EU Environmental Technology Verification pilot programme

2nd ETV Stakeholder Forum

Hannover – April 2014
Innovation is the driving force of the European economy. Although new environmental technologies can make a significant difference in terms of resource and cost savings, they often fail to gain a foothold in the market simply because they are new and untried.

Environmental Technology Verification (ETV) aims to improve the situation for innovative environmental technologies by providing verified evidence, derived from credible and scientifically sound procedures, that they perform as claimed.

The end product is an ETV Statement of Verification, a document that ascertains the performance of new technologies and enables them to be differentiated from existing, competing technologies.

All market-ready technologies with innovative and environmentally beneficial elements can be proposed for ETV certification. The scheme, presently in its initial pilot phase, currently covers the following technology areas:

- **Water treatment and monitoring** (e.g. monitoring water quality, treatment of drinking water and waste water);
- **Materials, waste and resources** (e.g. separation and sorting of solid waste, recycling of materials, end-of-life products and chemicals, biomass-based products);
- **Energy** (e.g. renewable energy, energy generated from waste, energy efficiency).
ETV can help innovative technologies penetrate new markets by enabling to make useful comparisons between their performance and that of existing technologies. ETV is particularly suited for use in the following contexts:

- Reaching international customers with performance claims tailor-made to the needs of targeted markets.
- Validating the innovative features that make a technology unique, thus going well beyond simple compliance with regulations or standards.
- Providing information on the performance of new technologies entering the market and allowing them to be differentiated from existing, competing technologies.
- Persuading investors of the potential of new activities or investments.
- Facilitating the granting of permits or public authority approval for new installations.
- Increasing the market share held by a particular technology and facilitating access to new national or international markets.

The ETV Stakeholder Forum is open to stakeholders with an interest in ETV who wish to exchange views on the pilot programme, advise the European Commission and its Technical Working Groups on its implementation, and contribute to its eventual evaluation.

After one year of operation, the 2nd ETV Forum will take stock of the initial results of the ETV pilot programme and discuss the benefits ETV can bring to technology users in two specific contexts:

- Industrial supply chains: identification of technologies by industrial purchasers; integration of ETV data in their relations with technology suppliers and in purchasing or investment decisions.
Monday 7 April 2014

09:00 - 09:30
Registration and welcome coffee

09:30 - 09:40
Welcome address
by Efstatios Petseves, Head of Unit, Energy Systems Evaluation Unit, Institute for Energy of the European Commission’s Joint Research Centre

09:40 - 10:10
I. Introduction
The ETV pilot programme: how it works, how it can benefit technology users and purchasers, and how it promotes innovative solutions to Europe’s environmental challenges.
by Pavel Misiga, Head of Unit, European Commission DG Environment

10:10 - 11:05
II. One year of the ETV pilot programme: taking stock
How were the first verifications conducted?
What were the objectives of the various ETV actors, and have they been attained?
How will the Statements of Verification be used on technology markets?
Moderated by Izabela Ratman, Institute for Ecology of Industrial Areas (Poland), with the participation of: Jimmy Larsen, JIMCO (Denmark), Technology Developer Claire Michaud, Rescoll (France), ETV Verification Body Leo Carswell, WRc (UK), ETV Verification Body

11:05 - 11:35
Coffee break

11:35 - 13:00
III. Verification supporting urban environment solutions
How can the ETV scheme benefit public authorities in relation to their technology purchasing policies (e.g. the identification of innovations to meet their needs, proof of performance in public tendering procedures)?
Moderated by Pierre Henry, European Commission, with presentations by: Pekka Sauri, Deputy Major of Helsinki, chairman of the Procura+ Campaign Wolfgang Teubner, Local Governments for Sustainability (ICLEI), European Secretariat Mette Tjener Andersson, ETA-Danmark (Denmark), ETV Verification Body

13:00 - 14:00
Joint lunch with Eco-innovation Forum and EMAS meeting participants

