



Agencia Provincial de la  
Energía de Granada.



**OptiTrans**  
Interreg Europe



European Union  
European Regional  
Development Fund

# GRANADA. Carsharing

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# Granada Energy Agency



Agencia Provincial de la  
Energía de Granada.

The "Diputación de Granada", is the Local Government of the Province of Granada and **represents 168 municipalities**. This is a Local Public Administration with its own competencies and competencies delegated by the Autonomous Region. Its own competencies are:

- Coordinating municipal services
- Legal, economic and technical assistance to town councils, especially to those who have less economic and management capacities.
- Rendering public services with a supra-municipal or local nature
- Encouraging and administering particular interests of the province

Some of the main characteristics of the Province are: the important role of the agrarian sector, weakness of the industry sector and the high importance of the service sector; a high unemployment rate; the progressive ageing of population in many areas, the great territorial imbalances. It includes an important geographical diversity: from the highest mountain of the Iberian Peninsula with an important sky resort to a subtropical coast. **Many of our municipalities have less of 5.000 inhabitants**. So the biggest part of our territory has a rural character. The Province of Granada is in the lowest positions of Spain and Andalusia rankings. The Province of Granada is part of the Andalusia Region, OBJECTIVE "CONVERGENCE" according to the EU criteria.

## 6) **Sustainable Energy Development based on the action of the Energy Agency of Granada.**

Diputación of Granada is a Supporting Structure of the **Covenant of Mayors since 2009**.

# Granada Energy Agency



Agencia Provincial de la  
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The Energy Agency of Granada **was created in 2001 under the SAVE European initiative** by the Provincial Council of Granada. Once finished the project, the Agency has been earning more and more weight on the provincial administration policies, and **now is the main 'instrument' that the provincial council has to undertake all his sustainable energy policies** on the region which aim to achieve different objectives on 3 main subjects:

- Energy Save 20% to promote rational and efficient use of energy on different energy saving projects (as it can be the current one we are undertaking on public efficient lighting).
- Renewable Energies 20% to promote the use of renewable energies on the province.
- Awareness raising and behaviour changing on the province for a better use of energy on a local reality.

The Energy Agency has worked on different projects to achieve a better energy use on the region, as **Energy Audits in 162 municipalities until now** (but more are being carried now), educational events, technical assessment, mobility studies, renewable energies facilities, etc.

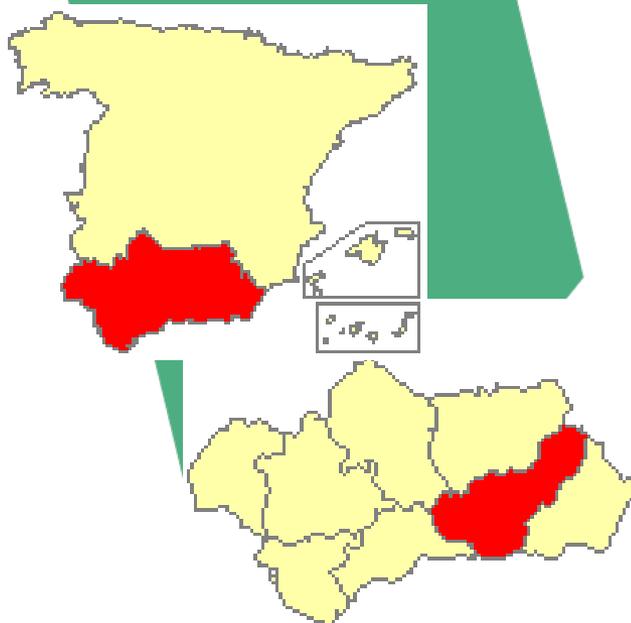
The Provincial Council of Granada entrusted last year the management of the CoM to the Energy Agency of Granada.

# Granada Energy Agency



Agencia Provincial de la  
Energía de Granada.

The Granada Provincial Energy Agency was created under the SAVE II European programme on 2001 with 2 other partners:



Latitude:  $37^{\circ} 10'$  Longitude:  $-3^{\circ} 36'$

# Granada Energy Agency



Agencia Provincial de la  
Energía de Granada.

## MAIN ACTIVITIES:

**Line 1: Municipalities Assistance, local and regional energy planning and policy.**

**Line 2: Promotion of Renewable Energies resources.**

**Line 3: Employment promotion on the R.E. field.**

**Line 4: Communication, Education, Energy behaviour.**

**Line 5: Management of the Agency.**

**Line 6: Cooperation.**

**Line 7: Awareness Campaigns.**





# Carsharing in Europe

**Wow! 2.700.000 worldwide users of Car2Go (1,6 M in Europe)**

- 26 Cities around the world, 14 cities in Europe, 11 cities in North America, and 1 in China**
- 8 countries around the world: Austria, Germany, Italy, Holland, Spain, North America, Canada, China**
- 13.900 vehicles (approximately 1.400 Electrical vehicles)**

