



Ayuntamiento
de Las Palmas
de Gran Canaria



ALGE

AGENCIA LOCAL
GESTORA DE LA
ENERGÍA

LAS PALMAS DE GRAN CANARIA

LAS PALMAS DE GRAN CANARIA
ENERGY MANAGEMENT LOCAL AGENCY
Canary Islands, Spain.

PRESENTATION

- **Who we are?**
 - Overall goals & competences
 - Structure & budget
 - How do we fund projects?
 - Our Strategy
 - Action plan for 2017
- **Where we are?**
 - Las Palmas de Gran Canaria
- **What are our main interests?**
- **What do we offer as partners?**
- **Contact details**



Who we are:

Las Palmas de Gran Canaria Energy Management Local Agency



Overall Goals

Las Palmas de Gran Canaria Local Agency of Energy Management was established on 2007 as an **Executive Agency of the City Council** created as a tool for energy planning and management at municipal level **in coordination with all areas of the City Council**, including public bodies and companies, with the aims of:

- Fostering energy savings and efficiency
- Supporting the introduction of renewable energy in Las Palmas de Gran Canaria

This purposes are strongly focused on contributing and progressing towards a more sustainable energy model from the local scope.

Statutory competences & functions

As a public body accountable to Las Palmas de Gran Canaria City Council, these are its competences & functions attributed by law:

- Analysis of the energy efficiency at municipal level
- Draw up municipal plans of energy optimization
- Elaboration and implementation of local projects fostering a more sustainable energy model in Las Palmas de Gran Canaria
- Promotion of the use of renewable energy in city council buildings and premises and in the whole municipality as well.
- Implementation of measures of energy efficiency and savings in buildings, premises, lightening, urban mobility, etc.
- Offer an information, awareness-raising and communication service concerning energy to citizens and all relevant stakeholders.
- Advice, coordination and impulse of projects in the field of energy for city council departments, local public bodies and companies.
- Encouragement, promotion and support of projects fostering sustainable actions in the city.

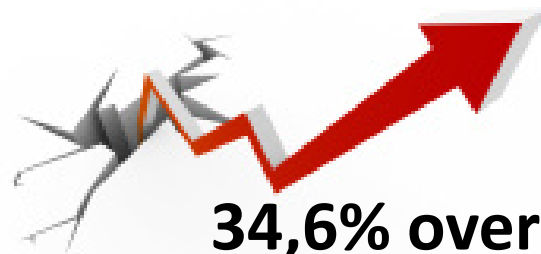
Structure



- 7 City Councillors
- Las Palmas de Gran Canaria University
- Public-private water supply company of Las Palmas de Gran Canaria
- ENDESA (main energy supply company)
- DISA (Canary Islands main gas & fuel supplier)
- Professional Associations (Architects and Industrial Engineers)
- DG for Energy and Industry of the Canary Islands Government.

Budget

2017: 386.900,00€



34,6% over 2016

Budget allocations come from the general budget of Las Palmas City Council for 2017: circa 56.000.000 €