14:00 - 15:15
IV. Credible information on industrial greentech performance
How can the ETV scheme benefit industrial users of green technologies in their supply chains (e.g. performance based on user needs, integration into collaborative approaches)?
Moderated by Martin Charter, The Centre for Sustainable Design (UK), with presentations by: Östen Ekengren, IVL (Sweden), Chairman of the European Committee of Environmental Technology Suppliers Associations (EUCETSA) Marta Gloger, Asket (Poland), General Director Assistant Jessica Cross Brown, (United Kingdom), The Centre for Carbon Measurement at NPL, Research Analyst

15:15 - 15:30
V. Wrap-up – conclusion
With Janez Potočnik, European Commissioner for the Environment

15:30 - 15:45
End of the Stakeholder Forum; information on parallel events

15:45 - 17:25
Brokerage event with ETV Verification Bodies
Meet representatives of the Verification Bodies involved in the ETV pilot programme, as well as the ETV support team from the European Commission Joint Research Centre, Institute for Energy and Transport
Introduced by Efstatios Petseves, European Commission Joint Research Centre, Head of Unit on Energy Systems Evaluation
Moderated by the ETV support team (Joint Research Centre) with the participation of ETA Danmark, ITP-OP, NPL|CCM, Rescoll and WRc

Monday 7 April 2014 (continued)
ETV, Eco-innovation Forum & EMAS joint events

09:00
ETV, EMAS and Eco-innovation Exhibition
Featuring stands representing developers of technologies under verification by ETV in addition to eco-innovation and EMAS projects

17:30
Introduction to the guided tours of the Hannover Messe on 8 April
Transfer to the New Town Hall for the EMAS Awards ceremony by tram

18:30
EMAS Awards ceremony
Venue: New Town Hall - Trammplatz 2, D-30159 Hannover

20:30
Cocktail reception
Tuesday 8 April 2014

09:00
ETV, EMAS and Eco-innovation Exhibition
Featuring stands representing developers of technologies under verification by ETV in addition to eco-innovation and EMAS projects

09:00
Possible participation of ETV stakeholders in the 16th European Forum on Eco-innovation (sessions 5 & 6)
Venue: Conference Area Hall 2 - “BRUSSEL-ROM” room (recommended entrance: Nord 2/North 2)

12:50 - 14:00
Lunch

14:00 - 16:00
Guided tours of the Hannover Messe

16:15
Presentation of ETV (IndustrialGreentech Hall – Hall 6)
Boosting eco-technologies through verification
With Pierre Henry, Policy Officer, European Commission DG Environment

The ETV Stakeholder Forum will be held in parallel to the 16th European Forum on Eco-innovation and the European EMAS Awards Ceremony and EMAS meetings. A joint programme bringing together the three events is proposed on the evening of 7 April and on 8 April.

European Forum on Eco-innovation

The 16th European Forum on Eco-innovation (titled ‘Wasted Potential! Towards circular economy in cities’) be held in Hannover, Germany, on 7 and 8 April 2014 will examine enabling factors and challenges of transitioning to a circular economy model in an urban context. These will be presented through the lens of the stakeholders: city authorities, citizens and businesses. The event will also identify and showcase eco-innovations that can facilitate the shift to a circular economy and support cities in meeting the new targets for municipal waste treatment set by EU waste legislation.

Visit DG Environment website to learn more about European Forum on Eco-innovation

Eco-Management and Audit Scheme (EMAS)

In 2005, the European Commission decided to reward the excellent work of EMAS-registered organisations in the field of environmental protection by launching the EMAS Awards.

For the 2014 EMAS Awards, the Forum of Competent Bodies and the European Commission have decided to focus on the achievements of organisations whose innovative measures have resulted in significant improvements in their environmental performance – and who can inspire others to do the same. Achieving eco-innovation within organisations focuses on the development and implementation of novel and creative solutions in production processes, throughout value chains, in business models and within the organisations themselves. This in turn leads to improved environmental performance.

In order to maximise the impact of the eco-innovation initiatives identified by EMAS, the European Commission wishes to select the best eco-innovation measures taken by EMAS-registered organisations, promote their adoption across the EU and boost their visibility.

