

Environmental Technology Verification *Newsletter*

ETV NEWS at a glance

First ETV completed

The Institute of Technology and Life Sciences (ITP), in Warsaw, Poland, has completed the first ETV verification with the publication of the first Verification Statement on the ETV website. The verified technology is a briquetting machine called **Biomasser** produced by the Polish company **ASKET**. It allows the compression of different types of non-dried straws into briquettes that can be used as fuel. For a complete description of the technology please consult the Verification Statement at the ETV's website <http://iet.jrc.ec.europa.eu/> or consult the company's webpage <http://en.asket.pl/>.



ASKET receives their Verification Statement for the Biomasser from the Polish Minister of Environment, at a ceremony in Warsaw, on the 11th of December, followed by a press release

ETV has been on tour in France

The French ETV Programme, implemented by the two French Verification Bodies LNE and Rescoll, participated in the **Pollutec Fair**, one of the biggest fairs on environment and energy. Rescoll also participated in the **Aeromart Fair**, specialised in the aeronautics industry.



The activities during the Pollutec Fair. Below, Claire Michaud, one of the team members of Rescoll, delivering a presentation on ETV during the Aeromart Fair.



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ETV NEWS at a glance

ETV at FoodTech

The Danish ETV Verification Body, ETA Danmark, was present at the Trade Fair **FOOD TECH** (food and packaging) in Denmark alongside one of the companies that is pursuing an ETV - **JIMCO**. This presented a new opportunity to explore a different market that also has environmental concerns and for interested proposers to discuss with a company that is undergoing an ETV.



Mette Tjener Andersson, the representative of ETA Danmark at their stand in FoodTech



During the Workshop held at Ecomondo, Italy, Pierre Henry, from the European Commission, is interviewed. The full interview can be watched [online](#).

LNE will deliver ETV webinar

The Verification Body LNE is organising a free webinar for all those interested in learning more about the ETV programme. This webinar will be given in French and targets all those who are interested to understand what are the advantages of going through an ETV. The webinar will take place on the 20th of January 2015 at 10:00. The webinar is free of charge but a registration is required.

For more information please consult LNE's dedicated webpage.

www.lne.fr/webinar/ETV/index.asp

ETV will be at Green Ventures

Green Ventures is Germany's largest partnership forum for environmental and energy technology companies. The Polish Verification Bodies IOS-PIB and ITP will both attend this forum and will be available for discussions with any companies interested in learning more about ETV. The forum will take place from 27 to 29 January 2015, in Leipzig, Germany. For more information, please consult the forum's website www.green-ventures.com/ or contact IOS-PIB or ITP Verification Bodies.

ETV will be at TVIP 2015

The Czech Verification Body CEMC will organise the conference **Research and Innovation for practice Week (TVIP 2015)**, focused on waste management, risk management and alternative energy sources. This will be an occasion to hear and discuss about ETV. It will take place in Hustopeče, Czech Republic, from 18 to 20 March 2015. For more information consult their website

<http://www.tretiruka.cz/konference/> or contact CEMC Verification Body.

Clarification of Eligibility

If you would like to do an ETV, there are a few criteria that the technology must comply with, such as being an **innovative environmental technology**, being **ready to market** and presented with **clear and verifiable performance claims**. This is not always easy to assess. Therefore the ETV Technical Working Groups have produced a Document that contains guidelines as to how to better assess these criteria. To access this guidance document and for all other ETV reference documents, please consult the ETV website:

<http://iet.jrc.ec.europa.eu/etv/reference-documents>

ETV at Ecomondo, Italy

The Italian Verification Body Certiquality hosted a workshop on ETV on November 6th in Rimini, Italy. The workshop proved very interesting and a successful way to disseminate the concept of ETV in Italy and in Europe. Presentations are available on Certiquality's website:

www.certiquality.it/06novembre2014

Where to find out MORE?

