



EMAS AWARDS 2014



*Effective eco-innovations
supporting improvements in
environmental performance
7 April 2014, Hannover*

Environment



EMAS
VERIFIED
ENVIRONMENTAL
MANAGEMENT

02 CONTENTS



**EMAS meetings and
EMAS Awards ceremony**

Monday 7 and Tuesday 8 April 2014
Hannover, Germany

Side events:
16th European Forum on Eco-innovation
ETV Stakeholder Forum and ETV handing-out
of statements of Verification



In 2014 the EMAS Awards ceremony took place during the Hannover Messe, in parallel to the 16th European Forum on Eco-innovation and the ETV Stakeholder forum.

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Dear EMAS community,

It is a real pleasure to see the levels of creativity, excellence and engagement shown by the entries for the EMAS Awards 2014. This year, the Awards focus on the important issue of eco-innovation. In this booklet you will find many inspiring examples of EMAS-registered organisations that have been particularly innovative in finding ways to reduce their environmental impact. Whether by changing the way they provide a service or by making their supply chains more sustainable, these organisations have come up with novel and inspiring 'greening' strategies. But greening does not only bring environmental benefits; it also makes increasing business sense. Many of the examples you see here embody the much-needed transition towards a resource-efficient economy, in which entrepreneurs gain more value added from each tonne of material, each joule of energy, each cubic metre of water and each hectare of land. An important aspect of this is the creation of a circular economy, in which materials are pumped back into the economy again and again instead of being buried or burned.

The European Commission is actively facilitating and supporting this transition process through its Roadmap to Resource Efficiency, and considers EMAS instrumental to achieving this aim. By rewarding environmental and eco-innovative front runners and encouraging eco-innovation, EMAS contributes to steady economic growth, creating 'green' business opportunities across the whole economy. Eco-innovation does not only help to create and provide new products, techniques and services; it also facilitates the realisation of both environmental and financial goals. All EMAS Award winners and nominees deserve praise for being the pioneers of systematic and innovative environmental management approaches. By implementing the premium environmental management tool EMAS, these organisations are already role models for others across the world – and we are very pleased to be able to recognise this outstanding environmental contribution with the EMAS Awards.

*Janez Potočnik
European Commissioner for the Environment*



"The organisations that participated in the nominations for the 2014 EMAS Awards represent a very clear expression of the growing understanding that sustainability is at the core of visionary and innovative business practices, permeating relationships and engagement with stakeholders and the broader community. It is inspiring that such eco-innovative leaders are to be found widely – in small as well as large organisations, in the public and private sectors, and in all countries in Europe. A variety of solutions are proposed by participating organisations, addressing the consumption of water, energy and materials as well as waste minimisation. Their approaches go beyond the organisation itself, considering sustainability implications over the entire product lifecycle and throughout the supply chain, and adapting to the critical environmental concerns of the contexts in which they operate. This, coupled with significant attention to communication and transparency in line with EMAS principles, has provided the basis for the outstanding achievements of all participants.

While we congratulate those organisations that are recognised with the 2014 EMAS Awards, we also celebrate the accomplishments of all those who participated in this year's nominations, and call for their excellent practices and initiatives to be followed, replicated and disseminated more widely."



Jury Chair Elisa Tonda

heads the Business and Industry Unit of the United Nations Environment Programme (UNEP) – Division of Technology Industry and Economics. She previously held the post of Regional Officer of the UNEP Regional Office for Latin America and the Caribbean in Panama City. Elisa has also worked at UNIDO (the United Nations Industrial Development Organization) and in the private sector providing advice on environmental issues.

THE JURY 05

Jury Members

Ignacio Calleja works in the Energy and Environment Unit of Tecnalia Research & Innovation. He is president of the European Network of Environmental Research Organisations and chairman of the Industrial Research Advisory Group, and of 'Sustainable Process Industry Through Resource and Energy Efficiency'.



Katharina Krell is co-founder and manager of Greenovate! Europe, a Europe-wide expert group dedicated to bridging the gap between research and the market for green innovations. She also owns a private company which markets innovative waste management solutions.



David Shenton is Senior Environment Manager for Lafarge Tarmac Cement & Lime UK. He implemented the first water footprint assessment and the first energy management certification in the UK cement and construction sector. Lafarge Tarmac won an EMAS Award in 2012.



