

## Editorial

The 4th edition of the pro-EE newsletter reports on news and events on green public procurement (GPP) and presents examples of energy efficient purchasing in European municipalities: among others the set up of framework conditions for GPP in Ferrara (Italy), experience and data from the procurement of energy efficient street lighting in Amaroussion (Greece), and a pilot project with BMW's MINI-E in Munich (Germany).

## Content

### News from pro-EE Cities

- Ferrara (Italy): Framework Conditions GPP – Certified Renewable Energy & EMAS
- Amaroussion (Greece): Exoikonomo Programme – Street Lighting & GPP
- Munich (Germany): Pilot Project BMW MINI-E – Electric Mobility in Model Regions

### News & Events

- Revised pro-EE Guidelines
- EU-Findings on GPP
- pro-EE bundles requests for E-Car
- pro-EE at Venice International University & Ferrara's Award
- pro-EE collaboration with Intelligent Energy Projects
- Events

### pro▶EE – Public Procurement boosts Energy Efficiency

pro-EE aims at improving energy efficiency through sustainable public procurement. The project focuses on innovative products with higher economical and technical energy saving potential and develops model procedures and networking approaches which can be implemented by any public authority in Europe.

pro-EE is designed to:

- bring together suppliers and consumers to agree on specific products and develop strategies for their distribution, thereby sharing the risks and benefits of developing new products and fostering the innovation process.
- set up a partnership between market actors in six European countries to devise innovative procedures for public authorities and thus influence suppliers of energy efficient products and services.
- implement these procedures in pilot cities.

One central outcome of pro-EE are experiential recommendations for the integration of sustainable procurement approaches and strategies into the policies of local and regional authorities.



## The Municipality of Ferrara Promotes Best Practices

As Mentor City in the Intelligent Energy Europe project **pro-EE – Public Procurement boosts Energy Efficiency**, Ferrara’s main target is to procure information technology products following high efficiency standards. To procure products such as laptops, PCs, or printers the Local Agenda21 cooperates with CONSIP, a public stock company created in 1997 by the Italian Ministry of Economy and Finance (MEF).

As the adequate place for purchases the Electronic Marketplace for Public Administration (MEPA Mercato Elettronico per la Pubblica Amministrazione) has been chosen - a tool available only for purchases below the European threshold and based on a digital market where selected purchasers offer their products and services to public administration. Purchases can be made both through direct orders, selecting products listed in the platform, or calls for tenders, carried out towards one or more purchasers by a specific public administration.

In this framework, some products are marked with a “green logo” (green leaf) guaranteeing the achievement of green criteria such as energy efficiency - depending on the specific call for tenders and respecting free competition.

In order to select the best efficiency criteria, the Municipality of Ferrara is going to follow the minimum criteria set up on national level by CONSIP for IT products, with special regard to laptops. According to the new Italian National Plan on GPP, these criteria reflect the minimum standard required and, if followed in the contract, turn a procurement “green”.

The criteria mentioned before are:

- energy consumption, requiring the latest version of Energy Star (e.g. Energy Star 5.5), Nordic Swan or equivalent;
- noise reduction referring to ISO 7779 and ISO 9296 requirements or equivalent;
- long-lasting batteries according to European Directive 2006/66/EC;
- LCD monitors containing not more than 3 mg of mercury with preference to Ecolabel, Nordic Swan or equivalent.

Additionally, the Municipality of Ferrara in cooperation with CONSIP is going to give special attention to the inclusion of the best cost-benefit ratio, possibly covering the maintenance service as well.

To test energy-efficient purchasing power the Municipality of Ferrara decided to start at local level. In the future the municipality aims at influencing a wider range of Italian municipalities and provinces to join future calls for tenders. While being aware of the economic budget limitations currently affecting most of the Italian public administrations, Ferrara with the support of CONSIP is going to promote and disseminate its choice of energy efficiency in the framework of pro-EE at national level.





**Public Procurement boosts Energy Efficiency**

**Other Best Practices in a Snapshot**

**Certified Renewable Energy for the Municipality of Ferrara**

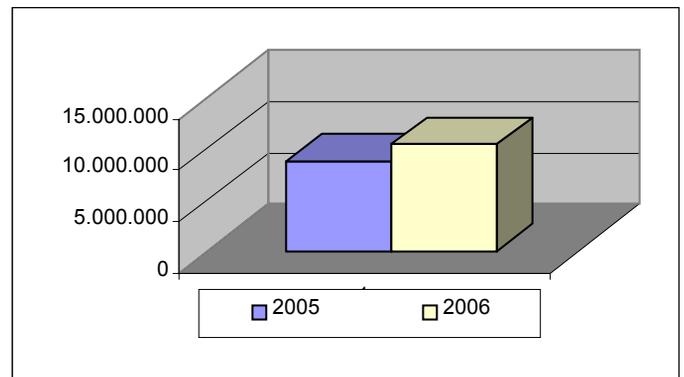
In 2008 the Municipality of Ferrara started to use “clean energy” while taking part in an experimental, administration wide action called “100% Renewable Energy for the City of Ferrara”. According to the action, energy distributed in municipal buildings (290) is certified by the **Renewable Energy Certificate System (RECS)**, an international certification system involving twenty-five European countries, or equivalent.