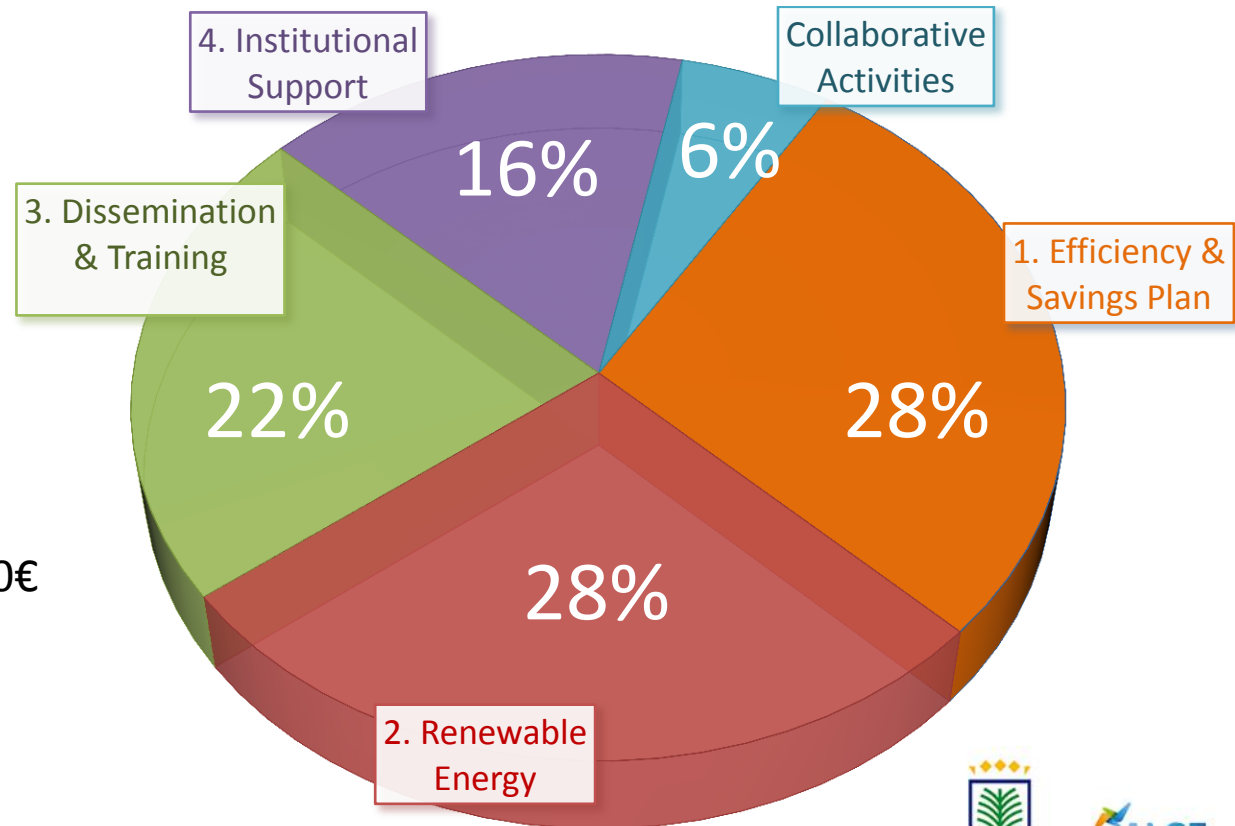
Budget distribution by headings

DISTRIBUTION:

2017 ACTION PLAN:

1. Efficiency & Savings Plan
2. Renewable Energy
3. Dissemination & Training
4. Institutional Support
- Collaborative Activities

TOTAL 4 ACTIONS: 127.900,00€