For further information please consult: <http://iet.jrc.ec.europa.eu/etv>

On questions related to the pilot programme, Verification Bodies or the Stakeholder Forum, please contact us at: ENV-ETV@ec.europa.eu

For technical questions on the work of the Verification Bodies and the process of verification of technologies please contact us at:

JRC-IET-ETV@ec.europa.eu

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ETV

This newsletter was produced for the EU-ETV pilot programme by the Joint Research Centre under the auspices of DG Environment

ETV is active in the UK and in Poland: meet two of the ETV Verification Bodies

NPL: one of the first ETV Verification Bodies in the UK

Achieving UKAS accreditation and acceptance onto the ETV pilot programme in July / August 2013, the Centre for Carbon Measurement at the National Physical Laboratory (NPL) was one of the first Verification Bodies under the ETV scheme in the UK. NPL is the UK's National Measurement Institute and maintains a wide portfolio of internationally visible research programmes that advances measurement science, underpins the SI system and supports a variety of cross-disciplinary technologies. Within that framework, the role of the Centre for Carbon Measurement is to actively develop and promote a broad range of technologies and services in the Energy, Environment and Low Carbon Technology portfolio. NPL therefore offers the ideal platform to verify and validate innovative, environmental technologies which are not covered by existing standards. There are three technology areas currently included in the ETV programme, NPL is accredited to verify 'Energy Technologies', including but not limited to: fuel cells; solar energy; energy efficient lighting; Smart infrastructure; and wind and marine technologies. With regard to specific verifications, after an initial slow start, NPL has made significant progress since the start of 2014, with two verifications currently in development; however they have not been without their challenges. A lack of appropriate testing infrastructure has significantly inhibited the advancement of these verifications, as testing is both time-consuming and expensive. Furthermore, the proposers of these technologies have struggled to identify



NPL's promotional ETV [video](#)

the specific parameters needed for verification, and the environmental benefit of their technology. Most apparent, however, is the cost of a complete verification and third party testing, which can be significant for an SME or start-up company. In recognition of this, NPL is able to provide bespoke technical support to eligible SMEs through its Technology Innovation Fund (TIF). This subsidised support can reduce NPL's cost to the SME by up to 50% and to date, has helped over 250 companies avoid the barriers normally associated with getting products to market.

As many Verification Bodies would agree, there is still a distinct lack of awareness surrounding the ETV programme. NPL has been involved in a number of promotional activities since the start of the ETV programme at NPL, including joint activities with other UK verification bodies, Defra (the UK government sponsor of ETV), and potential UK regional funding bodies such as Scottish Enterprise. NPL has also produced an animated promotional video on ETV, which provides a brief overview on the eligibility process and how each stage of the verification process works. For those that have not seen the video, it can be accessed via this link:

www.npl.co.uk/carbon-measurement/etv/
For more information, have a look at NPL's website:
<http://www.npl.co.uk/carbon-measurement/etv/> **or get in touch through their helpdesk: etv@npl.co.uk**

ITP: opening the doors for ETV in Poland

ITP-JWTS is the first EU ETV verification body in Poland which operates according to the standards ISO 17020 and to the ETV General Verification Protocol (GVP). Headquartered in Falenty, Poland, with branches in Warsaw and Poznan, ITP conducts scientific research and development in a wide array of natural sciences and technologies. Its role with respect to technology verification is to conduct activities



The team of ITP with the company ASKET during the delivery of the first Verification Statement

involving the evaluation of innovative environmental technologies that can contribute to the efficient use of natural resources and a high level of environmental protection in a number of areas including the use of waste materials and resources or products made from biomass. It also includes energy technologies that produce electricity and heat from renewable energy sources such as from agricultural biomass.

The ITP-JWTS Environmental Technology Verification body cooperates with a team of highly qualified experts, including the Polish Society of Energy and a network of Polish testing bodies.

The head of Verification Body is Ms. Agnieszka Wawrzyniak M.Sc. and the quality manager is Piotr Pajzderski PhD.