The action’s implementation has already led to improved environmental performances through large reductions in CO<sub>2</sub> emissions: In 2008 the municipality with an energy consumption of 10.500.000 KWh was able to cut CO<sub>2</sub> emissions by approximately 7.350 tons.

Due to the experimental action’s success and due to Ferrara’s Energy Manager requiring 100% certified “clean energy” as minimum criteria in contract specifications, the new energy supplier has already committed to supplying certified energy from renewable resources only.

The Municipality of Ferrara is confident that its environmental choice on clean energy is going to promote environmental behaviour among citizens and the territory.

Information about the performances of energy consumption is now monitored also by the Environmental Management System EMAS with a specific quality data/indicator system on direct aspects, divided into environmental matrix. This allows to create a trend per year on the administration’s energy consumption, calculated in KWh as shown below:



**Ferrara’s energy consumption of renewable sources in KWh**

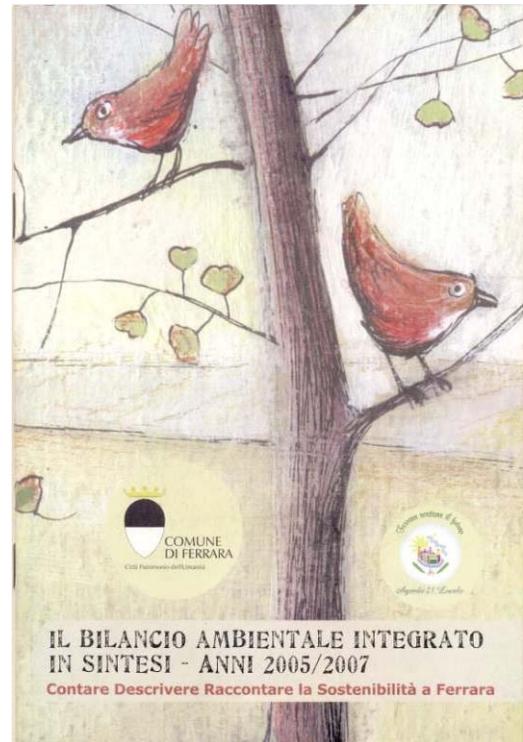


**Public Procurement boosts Energy Efficiency**

The same action was monitored also by the EMAS Legal Register, a systemic and continuously updated document, arranged in environmental aspects. The register aims at monitoring conformity to laws and agreements in the field of environment and reporting the state of actions at the Municipality of Ferrara, including green criteria in contracts.

Simultaneously the action on “clean energy” was disseminated to citizens through a tool called “Environmental Budget Balance in Brief”. The balance in brief selects the official balance’s most significant aspects to be communicated easily and clearly, including energy sources.

This user friendly tool describes the municipal state of actions underlining the municipality’s priority commitments in the middle-long terms and the most important actions carried out to achieve the according results during the period 2005-2007.



*Maurizio Abbati, Local Agenda21 and environmental legal expert of EMAS technical bureau of the Municipality of Ferrara*



Public Procurement boosts Energy Efficiency

## “EXOIKONOMO” Programme in Greece for Municipalities

The Greek Ministry of Development in cooperation with the Central Union of Municipalities and Communities of Greece and the Institute of Public Authorities has developed the “EXOIKONOMO” programme, aiming at supporting public authorities to introduce a sustainable development plan. The programme is co-financed by the EU in the scope of the National Strategic Reference Framework (ESPA). The main goals of the programme are:

- Reduction in energy consumption
- Improvement of living conditions
- Contribution to improving cities’ microclimate
- Mitigation of the city warming problem<sup>2</sup>

- Awareness raising on energy efficiency for both public authorities’ personnel and citizens
- Pilot integrated energy efficiency applications and actions
- Contribution to implementing EU-Guideline 2006/32 on energy end-use efficiency and energy services as well as National Energy Efficiency Action Plan (EEAP)
- Contribution to implementing EU-Guideline 2002/91 and Law 3661/08