How do we fund projects?

BUDGET

CURRENT
ACTIVITIES:
Action Plan
2017

**Own budget of
Las Palmas de
Gran Canaria
Local Agency
of Energy Management**

FUNDING

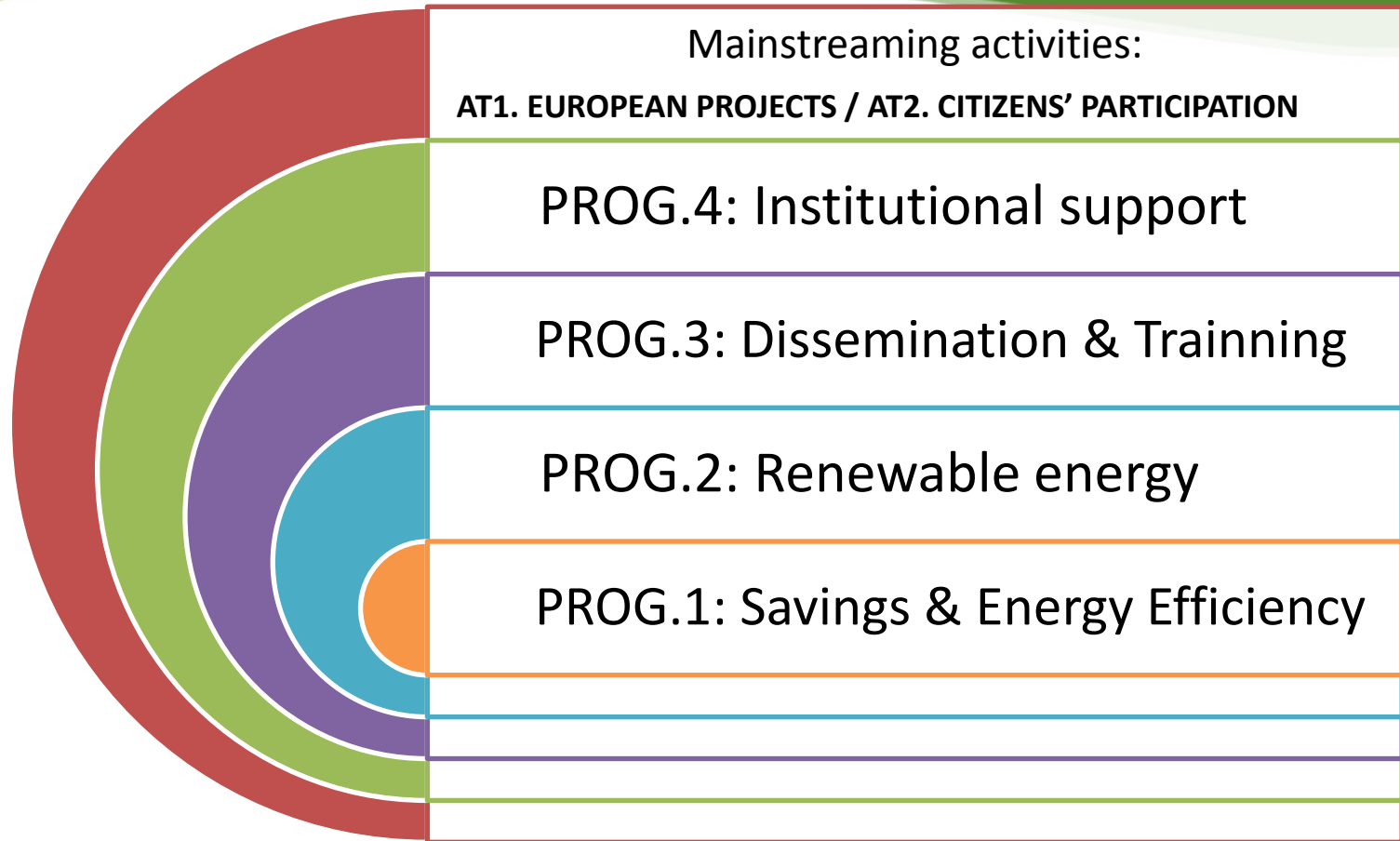
CONTRIBUTIONS
FOR PROJECTS:
e.g. European
Projects