# Carsharing in Europe

Ubicación	Lanzamiento	Vehículos	Área car2go en km <sup>2</sup>
Ámsterdam*	11 / 2011	350 (eléctricos)	59
Austin	05 / 2010	328	77
Berlín	04 / 2012	1.100	160
Calgary	07 / 2012	600	80
Chongqing	04 / 2016	600	86
Columbus	10 / 2013	200	37
Denver	06 / 2013	330	75
Florenia	05 / 2014	250	59
Frankfurt am Main	09 / 2014	260	61
Hamburgo	04 / 2011	800	102
Madrid*	11 / 2015	500 (eléctricos)	53
Milán	08 / 2013	800	114
Montreal	11 / 2013	400	95
Múnich	06 / 2013	500	89
Nueva York	10 / 2014	550	116
Portland	03 / 2012	460	110
Renania (Düsseldorf & Colonia)	02 / 2012	650	120
Roma	03 / 2014	600	89
Seattle	12 / 2012	740	211
Stuttgart*	11 / 2012	550 (eléctricos)	153
Toronto	06 / 2012	428	102
Turín	04 / 2015	450	53
Vancouver	06 / 2011	1000	117
Washington D.C.	03 / 2012	800	219
Viena	12 / 2011	675	101

# Carsharing in Europe

<https://carsharing.de/>



# Carsharing in Europe

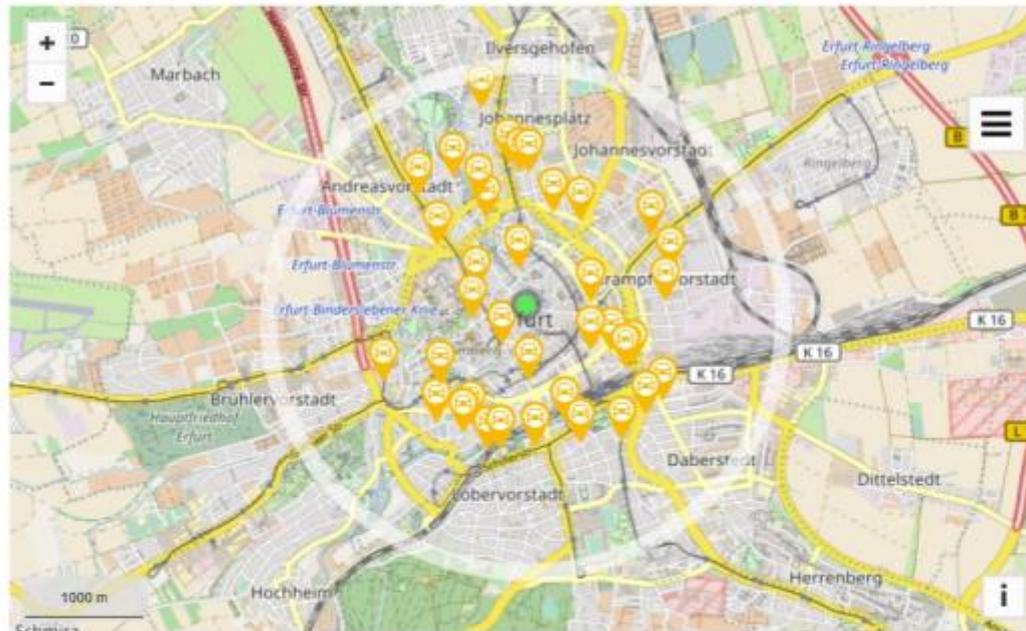
ALLES ÜBER CARSHARING THEMEN PRESSE VERBAND Q

## CarSharing in Ihrer Nähe

Mein Standort

Erfurt, Germany

Suchen



Suchergebnisse als Liste anzeigen

## CARSHARING ERKLÄRT

Was ist CarSharing?

Häufig gestellte Fragen / FAQ

## TERMINE

CarSharing-Forum während der IAA

Donnerstag, 21. September 2017 -  
10:30 bis 13:00

ShareTech 2017 - Branchentreff Shared  
Mobility

Donnerstag, 28. September 2017 -  
8:30 bis 18:00

UITP-Workshop in Paris: Mobility as a  
Service - how to make an integrated mobility  
solution successful

Mittwoch, 18. Oktober 2017 -  
9:30 bis 17:15

## ZAHLEN UND DATEN

Branchen-Kennzahlen

CarSharing-Städteranking

**CARSHARING IST BILLIGER ALS  
EIN EIGENES AUTO.**

# Carsharing in Spain. CAR2GO



# Carsharing in Spain. What?

**The concept is simple:**

- **Non station based electric car sharing scheme;**
- **No need for a subscription or vehicle reservation;**
- **Users can access vehicles where they want and then drive off;**
- **Parking is possible anywhere (depends on the city);**
- **Cars have access to most of the areas were traditional cars don't have access anymore (depends on the city);**
- **There's no need to take the car back to a fixed depot;**
- **To drive electric, one must register with the service through the website, and then all is made through the user smart phone.**

**Users pay only for the actual number of minutes of car usage.**

# Carsharing in Spain. EMOV

Descarga la aplicación de emov y disfruta de nuestro servicio de coche compartido en Madrid desde tu Smartphone. Resérvalo hasta 20 minutos antes sin coste.