The “EXOIKONOMO” programme provides a 70% subsidy for energy investments at local level accounting for an overall 100M€ budget (72M€ the foreseen grants). The following table presents the eligible actions of the programme:

	Pillars		Actions
1	Interventions in existing municipal buildings	1.1	Selected “mix” of interventions for Energy Efficiency 2009-2012
2	Interventions in common municipal infrastructure at a local level	2.1	Interventions in municipal outdoor lighting infrastructure
		2.2	- Micro-climate improvement - Pedestrian areas (combined with 2.1) - Squares
3	Municipal transportation	3.1	Interventions in municipal fleet vehicles
		3.2	City mobility studies
		3.3	Transportation network
4	Interventions in other technical (city) infrastructures	4.1	Energy efficiency improvement in pumping stations, biological processes for water treatment, etc.
5	Dissemination, networking, publicity and promotional actions	5.1	- Specialized actions for awareness raising and training of municipality staff - Information campaigns/awareness raising of citizens - Eco-driving
6	Technical support of action	6.1	- Preparation studies - Technical consultant - Assessment



## Public Procurement boosts Energy Efficiency

The first round of applications was completed at the end of July 2009 and the approved projects are scheduled to begin before the end of 2009. This programme addresses local municipalities (with more than 10.000 inhabitants). Depending on each municipality's number of registered inhabitants, different sets and categories of measures are mandatory for each project proposal to be evaluated and approved. The "EXOIKONOMO" programme fosters the participation of municipalities in joint procurements for energy efficient products as a possibility to achieve cost savings.

It is foreseen that relevant actions including associated products to be bought and installed are going to be implemented in a number of municipalities.



"EXOIKONOMO" programme in Greece for municipalities

## The City of Amaroussion

In May 2009, the City of Amaroussion proceeded in a procurement procedure for new street lighting equipment in order to replace 500 old-type luminaires with new-technology. Until the end of 2009, another 2.000 new-technology luminaires are going to be purchased. Given that the new metal

halide lamps are more energy efficient than the previously installed high pressure mercury lamps, the new-technology luminaires bear a high potential for energy efficiency. The nominal savings that are achieved solely through the substitution of lamps are presented in the following table:

Type of Lamp	High Pressure Mercury	Metal Halide
Wattage	250 W	150 W
Screw base	E40	E40
Luminous flux	12.700 lm	17.000 lm
Lifespan	16.000 hours	32.000 hours
Operation time in one year	3.650 hours/year	
Total annual electricity consumed	912,50 kWh	547,50 kWh
Electricity price	0,1 €/kWh	
Annual operating cost	91,25 €	54,75 €
Annual energy savings per lamp	–	365,00 kWh
Annual cost savings per lamp	–	36,50 €
Annual CO <sub>2</sub> emissions reduction per lamp	–	328,50 kg
Annual savings in percentage	–	40,00%
<b>Total energy savings for 2.500 lamps</b>	–	<b>912,50 MWh/year</b>
<b>Total cost savings for 2.500 lamps</b>	–	<b>91.250,00 €/year</b>
<b>Total CO<sub>2</sub> emissions reduction for 2.500 lamps</b>	–	<b>821,25 tonnes CO<sub>2</sub>/year</b>



**Public Procurement boosts Energy Efficiency**



Amaroussion's replacement of old lighting equipment

Moreover, the **large-scale procurement** (2.500 luminaires) contributed to a **market price reduction of up to 46%**.

The aforementioned initiative of the City of Amaroussion will act as a good example for the replacement of old, highly energy consuming equipment in Greece, according to the Greek Energy Strategy for public lighting. The concrete energy and cost savings, as well as the achieved reduction in CO<sub>2</sub> emissions will play a significant role for replicating the initiative in other Greek municipalities. Moreover, the market price reduction achieved through large-scale procurement will even enhance the effort for the establishment of a joint procurement scheme among different municipalities.

## Munich

### BMW/E.ON-Project Munich

Since July 2009 this pilot project has been implemented in Munich in cooperation with BMW and electric power company E.ON. Currently the vehicle fleet consists of 15 MINI E. The charging-infrastructure required, accessible publicly and by all standard e-vehicles, was installed by E.ON. Energy needed for the e-cars' operation primarily comes from hydro power. The pilot project's goal is to gain experience concerning demand for charging stations and car usage.