Klaus Rennings is vice head of the Centre for European Economic Research's department for Environmental and Resource Economics, Environmental Management. He has headed numerous national and international research projects dealing with eco-innovation policies, indicators and strategies for sustainable business.



Andrea Ricci is vice president of the Institute of Studies for the Integration of Systems, an independent research and consultancy centre. He has led major EU research projects in the fields of sustainability policy analysis and impact assessment, technology assessment and scenario building.



Caroline Wadsworth works as an independent clean tech consultant and was Head of Consulting/Environment for Isle Utilities, a clean tech and innovation consultancy. She is also participating in the development of the EU Environmental Technology Verification programme.



Gianluca Salvatori is the president and CEO of Progetto Manifattura, a 'green innovation hub' which provides office space, production facilities and networking opportunities for young professionals and new companies in the environmental technologies and services sector.



Private sector organisations

Private – Micro

Italy



Fondazione per l'Agricoltura F.lli Navarra

uses its demonstration orchard to carry out research into eco-friendly agricultural methods. The foundation is participating in the AGER INNOVAPERO project to address key breeding issues in pears. This project evaluates the effectiveness of anti-insect nets in pear pest control, an environmentally friendly technique that could bring about a reduction in the application of sprays in orchards.

www.fondazione.navarra.it

Private – Micro

Austria



KANZIAN ENGINEERING & CONSULTING GmbH

is an environmental quality, safety and energy consultancy which supports companies in Austria and neighbouring countries with the implementation and maintenance of environmental and energy management systems. KANZIAN itself operates according to the philosophy of continuous environmental improvement, offsetting its CO₂ emissions, using only renewable energy and purchasing environmentally friendly products.

www.kec.at

Private – Micro

Germany



Modell Hohenlohe e.V.

has been active in the field of corporate responsibility in relation to environmental and climate protection since 1991, when it was established as a non-profit organisation. The organisation places an emphasis on facilitating the exchange of experiences among its members via round tables on energy and resource efficiency, work groups, and trainings and events focusing on environmental issues, including environmental management systems (EMS).

www.modell-hohenlohe.de

THE 29 NOMINEES

07

VAS. & EK. KOTTARIDI G.P.

has developed a unique eco-innovation. They produce barbecue briquettes made from Greek olive pits. This EU-patented product is a renewable source of energy, free of chemical additives, and non-CO₂-emitting. These briquettes are not only the first green product of their kind, but are also produced in an innovative and environmentally-friendly manner from waste fuel.

www.klimiscoal.gr

Druckerei Lokay e.K.

established in 1932, was one of the first carbon-neutral printing firms. Over the past 20 years it has dispensed with alcohol and switched to eco-inks and green energy, as well as developing the first comprehensive eco-friendly paper collection in Europe, with 45 different varieties. Lokay also runs a company bicycle scheme. The company shares its green specialist knowledge with other printers in order to promote eco-friendly practices throughout the industry.

www.lokay24.de

HR Björkmans Entrémattor AB

a proud green pioneer in the floor mat rental and laundry market, has developed an innovative mat washing system. The use of this closed system, with low washing temperatures, special detergents and a water reuse rate of up to 98%, has resulted in sizeable energy and water savings, in addition to significant reductions in the volume of used and contaminated water entering the municipal waste water treatment cycle.

www.hrbjorkman.se

Private – Micro

Greece

WINNER


Private – Small

Germany



Private – Small

Sweden

WINNER


Private – Small

Ireland

Lee Strand Co-operative Creamery

a liquid milk processor, demonstrates that excellence in environmental performance can be achieved through the optimisation of existing processes. It emphasises the key role played by its employees in identifying and implementing innovative measures. Lee Strand further contributes to environmental protection by training its milk suppliers in agricultural environmental programmes.

www.leestrand.ie



Private – Small

United Kingdom

Park Lane Press Ltd

a commercial printing company specialising in bespoke marketing materials, maintains a strong focus on quality while taking action to minimise its carbon footprint.