**Own budget &/or
Las Palmas de
Gran Canaria
City Council
Co-financing**

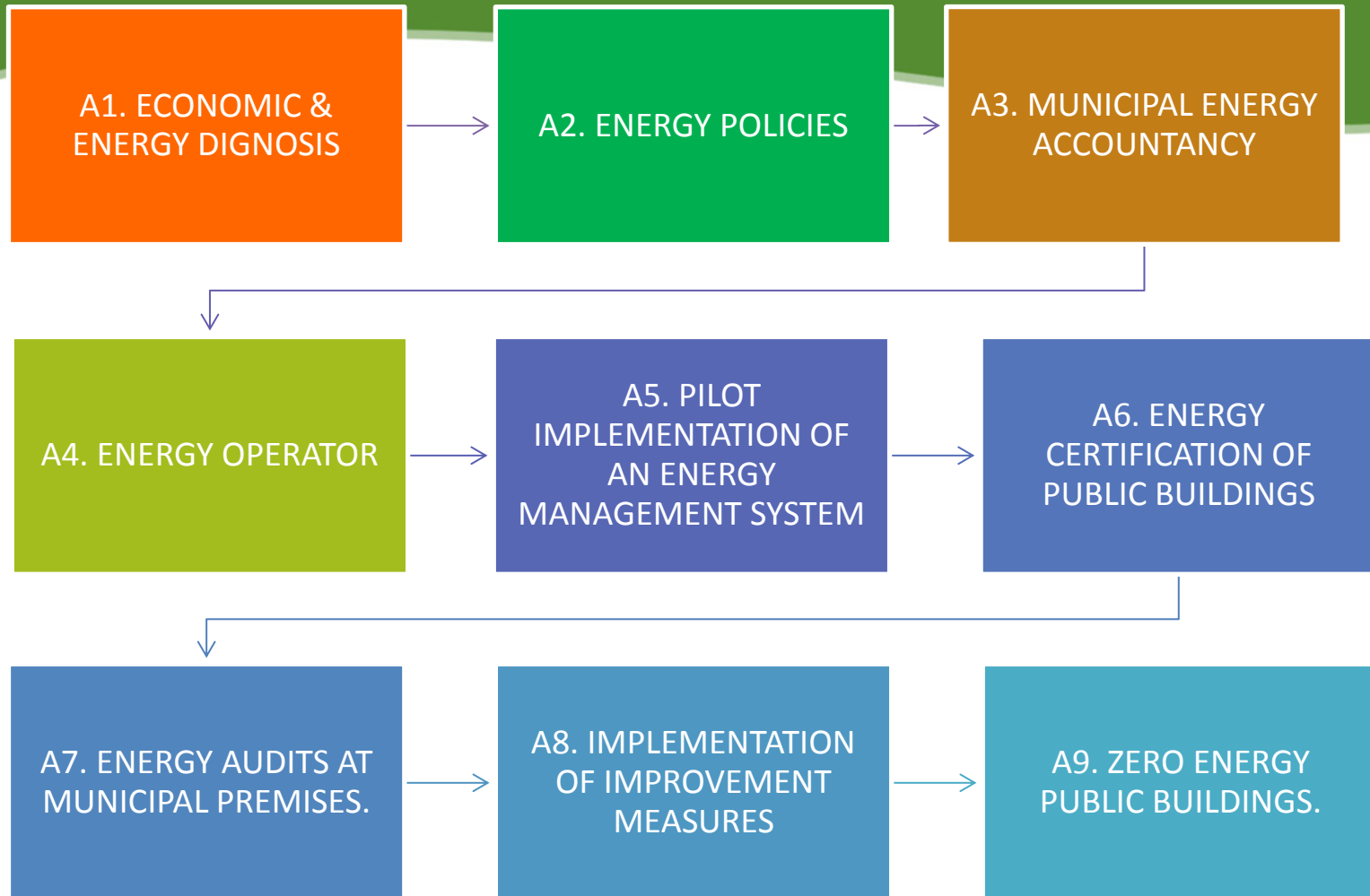
Our Strategy: 4 main strands

- **First:** To drive measures and actions allowing to implement the systematization of a PROCESS OF ENERGY PLANNING
- **Second:** To increase internal collaboration and coordination inside Las Palmas de Gran Canaria City Council, its departments, public companies, ...
- **Third:** To activate the participation of ALGE – LPGC in european projects
- **Fourth:** To promote and support citizen's initiatives