BMW Mini-E  
source: © Copyright BMW AG, Munich (Germany)



## Government Promotion Programme “Electric Mobility in Model Regions“

The German Government promotes expansion and market preparation of electric mobility. Running from 2009 until 2011, the scheme is funded with a total of 500 billion Euro from the economic stimulus package II. Among others, 8 model projects in the Federal Ministry of Transport, Building and Urban Affairs' promotion focal point “e-mobility in model regions“ receive funding with a total of 115 billion Euro. Actors from science, industry, and municipalities involved cooperate closely in order to advance the set up of infrastructure and the entrenchment of electric mobility in public space and contributing to the government's target of 1 billion e-cars driving on Germany's roads by 2020. The scheme aims at an efficient integration of cars, public transport, transport and utility vehicles as well as bicycles with alternative driving. Additionally a user-friendly and secure charging infrastructure shall be implemented. To participate as model region, regionally organised cooperation groupings from industry and science, cities, municipalities, and region could apply.

### The following activities are planned:

Initially a production line for commercial electric vehicles for transport and car traffic is established and, simultaneously, a network of electric charging stations set up, the focal point being a practically emission free commercial and private individual transport.

In order to integrate public transport in the concept of sustainable e-mobility, the development of hybrid busses is promoted. Accompanying studies by respective research institutes will achieve the technical optimising of vehicles, net and charging infrastructure as well as the adaption of the overall structure to the requirements of vehicle users.

Munich as one of the model regions promotes development and market introduction of e-vehicles for transport and car traffic as well as the accompanying charging infrastructure. To cover an increased demand in electricity, the infrastructure required for an environmental and climate friendly energy supply is set up, respectively complemented. The expected supplementary demand in electricity will be exclusively covered by renewable energy.

A first SWM charging station for e-cars was started 10th September 2009.

### For further information please contact:

Ms Ines Speiser  
E-Mail: [speiser.ines@swm.de](mailto:speiser.ines@swm.de)



**Public Procurement boosts Energy Efficiency**

**pro ▶▶ EE News & Events**

**Revised pro ▶▶ EE Guidelines for Sustainable Public Procurement**

Product guidelines for electrical street lighting, LED road signs and other electrical equipment, fuel efficiency of cars and vehicle fleets as well as for office equipment can be found the pro-EE website:  
[http://www.pro-ee.eu/fileadmin/pro\\_ee/inhalte/dokumente/materials\\_guidelines.pdf](http://www.pro-ee.eu/fileadmin/pro_ee/inhalte/dokumente/materials_guidelines.pdf)

**European Findings on Green Public Procurement (GPP)**

The study “Collection of statistical information on Green Public Procurement in the EU” conducted by Pricewaterhouse Coopers, Significant and Ecofys, gives an overview of the level of Green Public Procurement (GPP) in 7 Member States in the years 2006 and 2007. The countries investigated in are Austria, Denmark, Finland, Germany, the Netherlands, Sweden, and the United Kingdom. The study includes a methodology for measuring quantitative levels of GPP (number and value of green contracts) as well as CO<sub>2</sub>- and financial impact of GPP. The methodology will be used for monitoring GPP performance in all Member States as from 2010.

According to the report, in 2006/2007 an average overall level of 45% 'green' of the total procurement value and 55% 'green' of the total number of contracts was gained in the 7 countries. The study concluded that GPP contributes to an average reduction of CO<sub>2</sub> emissions of 25% in 2006/2007 when purchasing green for the ten product groups subject to the analysis – at the same time implying that public purchasers have the possibility to substantially reduce CO<sub>2</sub> emissions through GPP.

The study shows that for most product groups, GPP results in a reduction of CO<sub>2</sub> emissions; construction, gardening, paper and textiles attaining the highest reduction percentages.

For more details please refer to:  
[http://ec.europa.eu/environment/gpp/pdf/statistical\\_information.pdf](http://ec.europa.eu/environment/gpp/pdf/statistical_information.pdf)

**pro ▶▶ EE bundles Requests for E-Cars**

The car aimed at is the REVA NXR Intercity respectively Intercity Deluxe, a three-door, four-seater hatchback. With a charging time of 8 hours its driving range covers around 160 kilometers/100 miles. A 15 minute fast charge (Intercity: optional) offers a driving range of 40 kilometers/25 miles, and in case of emergency with a call or text to the call center a remote boost charge is available. The car reaches a top-speed of 104kph/65mph. Having gained experience with a large e-car fleet, the REVA electric car company will put the REVA NXR on the market presumably as from mid 2010. It will be available for around 28.000 respectively 30.000 Euro. According to the car company the REVA will have the lowest dust-to-dirt carbon footprint of any car in mass production.