The company operates the only waterless printing press in the UK; other sustainability measures include water reclamation and rainwater harvesting, heat transfer systems, climate control systems, improved factory insulation and zonal lighting.

www.parklanepress.co.uk



Private – Small

Belgium

Your Mover Logistics

a traditional removal and assembly company, has recently introduced a new range of services entitled 'Nearly New Office Facilities' (NNOF), which enables clients to take a sustainable approach to their office furniture needs. NNOF is a forerunner in the field of 'urban mining' and the circular economy: it transforms existing furniture into new office equipment, resulting in significant reductions in waste (up to 70%) and in CO₂ emissions.

www.yourmoverlogistics.be



THE 29 NOMINEES

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Gloria Palace Amadores Thalasso & Hotel

is situated in the south of Gran Canaria and belongs to a hotel chain of the same name. The hotel is committed to the continued expansion of its renewable energy facilities, even operating its own photovoltaic plant and installing a biomass boiler for wood waste, thereby considerably reducing its greenhouse gas emissions and energy costs.

www.gloriapalaceth.com

Private – Medium

Spain



Sächsische Bildungsgesellschaft für Umweltschutz und Chemieberufe Dresden mbH

uses EMAS as its point of reference to familiarise future skilled workers in the chemical and waste disposal industries with the concept of corporate sustainability. SBG's innovative vocational teaching approach encourages students to transfer and reproduce EMAS skills and values, in addition to providing them with the tools to develop their own ideas for improving environmental performance.

www.sbg-dresden.de

Private – Medium

Germany



WINNER

Accord Housing Group

is a large registered social landlord (RSL) committed to reducing the emissions associated with existing and newly developed housing stocks. The Group's ambitious photovoltaic retrofit programme will produce 4,205,000 Kw/h of electricity per year. In 2011, it also took the strategic decision to establish a LoCaL Homes factory, internalising the production of low-carbon housing.

www.accordgroup.org.uk

Private – Large

United Kingdom



Private – Large

Hungary




Audi Hungaria Motor Kft

which manufactures a range of car body parts, was the first EMAS-registered organisation in Hungary. The company took a strategic decision in 2010 to incorporate biodiversity-related issues into its EMAS operations. Its actions in this field include nature conservation initiatives on company premises, awareness raising among employees and in the local community, and financing a 100-year scientific research project on carbon dioxide-absorbing oak forests.

www.audi.hu

Private – Large

Poland



CEMEX Polska Sp. z o.o.

a leading provider of construction materials, achieved a 10% reduction in CO₂ emissions at its cement plant through the use of biomass fuels and raw waste materials that contain significant quantities of non-carbonate lime, in addition to applying innovative technologies to enhance the energy efficiency of the clinker production process.

www.cemex.pl

Private – Large

Germany



himolla Polstermöbel GmbH

one of Europe's leading producers of upholstered furniture, has gained German 'Blue Angel' eco-label certification for its entire product range. In recent years, the company has achieved particular improvements in the area of energy management, employing an energy manager, installing a photovoltaic system and participating in the Energy Efficiency Network initiated by the Federal Ministry for the Environment.

www.himolla.com

THE 29 NOMINEES

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OEZ s.r.o.

the Czech market leader in the electro-technical sector, is one of the top companies in this field in Central Europe. The principle 'ecology + economy = eco-design' governs OEZ's approach to environmentally friendly production and products. The company has adopted an environmental product policy to reduce the material and energy demands of its production processes. OEZ uses recyclable materials in its products wherever possible.

www.oez.com

Private – Large

Czech Republic



Stora Enso Barcelona

produces coated recycled board for the consumer packaging sector using a variety of recovered papers from a number of different countries. To deepen its commitment to recycling, the company has developed an eco-innovative method to recover all of the materials used in beverage cartons: its Barcelona mill is the first in the world to run an industrial-scale pyrolysis system for recycling polyethylene and aluminium.

www.storaenso.com

Private – Large

Spain



STMicroelectronics

assembles and tests semiconductors. The company's latest eco-innovation measures have primarily focused on optimising energy efficiency: all of its heating requirements are met through heat recovery from its compression cooling system, and it has converted to LED lighting. These measures have saved a total of 7,640 tCO₂e annually. The company also operates water microfiltration and recycling plants on site, achieving a recycling ratio of 74%.

www.st.com/web/en/about_st/careers/kirkop.html

Private – Large

Malta



Private – Large

Italy

**UniCredit S.p.A.**

is committed to promoting the transition towards a sustainable economic model through its lending and procurement practices. The introduction of 'FirmaMia', a new service enabling customers to sign all documents in electronic format, has enabled UniCredit to systematically embed environmentally friendly technologies in its core processes.

www.unicreditgroup.eu

Private – Large

Finland

**UPM-Kymmene Oyj**

has reinvented its business model to become 'the Biofore company', combining the innovation of the biotechnology industry with the heritage of the forest industry.

