energy installations, based on the assessment of the potential of the resources, the dynamic behaviour of the electricity grid and the	Municipalities     AREAM	2014	2015	150 000						
7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the Municipalities  8. Regional Government  8. Regional Government  9. Regional Government  9. Regional Government  9. Companies  9. Co	Overall actions											
7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  7.2. Definition of standards and criteria for use of renewable energy in the Municipalities  8. Regional Government  8. Regional Government  9. Regional Government  9. Regional Government  9. Companies  9. Co	PUBLIC PROCUREMENT OF PRODUCTS AND	O SERVICES										
Renewable energy requirements/standards Renewable energy requirements/standards Acquisition of standards and criteria for use of renewable energy in the specifications of tender documents for procurement of works, acquisition of goods and services.  Overall actions  CITIZENS AND STAKEHOLDERS  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  8.2. Financial support for public promoters and non-profit organizations  Provided the specifications of tender documents for procurement of works, acquisition of goods and services.  Provided the specifications of tender documents for procurement of works, acquisition of goods and services.  Provided the specifications of tender documents of tender documents of works, acquisition of goods and services.  Provided the specifications of tender documents for procurement of works, acquisition of goods and services.  Provided the specifications of tender documents of works, acquisitions of sundicipalities.  Provided the specifications of tender documents of works, acquisitions of sundicipalities.  Provided the specifications of tender documents of works, acquisitions of sundicipalities.  Provided the specifications of tender documents of tender documents of tenders.  Provided the specifications of tender documents of tenders.  Provided the specifications of tender documents of tenders.  Provided the specifications of tenders.  Provided the specifications of tender documents of tenders.  Provided the specifications of tenders.  Provided the specif		7.1. Definition of standards and criteria for energy efficiency in the specifications of tender documents for procurement of works,	Municipalities	2012	2020							
Overall actions  CITIZENS AND STAKEHOLDERS  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  8.2. Financial support for public promoters and non-profit organizations  • IDR  2012  2020  347 700	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,	Regional Government     Municipalities	2012	2020							
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  8.2. Financial support for public promoters and non-profit organizations  • Regional Government • AREAM  • AREAM  • AREAM  • IDB  • IDB  • IDB  • IDB  • IDB  • IDB • IDB • IDB • IDB • IDB • IDB • IDB	Overall actions											
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  8.2. Financial support for public promoters and non-profit organizations  • Regional Government • AREAM  • AREAM  • AREAM  • IDB  • IDB  • IDB  • IDB  • IDB  • IDB • IDB • IDB • IDB • IDB • IDB • IDB	CITIZENS AND STAKEHOLDERS											
Advisory services  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  8.2. Financial support for public promoters and non-profit organizations  • Regional Government • AREAM  • AREAM • AREAM • IDB • I	THE STATE OF THE S											
1	Advisory services	answers, based on an e-learning platform, for domestic energy users, in order to clarify doubts and provide advice on energy efficiency, use of	_	2012	2020	347 700						
			• IDR	2012	2020							

							1	T	7	1	
	8.3. Financial incentive for business promoters to implement voluntary energy efficiency measures, use of renewable energy for own consumption, sustainable mobility and reduction of CO2 emissions.	• IDE-RAM	2012	2020							
Financial support and grants	8.4. Financial incentive for residential promoters to implement voluntary of 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.	Municipalities	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	28 500						
	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	237 500						
Awareness raising and networking	8.8. Development of cooperation projects in the energy domain with other regions, in particular with outermost island regions presenting similar problems.	<ul><li>Regional Government</li><li>AREAM</li></ul>	2012	2020	1 425 000						
	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	71 250						
	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.	<ul><li>Regional Government</li><li>AREAM</li></ul>	2012	2020	19 000						
	8.11. Development of educational material, awareness-raising and information sessions, and other educational activities on sustainable energy, involving students and teachers.	<ul><li>Regional Government</li><li>DRCIE</li><li>AREAM</li></ul>	2012	2020	71 250						
Training and education	8.12. Introduction of eco-driving habits in training of driving school students and in complementary training of fleet drivers.	<ul><li>Regional Government</li><li>Companies</li></ul>	2012	2020	19 000						
	8.13. Training of technicians for installation and maintenance of heating, cooling and ventilation (HVAC) systems, hot water production and other energy systems.	<ul><li>Companies</li><li>Associations</li></ul>	2012	2020	95 000						
Monitoring	8.14. Installation of systems for monitoring and managing energy consumption in the residential sector and in services buildings.	<ul><li>EEM</li><li>Companies</li><li>Citizen</li></ul>	2012	2020	950 000						
	8.15. Increase of supervision/inspection on applicable energy efficiency regulation (SGCIE)	Regional Government	2012	2020	8 550						
Legislation	8.16. Increase of supervision/inspection on applicable energy efficiency regulation (SCE)	<ul><li>Regional Government</li><li>Municipalities</li><li>AREAM</li></ul>	2012	2020	128 250						
	8.17. Preparation of a master plan for street lighting, to define efficiency and control requirements in new projects.	<ul><li>EEM</li><li>Municipalities</li><li>IPM</li><li>AREAM</li></ul>	2012	2012	47 500						
Overall actions									]		
OTHER SECTORS (please specify)											
									1		
									+		
									1		
TOTAL					883 969 967	358 953	497 188	449 266	358 953	497 188	449 2

# 3) WEBSITE

Direct link to the webpage dedicated to ISEAP (if any)	
Direct link to the webpage dedicated to ISLAF (ij dily)	, · · · · · · · · · · · · · · · · · · ·