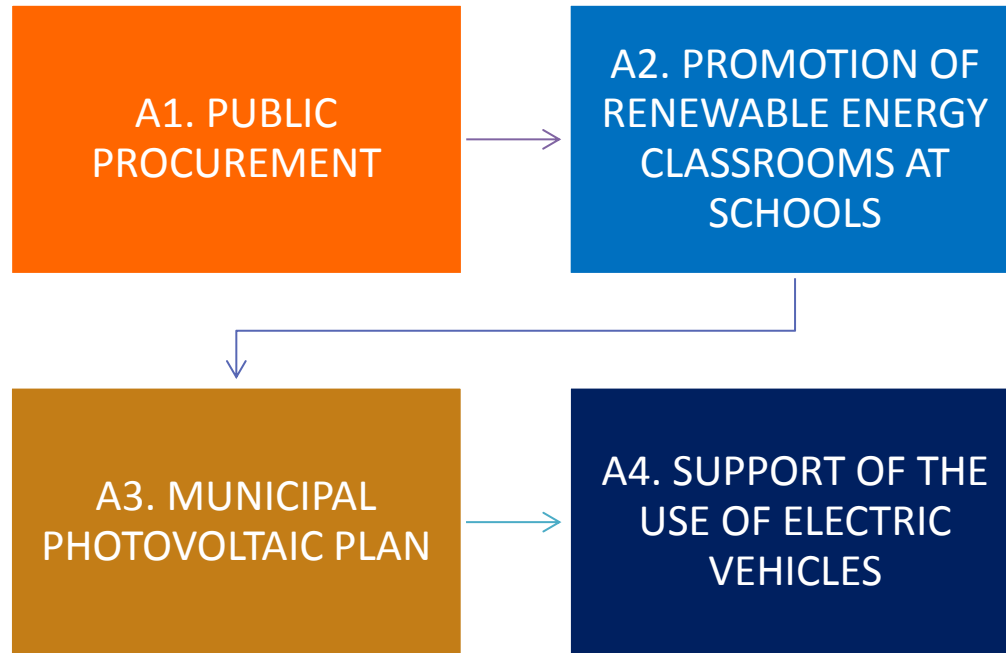
Action Plan for 2017



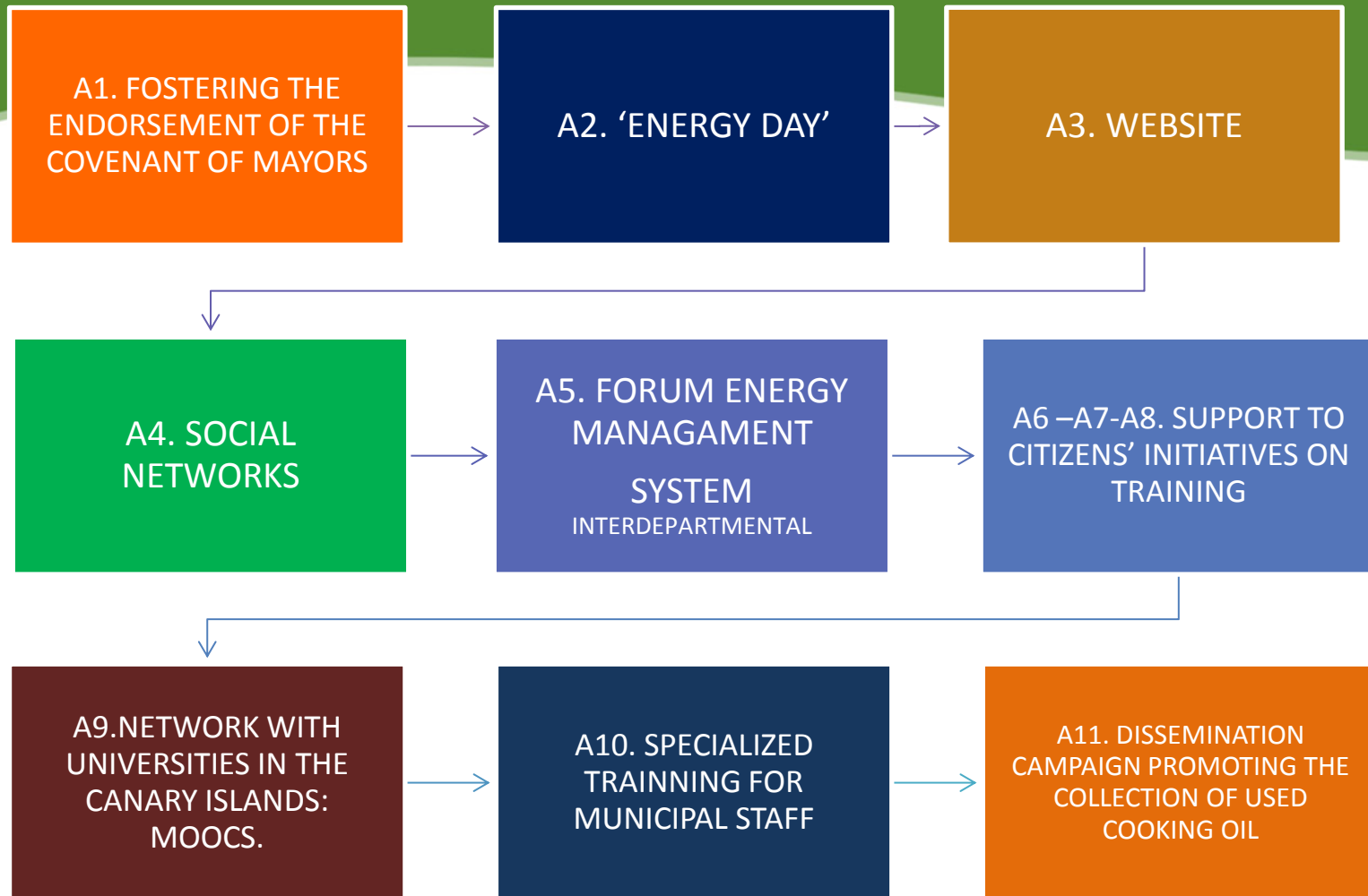
➤ PROGRAMME 1: SAVINGS & ENERGY EFFICIENCY