This strategy is leading to practical innovations that result in increased resource and energy efficiency, for instance the building of material recycling and recovery facilities and the construction of the world's first biorefinery producing wood-based biofuels.

www.upm.com

WINNER

Private – Large

Austria

**voestalpine VAE GmbH**

were the first companies to apply a holistic life cycle approach to engineering, and specifically to producing turnouts (switches) for railway systems. Through intensive research and development work, VAE has optimised its use of materials and logistics, as well as the recycling of turnouts.

Other initiatives include the adoption of a CO₂-neutral energy policy and insistence on adherence to global HSE standards by the companies' affiliates.

www.voestalpine.com/vae

Public sector organisations

Abfallwirtschaft Lahn-Dill

is the public body responsible for waste management in the German district of Lahn-Dill (Hessen). AWLD, which introduced an environmental management system as early as 1999, produces electricity from both landfill gas and the waste heat generated by the operation of its machinery. AWLD's site waste management centre in Aßlar has been energy self-sufficient since the beginning of 2014; any additional energy generated flows into the public grid.

www.awld.de

Aeropuerto de Menorca

one of the airports managed by state corporation Aena Aeropuertos SA, has significantly reduced its total water and electricity consumption by re-using waste water treated in a membrane bioreactor plant, and by installing an innovative automatic climate and lighting control system.

www.aena-aeropuertos.es

Tiroler Flughafenbetriebsgesellschaft m.b.H.

runs Innsbruck Airport, which is committed to raising the bar for corporate sustainability. Among other projects, Innsbruck was the first European airport to replace its entire apron lighting system with LEDs. This initiative reduced energy consumption and carbon emissions by more than 50%, as well as eliminating light pollution in the environment almost entirely.

www.innsbruck-airport.com

Public – Small

Germany

Abfallwirtschaft Lahn | Dill
Eigenbetrieb des Lahn-Dill-Kreises

Public – Small

Spain



Public – Small

Austria

FLUGHAFEN INNSBRUCK
www.innsbruck-airport.com

Public – Large

United Kingdom

Environment Agency

is committed to environmental protection; this commitment extends to its own operations. The EA reduces its environmental impact through innovative mechanisms such as the Carbon Reduction Fund, which invests in new low-carbon ideas put forward by Agency staff. This has resulted in innovations such as the development of a fish monitoring device that uses methanol fuel cells.

www.environment-agency.gov.uk



Public – Large

Austria

Magistratsabteilung 48 – Stadt Wien

municipal department 48 of the City of Vienna, is one of Europe's largest waste disposal organisations. MA 48 gives the environment top priority by implementing measures such as waste management and energy saving trainings provided both to its own staff and in kindergartens and schools. One of its sub-divisions is located in a 'passive house' and the department also practises green procurement.

www.wien.gv.at



Public – Large

Poland

Przedsiębiorstwo Wodociągów i Kanalizacji Okręgu Częstochowskiego S.A.

is a public water supply and sewerage joint stock company. PWiK has implemented a number of measures to reduce losses in the water distribution network, the most innovative of which is pressure management. The company was the first in Poland to use hydraulic pressure regulators and conducted research in this context which will enable the development of reference materials for the entire region.

www.pwik.czest.pl



THE 29 NOMINEES

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Umweltbundesamt

is the German federal scientific agency for the environment. The first zero-energy public building in Germany, 'Haus 2019', was built for use by the UBA in 2013. It fulfils the EU legal requirements on energy efficiency for public buildings six years in advance, and will hopefully encourage others to follow.

www.umweltbundesamt.de

Public – Large

Germany

WINNER

 Umwelt Bundesamt

Regional Authority of the Moravian-Silesian Region

is a flourishing public administrative institution currently striving to become an environmentally-friendly, cost-efficient operation that sets a positive example for other public agencies. Its initiatives include the introduction of an innovative targeted subsidy programme to achieve the highest possible reduction in dust emissions at the lowest possible cost.

www.kr-moravskoslezsky.cz

Public – Large

Spain

 Moravian-Silesian Region

IMPRINT

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EMAS Awards 2014

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Photos

Trophy design 2011-2014 by ko floriana

Layout

Anna Malimport, Pracsis

Status

March 2014

ISBN

978-92-79-36827-1

DOI

10.2779/77104

