



The EU Environmental Test & Verification (ETV) Pilot Programme

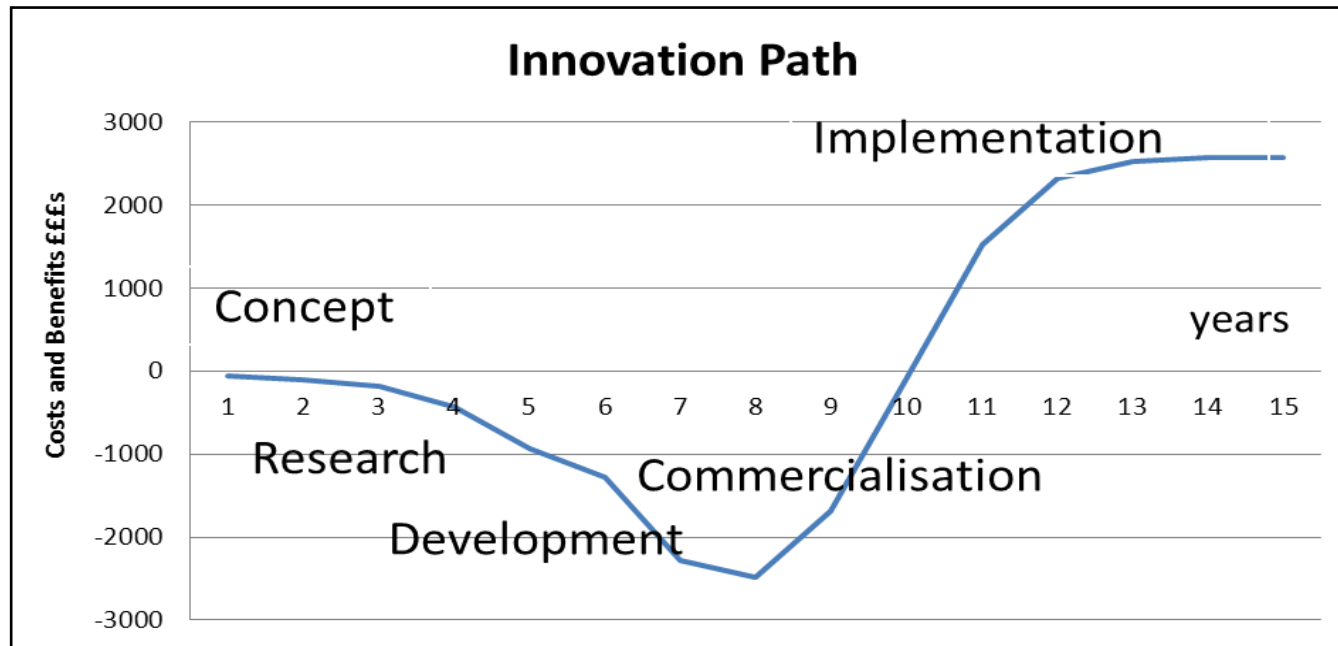


Jane Turrell WRc

- Overview
 - Why do we need ETV
 - EU-ETV pilot
 - The process
 - WRc and ETV
 - Support and success stories

Why do we need ETV?

Many clever new ideas are not taken up because they are new and untried



- European Commission initiative under the Eco-Innovation Action Plan
- New programme to help ‘innovative’ environmental technology companies enter the market using independent proof of verifiable performance parameters
- Environmental technology defined as “.....whose use is less environmentally harmful than relevant alternatives”
- Under ETV claims about innovative environmental technologies can be verified by qualified third parties called ‘Verification Bodies’
- ETV Verification is concerned with the technical design and performance of a technology, not with the production series of industrial products

How is ETV different?

- ETV is about technology developer performance claims **not** compliance with pre-defined criteria or standards
- The end result is not a label on a product but a detailed 'Statement of Verification' for use in vendor / client discussions
- The 'Statement of Verification' is evidence that the claims made about the innovation are both credible and scientifically sound



"Impressive résumé. We'll verify it through Facebook, Twitter and Tumblr and get back to you."

The EU Pilot



- EU-ETV mirrors existing schemes in the US (no longer funded by US government), Canada, Japan...
- EU pilot programme is 3 years duration, started April 2013
- The EU has developed a harmonised international framework to promote global recognition for verified 'innovative' technologies
- Countries participating: UK, Belgium, Poland, Czech Republic, Finland, France and Denmark
- Currently 13 VBs, 4 in the UK: WRc, BRE, National Physical Laboratories, and the European Marine Energy Centre (AMEC)