More information on EMAS is available at:
www.emas.eu
Speakers’ biographies

Efstatios Peteves
heads the Energy Systems Evaluation Unit within the Institute for Energy and Transport of the European Commission’s Joint Research Centre. He has worked for the Commission since 1987 on issues including advanced materials technologies, power generation, alternative fuels, energy technology assessment, and modelling in support of energy technology and energy policy. The current focus of Stathis’ work is the SET-Plan, the energy technology pillar of the EU’s energy and climate change policy – in particular its scientific and technical support tool, the SET-Plan Information System (SETIS), which he leads. Stathis, who holds a PhD from the University of Florida, has authored more than 100 publications.

Pavel Misiga
Pavel Misiga is a graduate of Comenius University, London School of Economics and Princeton University. He worked as an environmental consultant and a government official in his home country Slovakia. He served as a director at the Ministry of Environment and advisor to the State Secretary for Environment. During Slovakia’s EU accession negotiations he represented his country in the negotiations on environmental issues. He joined the European Commission in 2003. In the period 2003–2006 he was responsible for the implementation of environmental projects financed by the Cohesion Fund. Since 2006 he has been the head of unit in Directorate-General for Environment responsible for the development and implementation of Sustainable Consumption and Production policy.

Iza Ratman-Kłosińska
has been the International Business Manager of the Institute for Ecology of Industrial Areas (IETU) since 1994. Her areas of expertise include outreach activities and building relationships aimed at bridging the gap between science and industry for the sake of R&D&I projects in the field of eco-innovation. From 1995 to 2000, Iza was responsible for outreach activities under the IETU-US DOE agreement of cooperation in the area of environmental restoration. She has participated in numerous EU-funded projects as an expert on stakeholder interaction and outreach activities. Iza has headed the Polish Platform of Eco-innovation since 2006, when she also became a member of the High-level Working Group on ETAP (now EcoAP). She is currently involved in the development and implementation of the EU’s Environmental Technology Verification (EU ETV) pilot programme.

Jimmy Larsen
a trained plumber and pipefitter, is the man behind JIMCO A/S, one of the world’s most unique air and waste water purification and sterilisation solutions providers. The company, founded by Jimmy in 1993, has developed a range of unique patented products which combine common sense with innovative thinking and are based on the use of UV-C light to produce ozone. JIMCO has been awarded a number of prizes for its products, including the EU’s environmental award.

Claire Michaud
has worked for Rescoll since 2010, where she is responsible for environmental issues including ETV, life cycle assessment, ecodesign and recycling. Claire has 10 years’ experience in the environmental assessment of innovative technologies with a particular specialisation in life cycle assessment. A qualified engineer, she is a graduate of UTT (the University of Technology of Troyes), where she studied environmental and materials engineering.

Leo Carswell
is passionate about the role new technology can play in enabling change and delivering outcomes in industry. In his role as leader of the technology business area at WRc, Leo is responsible for the organisation’s activities in relation to the development, assessment and implementation of a wide range of treatment and monitoring technologies within the water and waste sectors. These include both the WRc Approved™ scheme and the organisation’s role in Environmental Technology Verification (ETV).

Pierre Henry
(moderator) has been in charge of the EU Environmental Technology Verification (ETV) pilot programme since its design in 2009 and inception in 2011. He was previously co-ordinating the Environmental Technologies Action Plan (ETAP) in 2004-2009. For the European Commission, he also worked on the financial instrument LIFE and on the annual budget procedure.
He graduated as an engineer in the Ecole Centrale de Paris in 1992. His first job was on the development of a safety device for miners. He has always been interested in innovation and technologies for the benefit of safety and environment.