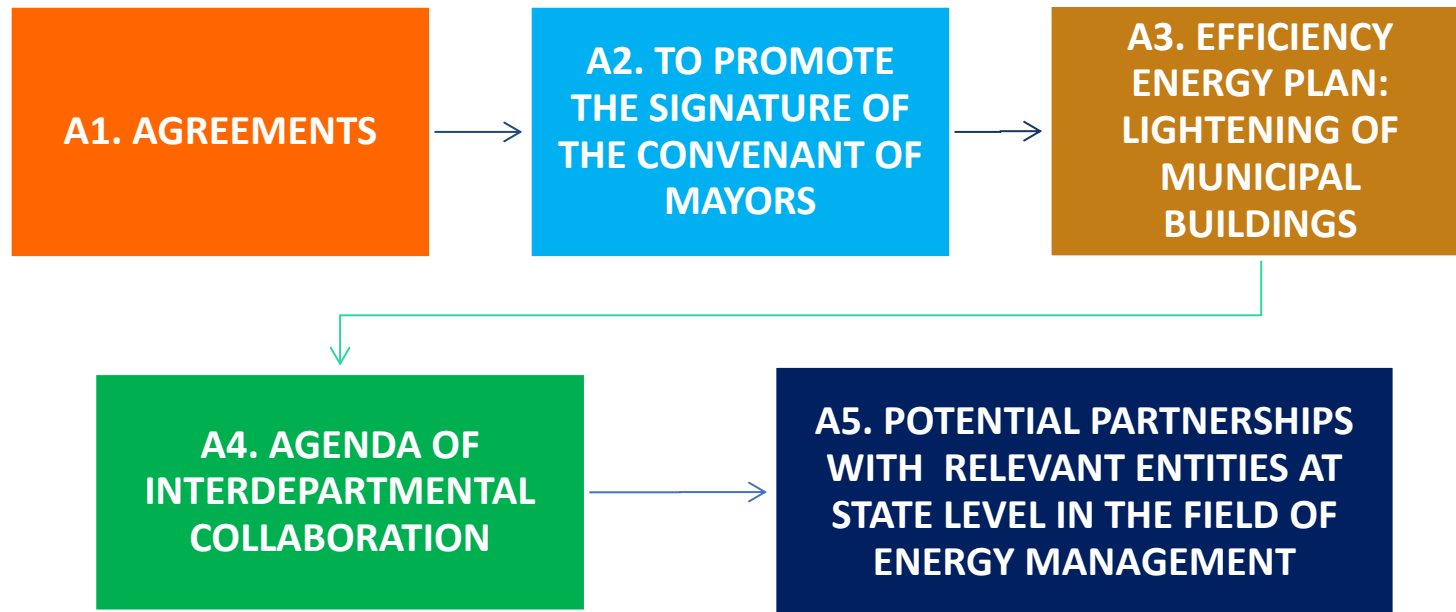
➤ PROGRAMME 2: RENEWABLE ENERGY



➤ PROGRAMME 3: DISSEMINATION & TRAINING



➤ PROGRAMME 4: INSTITUTIONAL SUPPORT



Where are we?



Canary Islands, Spain

European Union Outermost Region



Relevant EU measures concerning areas such as customs and trade policies, fiscal policy, free zones, agriculture and fisheries policies, and conditions for supply of raw materials and essential consumer goods. Also, the rules on State aid and conditions of access to the Structural Funds and to EU horizontal programmes are adapted to the needs of The Canaries.

Projects involving EU Outermost Regions are especially welcome in Brussels!!

Las Palmas de Gran Canaria, Capital city of the Canary Islands.



Some general data about Las Palmas de Gran Canaria

Concept	Description
Political status	Capital city of the Canary Islands (shared with Santa Cruz de Tenerife)
Population:	378.998 (3.769,25 pop/km ²) as January 1 st 2016
Surface:	100,55 Sq km
Number of visitors	362.899 tourists (overnight visitors); 706.130 (excursionists); 682.735 (cruise passengers). Data: 2015
Major infrastructures	Biggest port hub in the Mid-Atlantic Region; A 10,62 million passengers airport (2015) at 20 km from the city center.
Industry	Seat of the major companies of the Canary Islands
Academia	Las Palmas de Gran Canaria University (19700 Alumni/ 1644 teachers & full time researchers; 166 part-time researchers.as October 2016)

Specific data on energy related issues

Energy consumption in the city is clearly influenced by several aspects:

- Be the location of most of the industrial activities of the island, including port activity
- Be a major international tourist spot with different patterns of energy consumption than those of local residents
- Be one best cities in the world in terms of weather

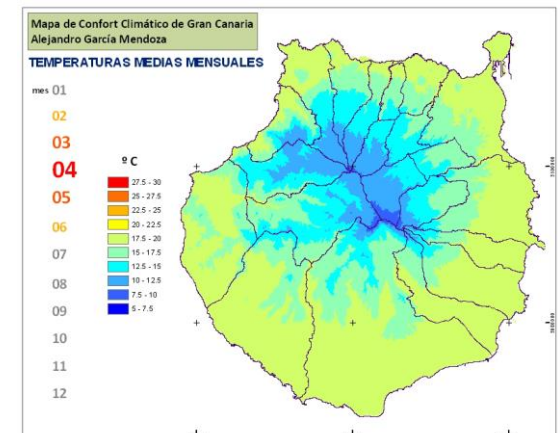
Weather & Energy consumption in the city of Las Palmas de Gran Canaria



Range of mean temperatures varying from 18° C on January up to 25° C on August/September