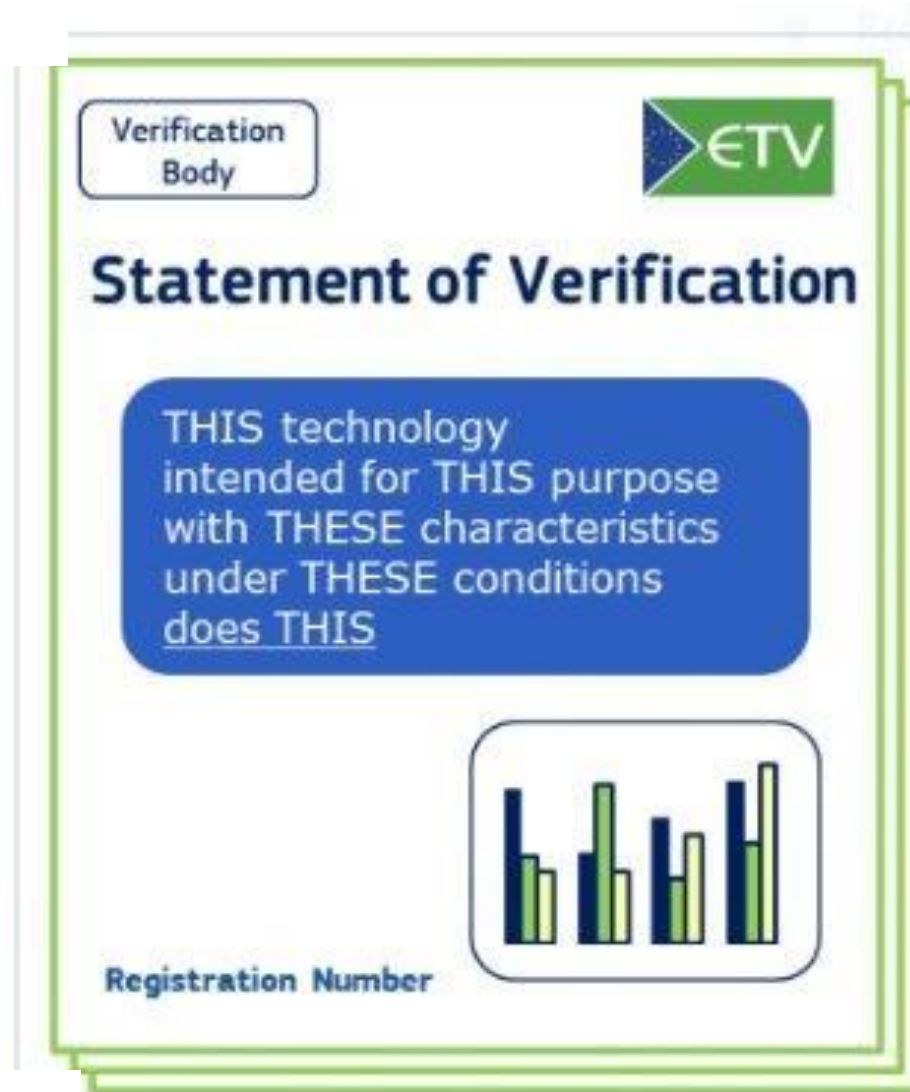
- Facilitate access to the market for innovative products and technologies with a lower environmental impact than those in the market place
- Provide support to SME developed technology
- Independent verification of performance claim(s) will facilitate acceptance of the innovative product/technology by the purchaser

Verification



- The EU pilot is voluntary
- Technologies are submitted for verification to an accredited verification body by interested technology developers
- Based on the results of the Quick Scan evaluation and proposal from the verification body the process will move on to development of a Specific Verification Protocol
- After testing, if required, a verification report will be developed
- The publication of the VR on the EU web-site marks the end point of the verification processand hopefully the beginning of a success story

The Verification Report



Area of current application



- Scheme considers three product areas:
 - Water treatment and monitoring
 - Materials, waste and resources
 - Energy technologies
- Since May 2013 WRc have been a UKAS accredited VB
- WRc have won EU funding to support our VB role
- This funding provides a subsidy to UK manufactures wanting to proceed with ETV verification
- Fees will be capped at £10K for the first 10 technologies in each product area
- The costs of testing sits outside of this funding but WRc can provide in-house support as an independent test house

- Within the scope of the three technology areas
- Is it an innovative environmental technology?
- Is it ready for/at market?
- Are the performance characteristics not fully covered by existing regulations/standards?
- Presents sufficient level of technological innovation when compared with relevant alternatives
- Shows potential to meet user needs and perform in line with legal requirements
- Will an independent validation of environmental performance help build purchaser's trust and thus accelerate market penetration?

Benefits



- Third party approval enabling suppliers to enter new markets and promote their technology
- Users of technology are assured that it has been independently tested, and performance claims made can be trusted
- Evidence for regulators to trust new innovative technologies where historically the regulators may have been wary of new methods
- Avoid the need for repeat trialling to prove performance with each new client
- Help technologies gain entry to the market and market share



How much does it cost?

- Costs can vary considerably depending on the technology and the quality of existing data
- The ETV pilot programme is supported by EU budget and by participating countries, with the aim of limiting the average final contribution of participating small and medium-size enterprises
- Average cost of verification in other EU member states circa €25-30K



The EU pipeline

- Figures as of 5th June 2015

61 Application Requests

49 Initiated Verifications

4 Verified Technologies

- EU studies relate to biomass briquettes, a compost from an anaerobic digester and a storm-water flow regulator
- WRc have discussed ETV with over 100 companies, processed 44 Qs, 4 Proposals and are currently completing the first verification report

- Advanced plasma gasification
- food waste solubilisation for discharge to sewer
- Production of fertiliser from sewage treatment
- Fat capture from food retailing industry
- Containerised pyrolysis of clinical wastes
- Production of glass insulating materials
- Advanced monitoring of AD to increase Biogas production

- Too early to quantify the benefits to SMEs from ETV
- Benefits of ETV are recognised in Scotland
 - The Scottish Hydro Nation Water Innovation Service was set up to grow the value of Scotland's water resources
 - Chairperson Nicola Sturgeon has stated in their first Annual Conference in May 2015 that Hydro Nation will:



*“aid the competitiveness of Scottish businesses by linking them to the Environmental Technology Verification (ETV) process supported by the Scottish Environment Protection Agency, which is **proving to deliver significant competitive advantage to participating businesses in raising the profile and credibility of their technologies**”*

- SEPA linked with Scottish Enterprise have stated that they intend to provide support to help Scottish companies get ETV