Pekka Sauri
is the Deputy Mayor of Helsinki. He has more than 20 years’ journalistic experience, including periods as editor-in-chief of Suomi magazine and as a radio journalist. He has also worked as an independent researcher, educator, writer, translator and cartoonist, and as a consultant on mental health projects. Pekka chaired the Green League of Finland from 1991 to 1993, and served as president of the Federation of European Green Parties from 1995 to 1997. He was first elected Deputy Mayor of Helsinki in 2003 and subsequently re-elected in 2010. Pekka, who holds a PhD from Brunel University, London, has published a number of books on psychology, communication and education.
Wolfgang Teubner is ICLEI Regional Director for Europe and also the Managing Director (CEO) of the ICLEI European Secretariat, where he is responsible for the strategic and economic development of ICLEI in Europe. Wolfgang has more than 20 years’ professional experience of working with local governments on sustainable urban development, sustainable procurement, and climate adaptation and mitigation, as well as sustainable urban transport policies. He has been involved in more than 100 European and international initiatives over his career, including several research projects. Wolfgang holds a degree in political science from University of Freiburg.

Mette Tjener Andersson has worked for DHI, experts in water environments, since 2008. She is also an ETV specialist for the verification body ETA-Danmark in cooperation with DANETV (www.etv-denmark.com). A consortium of technological service centres formed from a partnership between DHI, DTI, ArgoTech, FORCE Technology and DELTA, DANETV provides experts and test facilities for the ETV verification process. ETA-Danmark has been authorised to perform verifications in all seven technology areas by Danish accreditation body DANAK. To date, DANETV has verified technologies related to the water, air, energy, and agricultural sectors.

Martin Charter (moderator) has worked at director level on business sustainability issues in the consultancy, leisure, publishing, training, events and research sectors for over 22 years. Prior to this, he held a range of management positions in strategy, research and marketing in relation to gardening, building products, trade exhibitions, financial services and consultancy. Martin was the founding editor of The Journal of Sustainable Product Design, The Green Management Letter and Greener Management International (GMI), and is presently a member of the editorial boards of GMI, the International Journal of Sustainable Engineering and the International Journal of Sustainable Design. He also sits on the expert boards of the EC Eco-Innovation Observatory and the World Resources Forum. Martin is a regular international conference speaker, and author and editor of various books and publications.

Östen Ekengren joined IVL-The Swedish Environmental Research Institute 1978. He has been responsible for the build-up of the Environmental Technology department. He has also been involved in the establishment of the business area Sustainable production and consumption. He is since the year 2000 Vice President for IVL. During the years he has been responsible for the implementation of different separation Technologies in Swedish industries. He has been project leader for more than hundred National and fifteen international /European Environmental Technology projects during the years.

Marta Gloger has worked for Asket since 2005 where she supports the general director of the company and the Customer Care Department. She is responsible for representing Asket during official meetings and performing business trips on behalf of the general director. Marta also deals with environmental issues including the EU’s Environmental Technology Verification (EU ETV) pilot programme. Marta has participated in numerous trade missions abroad organised by the Polish Ministry of the Environment. She is a graduate of UAM (the University of Adam Mickiewicz in Poznan, Poland) where she studied European Studies.

Jessica Cross Brown coordinates NPL’s role as a verification body for the ETV scheme. Jessica works in the Centre for Carbon Measurement at NPL where she focuses on carbon accounting for large scale projects, producing events in the low carbon and climate science sectors, and researching areas such as future cities and novel low carbon technologies. In her previous roles, Jessica worked as a GHG auditor for the UNFCCC Clean Development Mechanism, where she focused on renewable energy and landfill gas projects in South Africa and Latin America.

Janez Potočnik is the European Commissioner for the Environment for the period 2010 to 2014. Prior to serving as European Commissioner for Science and Research from 2004 to 2010, Commissioner Potočnik was the Minister for European Affairs of the Republic of Slovenia and the head of the negotiating team for Slovenia’s accession to the EU. He has a background in the field of economic research and, among other prominent positions, held the posts of director of the Institute of Macroeconomic Analysis and Development (Ljubljana, Slovenia) and part-time Assistant Professor of Statistics and Economy within the Faculty of Law of the University of Ljubljana.
Accredited Verification Bodies

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For more information on the ETV pilot programme, please visit http://iet.jrc.ec.europa.eu/etv/ or contact ENV-ETV@ec.europa.eu