Procurement of innovative public transport vehicles powered by alternative means of combustion, in this case Compressed Natural Gas (CNG)

City Council of Jerez
PRESENTED AS GOOD PRACTICE, the procurement of innovative public transport vehicles powered by alternative means of combustion, in this case Compressed Natural Gas (CNG), in order to minimize the emission of contaminating gases in vehicles travelling around the city for over 15 hours each day. The purchase of these new sustainable vehicles will result in the renovation of 25% of the total current municipal fleet.

The total cost of the procurement of the 12-metre buses amounts to 3,312,000€, 80% co-financed by the European Union and charged to FEDER, the amount of the subsidy being 2,360,080 €.

The impact of this action will be to reduce annual total emissions of CO2 by 1,490 tons.

This action complies with all the criteria considered as good practice in projects co-financed by FEDER

1. The action has been correctly announced to both potential beneficiaries and the general public

DIN A3 sticker-type notices: 5 notices have been placed in each vehicle in locations which are visible from both inside and outside the vehicle.

Through Public Events:
By news on the Internet:
http://www.jerez.es/webs_municipales/edusi0
http://www.jerez.es/webs_municipales/edusi0/actuaciones/lineas_de_actuacion/l3_adquisicion_de_vehiculos_de_transporte_publico_innovadores_con_combustibles_alternativos/noticias/

On ONDAJEREZ municipal radio-television station:

Promotional video: https://www.youtube.com/watch?v=Fvifsghxor&feature=youtu.be

News in the local press:
A specific service has been engaged for the design and execution of an awareness campaign to promote the Operation with several aims in mind: communicate the benefits of public transport in general, explain the quantitative value of reduced CO2 emissions and communicate the fact that this Operation has been co-financed by the EU, through FEDER. Tins of “pure Jerez air” have been distributed which in turn are flowerpots containing seeds of flowers that contribute to oxygenate the city.

The FEDER co-financing legend is printed on each tin/plant pot, along with the EU flag, a specific web address and an App or Mobile Web: [http://airepurodejerez.es/](http://airepurodejerez.es/)

Flowerpot sticker and 6 x 2m Roll Up:

2. The Action incorporates innovative elements:
   The procured vehicles have a distinctively innovative element, given that for the first time in our city the fuel used for municipal passenger transport is Vehicle Natural Gas (VNG), which may become one of the key agents in the fight to reduce the main environmental dangers deriving from transport and improve the quality of air in cities; compared to a petrol or diesel powered car, oxygen and nitrogen emissions are reduced by 85% and by almost 100% in the case of particles in suspension, the main cause of respiratory problems deriving from urban contamination for children and the elderly in urban environments. CO2 emissions are also reduced by 24%, meaning that this energy source contributes in the fight against climate change.

3. Adequacy of the results obtained to the established objectives.
   The established aims were to reduce emissions and contribute to improving air quality in the city, from a sustainable integral focus of urban mobility to achieve a reduction in emissions of greenhouse effect gases.

Reducing, as already stated, the number of the most highly contaminating vehicles by 75% is a first step towards an improvement in the environmental quality of the Town Council, thus achieving a greener city which is more sustainable and at the same time contributing to improve the quality of life of its citizens.
4. Contribution to the solution of a problem or weakness detected in the territorial scope of execution.

Although the municipal ratio of green zones is above that of the province, it is still far from the minimum reference value established by the indicators of municipal sustainability. On the other hand, the average age of the fleet of municipal urban transport vehicles is very high (+ 12 years) and all are diesel, none are hybrid or electric. This leads to high levels of usage of private transport (cars) for both urban and interurban travel.

This action contributes not only to reducing the city’s carbon footprint, but also provides the citizen with a comfortable, non-contaminating public transport system.

5. High degree of coverage regarding the target population.

The large geographical extension of Jerez highlights the importance of a good bus service, the main means of both urban and inter-urban transport. The current distribution of stops throughout the city represents a coverage ratio of 85% of the population; residents will thus see themselves covered by the action presented here.

Moreover, as the reduction of CO2 emissions into the atmosphere will result in an improvement in the quality of the air being breathed by the population as a whole, all citizens will benefit from the effects of the Operation once carried out.

6. Consideration of the horizontal criteria of equal opportunity and non-discrimination, together with social responsibility and environmental sustainability.

While men tend to favour the car for daily transport, women use public transport more often. This is demonstrated by data regarding the user profiles of different means of transport. This action will therefore have a positive effect on the conciliation of work and family, both for men and women.

Attending to the criteria of social responsibility we have also taken into account the needs of accessibility of vehicles belonging to people with reduced mobility, including specific measures required by law.

Finally, in relation to the parameters of municipal environmental sustainability, the incorporation of these new vehicles, powered by alternative fuels, have meant a substantial reduction of CO2 levels in the city’s air.

7. Synergies with other policies or instruments of public intervention.

In line with the aim of reducing the impact of the city’s carbon footprint from a sustainable integral focus on mobility, Jerez Town Council has made the commitment that the next buses to be procured will also be powered by Compressed Natural Gas.

Synergies are also produced with other measures to improve urban mobility, such as the pedestrianization of several streets in the city centre, contemplated in the Municipal Mobility Plan, and the substitution of public lighting using LED. All of this, along with gas powered buses, contributes to the reduction of CO2 levels the city.