Muévete por la ciudad  
de forma ágil y sencilla

# Carsharing in Spain. Advantages

**This system complements existing transport systems by providing a service for short distance trips.**

**Electric mobility is seen as a realistic way of tackling the city's air quality and climate problems.**

**Shifting from vehicle ownership, with a high cost, to temporary vehicle use offering greater flexibility, more adequate and lower demand in parking space.**

**In Madrid the system has been implemented lately:**

**November 2015: car2go (500 EVehicles)**

**December 2016: Emov (660 EVehicles)**

**\*Muving and Ecooltra during 2017**

# Carsharing in Spain. Disadvantages

**Need of hubs of rapid electrical chargers, large investment → Rapid chargers network within the city (as it has been done in other countries)**

**Specific parking lots for carsharing platforms developed in attraction points (train station, airport, bus station, etc.), rapid charge would be done at these places, and multimodality would be better promoted.**

**Regulation and agreements on occupancy of public space to earn a private profit, and thus some other competing companies are arguing about the model (Taxi drivers, Uber, Cabify, etc.)**

# Carsharing in Spain.Replication

**Like many other European cities Madrid is supporting electric mobility. But the way in which the City supports it is by means of no investment:**

- A electro-mobility supporting policy of Madrid allows EV to park without paying anywhere in Madrid (green, blue, or white areas)**
- Another important policy is free access to EV to the city center (while conventional cars have restrictions).**
- As well, another policy that is interesting for carsharing companies, is that there is no limitation of the fleet a carsharing company can place in the city.**

**The main investment on the side of the company are the main charging hubs that's has implemented in the City, in order to charge all its vehicles with rapid chargers.**

# Carsharing in Spain.Replication

- Over 500.000 inhabitants in the region were the carsharing company is going to implement its scheme.
- As well, this region must be compact (due to the autonomy of electric cars), thus a city or a compact metropolitan area.
- Must have attraction poles (such as working places, etc.), so inhabitants have the need to move every day within this area.

\*If the municipality/ies implement some of the solutions proposed in the previous section, these schemes could be replicated in many more European regions. For example in Germany, in some cities they are implementing already 200 kW chargers, and they have a spread network of carsharing companies in different cities. More information could be found here: <https://carsharing.de/>.

As well as these kinds of companies learn more and more, and EV reduces their price, they could study the replication in other smaller areas.

# Motosharing in Spain. ECOOLTRA



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[Cómo funciona](#)
[Precio](#)
[Ayuda](#)
[Entra / Regístrate](#)


0,24  
€/min

**SIN CUOTAS DE ALTA  
NI MANTENIMIENTO  
100% ELÉCTRICA**



## LA LIBERTAD CUESTA MUY POCO

- Muévete libremente por tu ciudad
- De puerta a puerta
- Sin contaminar
- 2 cascos y seguro incluido

Solo pagas por los minutos que  
usas el servicio.



# Motosharing in Spain. MUVING

(0034) 956 556 393 · sharing@moving.com



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Tarifa

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## Hazte Muving

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### EN 5 MINUTOS ERES MUVING.

Formar parte de la familia MUVING es muy sencillo. Tan sólo tienes que cumplimentar dos pasos: descárgate nuestra aplicación móvil en tu tienda habitual y cumplimenta los datos de registro requeridos. O si lo prefieres, regístrate a través de la web y luego descárgate la aplicación. Ya solo tendrás que ocuparte de localizar el vehículo más cercano a ti y pagar sólo desde que lo arranques hasta que llegues a tu destino.



Accede



Completa El Formulario



Ya Eres Muving

# SPAIN 100%Elec. Car-Motosharing

Tipo de Servicio	Compañía	Alta	Coste alta	Coste minuto	En Granada
<b>CarSharing 100% Eléctrico</b>	<b>CAR2GO</b>	<b>Presencial (Licencia)</b>	<b>9,00 €</b>	<b>0,21 €</b>	<b>-</b>
<b>CarSharing 100% Eléctrico</b>	<b>EMOV</b>	<b>Telemático (Licencia)</b>	<b>5,00 €</b>	<b>0,24 €</b>	<b>-</b>
<b>MotoSharing 100% Eléctrico</b>	<b>MUVING</b>	<b>Telemático (Licencia)</b>	<b>- €</b>	<b>0,18 €</b>	<b>01-sep-17</b>
<b>MotoSharing 100% Eléctrico</b>	<b>ECOOLTRA</b>	<b>Telemático (Licencia)</b>	<b>- €</b>	<b>0,24 €</b>	<b>-</b>

**Renault and Ferrovial will launch a third carsharing 100% electric service with 500 Renault Zoe cars in October 2017**

# Motosharing in Granada



# Bikesharing in Granada



## HOW TO USE?

### START USING oBIKE IN 4 SIMPLE STEPS!



#### DOWNLOAD

Download the  
oBike app



#### LOCATE

Use the oBike app  
to locate your nearest oBike



#### UNLOCK

Scan the QR Code  
to unlock your oBike



#### FINISH

Manually lock the  
oBike when you're done

Available On



# Granada Energy Agency

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# Thank you!

Questions welcome