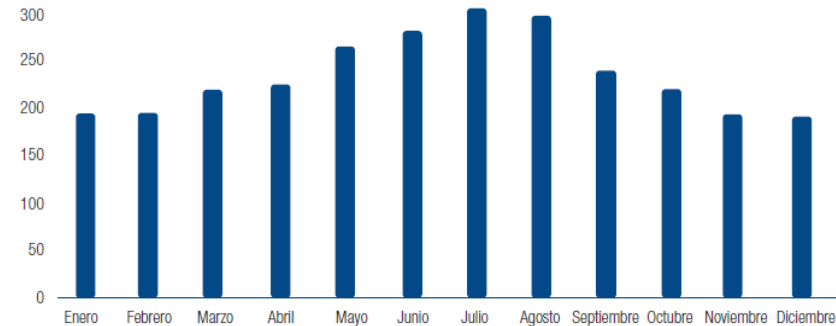
Winter is very mild with average lowest temperatures of 15,8°; an average highest temperatures of 20,6° during the coolest months (January & February)

From June to October, average higher temperatures reach 24° & 26° C



Weather & Energy consumption in the city of Las Palmas de Gran Canaria

**Number of sunshine hours
in Las Palmas de Gran Canaria: 2750.**



Average solar irradiation:

- 3.1 kWh/sqm (Jan); 5.80h/day
- 5.5 kWh/ sqm (Jul); 8.54h/day

Sunset in Berlin, 23 December

15:55 CET – 14:55 WET

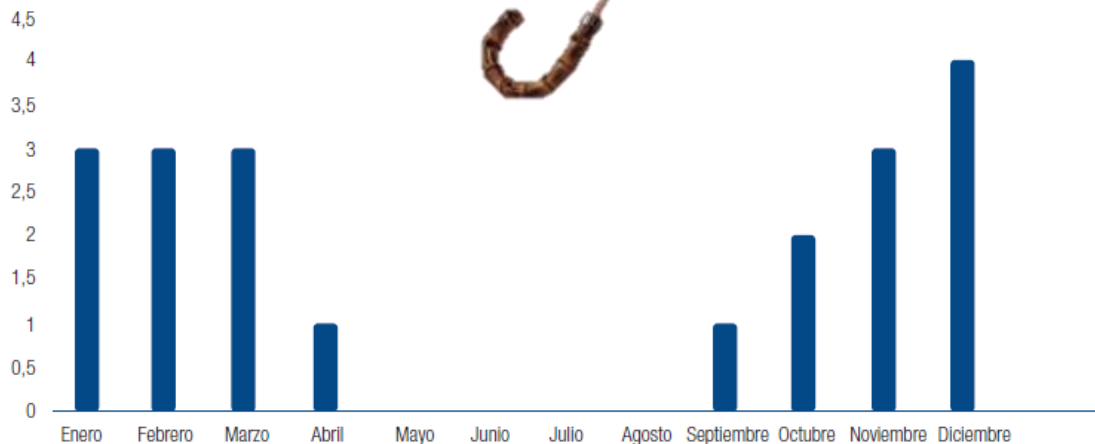
Sunset in Las Palmas de GC

18:12 WET – 19:12 CET

Weather & Energy consumption in the city of Las Palmas de Gran Canaria



Number of rainy days per year in Las Palmas de Gran Canaria: 22

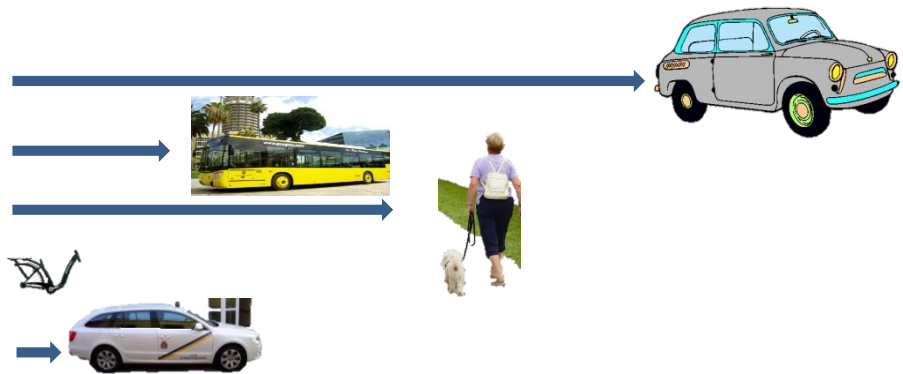


In terms of rain, there are 6 months per year when the chance of a rainy day to happen is 1 or less than 1

No snow history records; extremely small chances of hail in the city.

Mobility diagnosis.