Municipalities interested in more information please contact:

Dr. Andreas Kress:  
[a.kress@climatealliance.org](mailto:a.kress@climatealliance.org)





## Public Procurement boosts Energy Efficiency

### pro▶▶EE presented to Chinese Delegation at Venice International University

In July 2009, the **Local Agenda21 Office** lectured at **Venice International University**. In the framework of the course “Decision Making for Developing Green Cities” the lesson was targeted at “Urban Sustainability and Local Agenda 21: the Case Study of Ferrara”. The lesson was addressed to a Chinese delegation of fifteen experts, members of the Environmental Department of the Municipality of Beijing and being involved in a cooperation programme China-Italy.

The speaker (Maurizio Abbati) presented best practices and projects while focusing on the essential link between environmental management systems (e.g. EMAS), environmental accounting systems and communication and information tools, using a participative approach where possible. One of the best practices presented was the participation in pro-EE, purchasing energy efficient IT products including green criteria. For any further information: <http://www.etcprogram.org/en/trainings/sustainable-urban-development-and-ecobuilding/green-cities>

### Ferrara’s Award

The Municipality of Ferrara, represented by the Councillor of Environment Rossella Zadro, has recently entered in the managing board of the *Italian Coordination of Local A21*. Basis for the award are Ferrara’s commitments, current and future, in the implementation of tools for sustainable development. The award is consequent to an official decision taken in Arenzano (Genoa) during the Xth National Meeting of Italian Local Agenda21, the former association of A21 in Italy.

### pro▶▶EE cooperates with Intelligent Energy Projects

#### Buy Smart – Green Procurement for Smart Purchasing

The project’s central strategic objective is to increase the share of energy efficient procurement in Europe in order to reach a higher market impact and therefore to support the production and the use of energy efficient goods and services. The project is addressed to both private companies and public authorities. Aside from answering general questions the project offers procurement tools for the product groups building components, green electricity, household appliances, lighting, office equipment and vehicles. Find more information under: <http://www.buy-smart.info/home/welcome-page-english>

#### SMART SPP - Innovation through Sustainable Procurement

SMART SPP is a European project promoting the introduction of new, innovative low carbon emission technologies and integrated solutions onto the market. The project encourages early market engagement between public authority procurers and suppliers and developers of new innovative products and services in the pre-procurement phase of public tendering. You will find the latest project news on the SMART SPP website: <http://www.smart-spp.eu>



**Public Procurement boosts Energy Efficiency**

**Events**

**3rd International Conference on Green Purchasing will be held from October 20 to 23 in Suwon, Republic of Korea**

The conference aims at combating climate change with green growth and expanding the green purchasing network. The conferences goals are

- to confirm the role of green purchasing in building a sustainable socioeconomic system for the world while developing specific implementation strategies with the goal of mitigating climate change,
- to promote mutual partnerships in formulating a 10-year framework on sustainable consumption and production currently being pursued by the UN's Marrakech Process so as to reflect the opinions of officials in the public sector, business groups, consumers and NGOs,
- to form a global network to support green purchasing by sharing the systematic, technical knowledge and experience necessary for implementing and expanding green purchasing and providing opportunities for cooperation.

For detailed information please visit:

<http://www.icgpsuwon.org/>



**Germany: Conference “Green Procurement in the EU” – November 4, IHK Frankfurt**

The symposium presents the main results of the survey “Green Public Procurement in the EU”.

The following topics will be discussed:

- Sustainability clauses in supplier contracts
- Green procurement und label criteria
- Good practices

For detailed information please visit:

[http://www.agrion.org/sessions/agrion-de-Green\\_Office\\_und\\_Green\\_Procurement.htm](http://www.agrion.org/sessions/agrion-de-Green_Office_und_Green_Procurement.htm)

**Project Coordinator:**



**Contact:**

Climate Alliance – European Secretariat  
 Galvanistr. 28, 60486 Frankfurt am Main, GERMANY  
 Dr. Andreas Kress  
 Tel: +49-69-71 71 39-33  
[a.kress@climatealliance.org](mailto:a.kress@climatealliance.org)

**Partners:**

Climate Alliance Austria (AT), Upper Austrian Academy for the Environment (AT), Alleanza per il Clima onlus (IT), European Partners for the Environment (EU), Ecoinstitut Barcelona (ES), ICLEI Local Governments for Sustainability (EU), National Institute for Engineering, Technology and Innovation (PT), Centre for Renewable Energy Sources (GR)

**and the cities of:**

Cascais (PT), Ferrara (IT), Frankfurt am Main (DE), Mainz (DE), Maroussi (GR), Munich (DE), Murcia (ES), Torres Vedras (PT), San Sebastian (ES)

**Edited by:** Heike Unterpertinger

**pro▶▶EE is co-funded by:**

