



DHI SOLUTION

# ENVIRONMENTAL TECHNOLOGY VERIFICATION (ETV)

European quality stamp • DHI DANETV test centre

The European Union (EU) has launched a program for verification of new environmental technologies: the EU ETV — Environmental Technology Verification Pilot Programme. The programme provides reliable information to technology owners across Europe about the effects of their environmental technologies. EU ETV facilitates the entry into the market for new, promising environmental technologies by reducing uncertainty among sceptical buyers.

## WHAT IS ETV ?

The current growth in environmental technologies has resulted in a need from users and investors for an independent assessment of the performance of their technologies.

In simple terms, Environmental Technology Verification (ETV) is testing, verifying and documenting the performance of an environmental technology. The aim of ETV is to validate that the technology suits its purpose and performs as claimed. This means that your environmental technology can obtain a quality stamp from an independent verification unit.

ETV considers three main aspects:

- the performance parameters derived from the claims of the manufacturers
- the requirements of environmental regulations
- the need of the customers



*Logo for EU's ETV pilot programme. As of December 2011, participating countries are Belgium, the Czech Republic, Denmark, Finland, France, Poland and the United Kingdom*

## THE ETV PROCESS IN A NUTSHELL

Companies interested in a product verification may contact a representative from a verification body — DS Certification in Denmark — who will be able to explain the verification process. After the initial eligibility check and proposal phase, the verification body defines verification parameters, assesses available data and decides whether further tests are needed. If further testing is necessary, we can assist with the elaboration of a test plan and carry out the testing for you, including reporting.

## SUMMARY

### CLIENT

Producers and vendors of innovative environmental technologies

### CHALLENGE

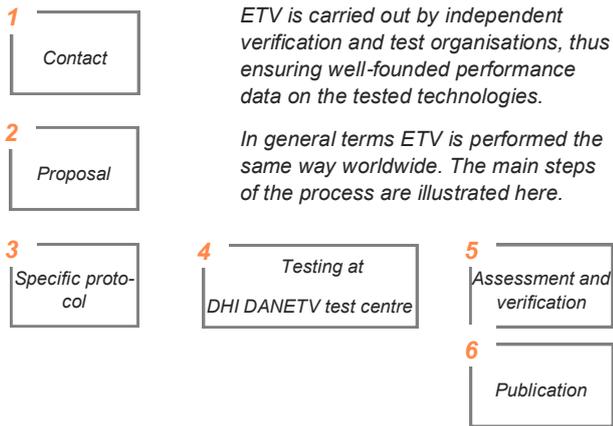
- The technology behind a product is new and not widely recognised among potential buyers
- Buyers are looking for independent control of technologies
- The technology is to be sold in a new market

### SOLUTION

A quality stamp in the form of a verification (including detailed testing), of an environmental technology from a verification unit under the EU ETV pilot program

### VALUE

- Issue and publication of a verification statement, summarising the efficiency of the technology
- Thorough testing of the technology
- Effective quality assurance during testing and verification
- Possibility of a joint and co-verification between two or more ETV programmes
- No pass/fail criteria (no requirement for minimum effect)
- Contribution by the manufacturer to determine how performance/efficiency is measured



**HOW CAN THE DHI DANETV TEST CENTRE ASSIST YOU?**

The DHI DANETV Test Centre is established in compliance with the EU ETV pilot programme and is one of five independent test organisations under the Danish Centre for Verification of Climate and Environmental Technologies — DANETV. The DHI DANETV test centre carries out testing for environmental technology products within the following technology areas (\*technology area not yet part of EU ETV):

- Water monitoring and treatment technologies
- Materials, waste and resources
- Cleaner production and processes\*
- Soil and groundwater monitoring and treatment technologies\*



Verification testing on site

**TESTING AT THE DHI DANETV TEST CENTRE**

The average verification has a duration of six months, and the testing is the most time consuming part of the entire verification process. We carry out tests of environmental technologies and have our own testing facilities where we can set up lab- and pilot-scale tests. Through cooperation with relevant business partners, we also have access to external test facilities. Our laboratory facilities are equipped with a variety of measurement devices and we have mobile measuring units that allow us to conduct measurements on-site/in the field.

If you wish to perform in-house testing, we can assist you with planning (for example, drafting of test plans, reviewing plans you have elaborated) and testing performance.

**VERIFICATION**

Once testing has been conducted and we have summarised the results in a test report, the verification body will carry out a final assessment of the data with respect to the defined performance parameters.

**STATEMENT OF VERIFICATION**

At the end of the verification process, a Statement of Verification is issued, registered and published on the ETV webpage.



You can use the statement as evidence that the claims you have made about the performance of your technology are both credible and scientifically sound. With this proof of performance, you can expect to have an easier market access and/or a larger market share for your technology.

*DANETV relies on a partnership between five companies: DHI, AgroTech, DELTA, FORCE Technology and Danish Technological Institute. DANETV cooperates with DS Certification, the accredited verification body in Denmark*

**WORLDWIDE ETV**

DANETV carries out verification of environmental technologies for:

- agricultural products
- water treatment and monitoring
- air cleaning and monitoring
- energy efficiency and production
- cleaner production and processes
- soil and groundwater monitoring and treatment
- materials, waste and resources

Several ETV programmes are operating around the world, each with its own specific testing and verification procedure. This lack of uniformity implies that national or regional ETV does not automatically translate into global ETV. If you are interested in joint or co-verification of your technology (for instance, with a Northern American or an Asian ETV programme) to ensure a wider acceptance of your verification, we can inform you of the benefits of joint or co-verification and guide you on the choice of processes that will best support your technology in relevant markets.

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