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Leapfrogging  
ahead with the EU Environmental  
Technology  
Verification  
pilot programme  
**ETV**





## TAKING NEW EUROPEAN ENVIRONMENTAL TECHNOLOGIES TO THE NEXT LEVEL

Innovation is the driving force of European economy. Although new environmental technologies can make a significant difference in terms of resource and cost savings, they often never reach the market simply because they are new and untried.

ETV aims to change this by providing verified evidence that innovative environmental technologies are credible, scientifically sound and perform as they claim. The end product is an **ETV Statement of Verification**, a document that ascertains a technology's performance and differentiates it from that of competitors.

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### MAKING A DIFFERENCE FOR EUROPEAN INNOVATORS

An ETV Statement of Verification is an independent third party validation of the performance of a new technology. This means reduced risks for customers and for investment. Users will be able to compare technologies and identify those that meet their needs.

ETV is often confused with **certification or labelling**. Under ETV, evaluation is not limited by any pre-defined technical specifications or standards. Each technology is assessed against its own characteristics, based on performance claims, with tests defined on a case-by-case basis.

ETV will significantly benefit European innovators yet it is still largely unknown among technology developers. It is a remarkable tool for answering questions like : does this technology deliver what it promises? Does it deliver the resource savings it claims? ETV can also integrate the technical requirements of purchasers' specifications, for example in public tendering. The resulting Statement of Verification may be accepted as evidence in public procurement procedures.

### BACTERMINATOR® DENTAL FROM ADEPT WATER TECHNOLOGIES

BacTerminator®Dental is currently being verified by the ETV. There is no statement yet, but the technology is on track to revolutionize the treatment of water for dental care.

By using chlorine from electrolysis, BacTerminator®Dental disinfects water going into the water line of a dental chair and ensures that no biofilm is formed. This in turn provides safer conditions for patients and dental professionals.

The verification is performed as a joint verification between the EU ETV and the Chinese ETV programmes.

#### **For further information**

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## ETV OFFERS CLEAR BENEFITS TO DEVELOPERS. HOW?

- ETV provides products visibility and legitimacy on markets
- ETV develops references in a market where no standard currently exist, especially for innovative products
- ETV adds credibility to SMEs developing novel technologies
- ETV can integrate customers' specifications and reduce risks for investors
- Clients prefer a European verification as opposed to a specific country verification

## MARKET POWER!

ETV can help innovative technologies penetrate new markets by showing how the performance of a new technology compares with existing competitors on the market.



### Other concrete benefits include:

- Reaching international customers with performance claims tailor-made to the needs of targeted markets;
- Validating innovative features that make a technology unique, which goes well beyond compliance with regulations or standards;
- Giving information on the performance of new technologies arriving on the market and differentiating them from competitors;
- Persuading investors of the potential of new activities or investments;
- Making it easier to get a permit or the approval of public authorities for new installations;
- Increasing the market-share and facilitating access to new national or international markets for the technology.



## **DALL BIOMASS FURNACE: ETV VERIFIED AND READY FOR MARKET**

The Dall Energy Multipurpose Biomass Furnace has a new combustion design which combines in one unit the updraft gasification technology with a gas combustion section above the gasifier.

The main benefit of this new technology is reduced concentrations of carbon monoxide (CO) and Nitrogen oxides (NOx) and stable concentrations of these emissions in the whole operation area, for loads varying from 20% to 100% of full load.

Tests and verification of the Dall Biomass Furnace have been performed according to the DANETV Quality Manual. For the full statement of DANETV verification including the test and verification results, see:  
[http://www.etv-denmark.com/air/air\\_cleaning.html](http://www.etv-denmark.com/air/air_cleaning.html)

### **For further information**

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## **WHAT KIND OF TECHNOLOGIES IS ELIGIBLE?**

ETV has been launched as a pilot programme; during the first three years of the pilot phase about 100 technologies will be verified under the scheme.

All ready-for-market technologies which show a potential for innovation and environmental benefits can be proposed under ETV. Initially the scheme will cover the following technology areas:

- ▶ **Water treatment and monitoring** (ex. monitoring water quality, treatment of drinking water and waste water);
- ▶ **Materials, waste and resources** (ex. separation and sorting of solid waste, recycling of materials, end-of-life products and chemicals, biomass-based products);
- ▶ **Energy technologies** (ex. renewable energy, energy from waste, energy efficiency technologies).



## **HOW MUCH DOES IT COST TO HAVE A TECHNOLOGY VERIFIED UNDER ETV?**

The cost of technology verification varies considerably depending on the complexity of the technology. An indicative range of €10,000 to 40,000 (without tests) can be expected in most cases.

The European Union supports the ETV Pilot programme through coordination costs and grants to Verification Bodies, with the aim to limit the average final contribution of participating SMEs to around €20,000.

## HOW DO I FIND OUT MORE?

Technology companies interested to have an environmental technology verified under **ETV** should contact an accredited Verification Body.

A step-by-step “Guide for Proposers” is also available on the ETV website:  
<http://iet.jrc.ec.europa.eu/etv/technology-proposers>

Stakeholders and the media interested in ETV are welcome to contact Verification Bodies, the European Commission or contact persons in Member States (see below).