Intramunicipal mobility	
Private vehicles	66,30%
Public Transportation (bus)	13,20%
On foot	15,60%
By Bike	0,50%
Taxis & other	4,40%



In terms of mobility, Las Palmas de Gran Canaria has fields for improvement. Almost 7 of 10 internal travels in the city are made by private vehicles (54% of travels within the city boundaries have just the driver inside the private vehicle)

Mobility Diagnosis

Energy use & CO₂ emissions

	2010			2015			2020 (forecast)		
	TOTAL	Private Vehicles	Public Transportation	TOTAL	Private Vehicles	Public Transportation	TOTAL	Private Vehicles	Public Transportation
ENERGY USE (Toe)	64.128	54.757	9.371	79.771	69.860	9.911	85.533	75.533	10.062
CO ₂ EMISSIONS (T)	141.865	139.621	2.244	180.522	178.129	2.373	195.005	192.596	2.409
Projected increase during the period 2010 -> 2020							33,38%		
							37,46%		

In terms of energy use and CO₂ emissions, there is a substantial increase in private vehicle originated emissions and trends indicate that this is going to continue although moderate improvements in public transportation.

Mobility policies in Las Palmas de Gran Canaria

Electromobility: Encouraging the use of electric vehicles



- Public service electric vehicles
- Parking lots producing Zero emissions energy
- Green procurement
- LPA Blue Intelligence-Smart City

Mobility policies in Las Palmas de Gran Canaria

Zero emissions objective:

Encouraging alternative means of transport.



Metro bus service



New restricted areas for cars

Promoting bike use & pedestrian areas

Urban metabolism

AREA	CONCEPT	DATA	MEASURING UNIT	YEAR
ENERGY	Final energy consumption in Las Palmas de Gran Canaria	4.242,80	Kwh/pop	2015
	Share of Renewable Energy in the electric demand	8,5	%	2014
	Proportion of certified buildings con energy ratings A/B/C	1,2	% of certified buildings	2016 (2nd Quarter)
ATMOSPHERE	Greenhouse emissions per capita	5,96	t CO ₂ -eq /pop	2013

Although the average final consumption of electric energy is well below from EU standards, a huge field for improvement is needed both in renewable energy sources (currently just 8,5% of the total demand) and upscaling the quality of energy certification in buildings of the city.

What are our main interests?

Areas for improvement and expertise exchange

- In terms of **housing and energy efficiency in buildings**, those needs may vary from the standards of the European continent, although **Las Palmas de Gran Canaria can benefit from other experiences on efficiency audits & measurement, renewable energy sources, lightning, new building materials,....**
- In terms of **mobility**, there are fields for **good practices to be learned and applied in the city, especially, electromobility**
- In terms of **regulation**, although Las Palmas de Gran Canaria is restricted by state and regional legislation, there are fields for acquiring **expertise and know-how from other european cities.**

Potential partnerships for different calls for proposals



- **INTERREG ATLANTIC AREA**

(Renewable energies and energy efficiency// green growth, eco-innovation and environmental efficiency)

- **HORIZON 2020**

(Secure clean & efficient energy // Smart green & integrated transport// Climate action, environment, resource efficiency and raw materials // Science with and for society)

Potential partnerships for different calls for proposals



- **INTERREG EUROPE**
(Low Carbon Economy/ Resource efficiency & circular economy)
- **LIFE +**
(Energy// cleaner technologies // Green Procurement//
Integrated management// Life-cycle assesment-management)
- **ERASMUS +**
(Sector skill & knowledge alliances)

Potential partnerships for different calls for proposals



- Pilot projects & preparatory actions in the field of energy.
- Other support actions in the field of:
 - CEF/Intelligent Transport Systems (mobility).

What do we offer as project partners?

A credit-worthy organization

- For 2017, Las Palmas de Gran Canaria Local Agency of Energy Management has **substantial new resources** (a 34,6% increase) to develop policies concerning the transformation of the city into a new more sustainable one.
- A **relevant group of stakeholders** (Academia, research centres, citizen's organizations, companies,...) already working with the Agency
- An **intensive public presence** through raise-awareness campaigns the whole year round
- **The strong commitment** of Las Palmas de Gran Canaria City Council to be involved in initiatives contributing to improve the city

Advantages as partners

- Substantial reduction of costs due to:
 - ✓ A huge network of direct communications with cities all around Europe facilitating contacts with potential partners, including lower costs of accommodation and subsistence costs than those of the continent.
- Possibility if required to contact easily other international potential partners in other countries of the area.

Relevant awarded projects

- **Project “Local Energy Agencies”** co-financed by the EU through the Intelligent Energy Executive Agency, acting Las Palmas City Council as project partner (2007), within the framework of Intelligent Energy Europe programme.
- **Las Palmas de Gran Canaria Integrated Sustainable Urban Strategy –EDUSI (14.985.494,05€) – 85% ERDF (2016)**
- **LPA Blue Intelligence, (7.974.360,82 €) -70% ERDF (2016)**



CONTACT DETAILS

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