For more information, have a look at ITP's website: <http://www.itep.edu.pl/> or get in touch with Ms. Wawrzyniak - a.wawrzyniak@itep.edu.pl



Cover page of the first Verification Statement, emitted by ITP for the Biomasser briquetting machine

USEFUL to KNOW – Co- and joint verifications between ETV Programmes

ETV around the world

ETV programmes exist in several countries in northern America and eastern Asia. They were presented in the ETV Newsletter Issue No.2, where some of their similarities and differences were explored. For technologies that are targeting a global market, it is possible to bring together different ETV programmes around the world in the form of **co- and joint verifications**.

Since markets for environmental technologies are becoming globalised, the proposer benefits from having a technology verified and its results recognised beyond the EU market. One way to achieve this is to have the verification process performed in cooperation between an EU ETV Verification Body and a Verification Body from another ETV programme in the world in particular in the U.S., Canada, Korea, Japan or the Philippines. China is also launching its own ETV pilot programme.

But how does this work?

The first step is to contact an EU Verification Body and discuss with them if a cooperative verification would fit with your project or business case.

The EU ETV Pilot programme provides opportunities for cross-border

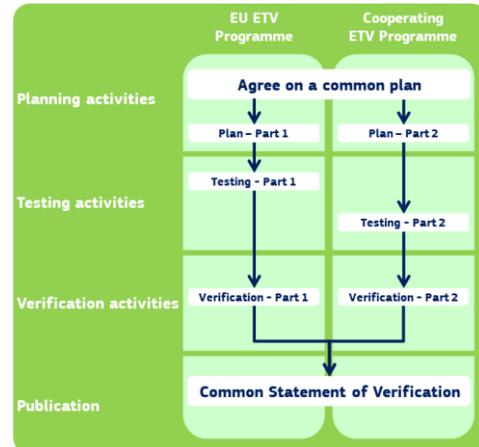
verifications already now. From the technical point of view, this requires the cooperation of one of the Verification Body accredited in the EU (see list on the Newsletter cover page) and of one or more ETV operator(s) acting on behalf of the non-EU programme(s). The EU Verification Body can advise on the choice of the non-EU programme(s) and can take the necessary contacts with the relevant ETV operator(s).

What are the options?

Two different collaboration models exist for cooperative ETV verifications:

- **the joint verification**, where the cooperating ETV operators interact at each step of the ETV process, validating jointly the major steps and sharing the assessment work;
- **the co-verification**, where one ETV operator is in charge of the ETV process, whose results are accepted by the other operators upon conditions agreed in advance.

In both models, the end result is a **Verification Report** and a **Statement of Verification** signed by the cooperating ETV operators and accepted and published by the cooperating ETV programmes. It is important that the initial planning, conditions and financial aspects are clarified by the cooperating programmes and agreed by the



technology proposer at the beginning of the process.

The following diagram illustrates how the cooperation between two operators of different ETV programmes may look like, following the *joint verification* model.

Would I be the first one?

Until now, 5 technologies have been verified cooperatively by different ETV programmes and 4 others are undergoing a cooperative verification process. One of the first examples of a cooperatively verified technology is the **Lumistox**, a technology measuring toxicity in wastewater. It was developed by the German manufacturer HACH-LANGE and verified by the Danish DANETV, the US EPA ETV and the ETV Canada programmes in the context of the EU research project AdvanceETV in 2009. The joint verification was decided after the technology purchaser requested the manufacturer to undergo the US EPA ETV process. The results helped the company secure sells on the Asian markets as well. They are published on the websites of DANETV (<http://www.etv-denmark.com/>) and the US EPA (<http://www.epa.gov/etv/index.html>).

KEY BENEFITS OF A VERIFICATION PERFORMED IN COOPERATION BETWEEN TWO OR MORE ETV PROGRAMMES

for a technology proposer:

- obtaining a Statement of Verification that is recognised under more than one verification programme
- minimizing the verification costs when aiming at more markets at the same time

for a technology client:

- gaining access to technologies verified under programmes he may not be familiar with while still having the benefit of relying on a performance proof originating from a familiar verification programme vouching for the quality and validity