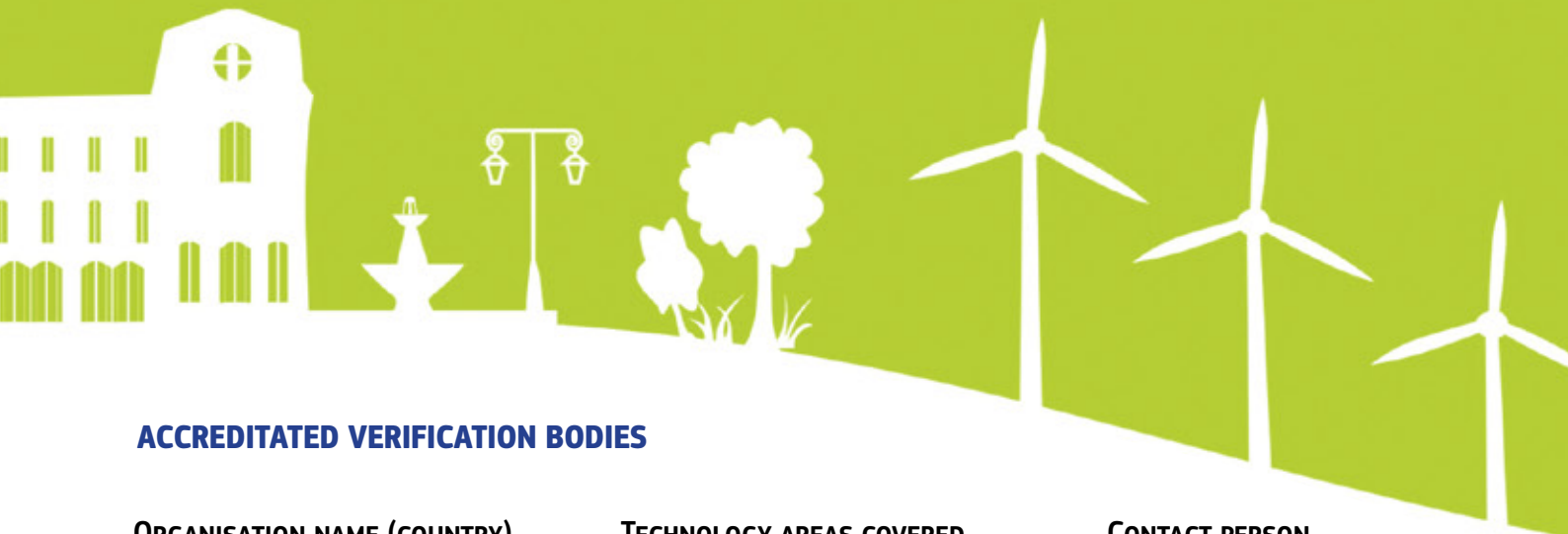
## HOW DOES ETV WORK?

ETV is implemented by qualified organisations called **Verification Bodies**. These bodies are specifically accredited to perform verification activities for a given area of technology.

Ten organisations are accredited in the Czech Republic, Denmark, Finland, France, Italy, Poland and the United Kingdom and are active throughout the EU. Other organisations are in the process of being accredited.

67 technologies have already been verified through EU projects prior to the ETV pilot programme, ranging from energy-saving devices to water quality monitoring kits.





## ACCREDITED VERIFICATION BODIES

ORGANISATION NAME (COUNTRY)	TECHNOLOGY AREAS COVERED	CONTACT PERSON
<b>BRE Global</b> (United Kingdom)	Energy Technologies Materials, Waste & Resources	<i>John Holden</i> holdenjg@bre.co.uk
<b>CEMC</b> (Czech Republic)	Materials, Waste & Resources	<i>Jiří Študent</i> student@cemc.cz
<b>Certiquality</b> (Italy)	Water Treatment & Monitoring Energy Technologies Materials, Waste & Resources	<i>Alessandro Ficarazzo</i> a.ficarazzo@certiquality.it
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<b>IOS-PIB</b> (Poland)	Energy Technologies Materials, Waste & Resources	<i>Bartosz Malowaniec</i> etv@ios.edu.pl
<b>ITP Branch Poznan</b> (Poland)	Energy Technologies Materials, Waste & Resources	<i>Agnieszka Wawrzyniak</i> a.wawrzyniak@itep.edu.pl
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<b>NPL</b> (United Kingdom)	Energy Technologies	<i>Sue Oackley</i> etv@npl.co.uk
<b>RESCOLL</b> (France)	Materials, Waste & Resources	<i>Claire Michaud</i> etv@rescoll.eu
<b>RINA</b> (Italy)	Water Treatment & Monitoring Energy Technologies Materials, Waste & Resources	<i>Laura Severino</i> laura.severino@rina.org <i>Felice Alfieri</i> felice.alfieri@rina.org
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## CONTACT POINTS IN THE ETV STEERING GROUP

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### **United Kingdom**

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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](mailto:ENV-ETV@ec.europa.eu)

