



VERIFIGLOBAL NEWSLETTER

Creating value through informed decisions and sustainable results

Collaboration on Eco-Innovation



Industries continue to be challenged by the need to incorporate eco-innovations in their businesses. The drivers for innovation are often perceived differently by various end-users and their suppliers, which points to the importance of value-based approaches when addressing eco-innovation drivers such as regulation, market demand and technology deployment. Networks that create value, such as the **VerifiGlobal Alliance**, offer a platform for the development of eco-innovations by aligning the value creation objectives of the key stakeholders.

Why eco-innovation?

Eco-Innovation is the development of new products, processes and services with positive environmental outcomes. Eco-innovation represents an economic opportunity that the World Bank has valued at \$6.4 Trillion. Eco-innovation delivers the goals of sustainable development through commercially viable approaches that:

- Enable new business opportunities and sustainable, equitable growth
- Achieve more efficient and responsible use of natural resources
- Address climate change concerns and low carbon economy opportunities
- Enhance societal, economic and technological resilience to environmental pressures
- Reduce impacts on the environment.

The processes for eco-innovation are not exclusively focused on the development phase of a technology. An integral part of sustainable business is the potential for value creation through the technology commercialization process. In its June 2018 Newsletter, VerifiGlobal highlighted the importance of international trade as an engine for development and sustained economic growth, recognizing that sustainable development and international trade go hand-in-hand. Both depend on a transparent, equitable trading system based on standards to assess, evaluate and verify technology and product performance. Cooperative actions on technology research, development and eco-innovation are needed to assess innovative technologies and inform policies and decisions on sustainable development, which in turn facilitates the financing and dissemination of eco-innovations and related expertise.

SEPTEMBER 2018

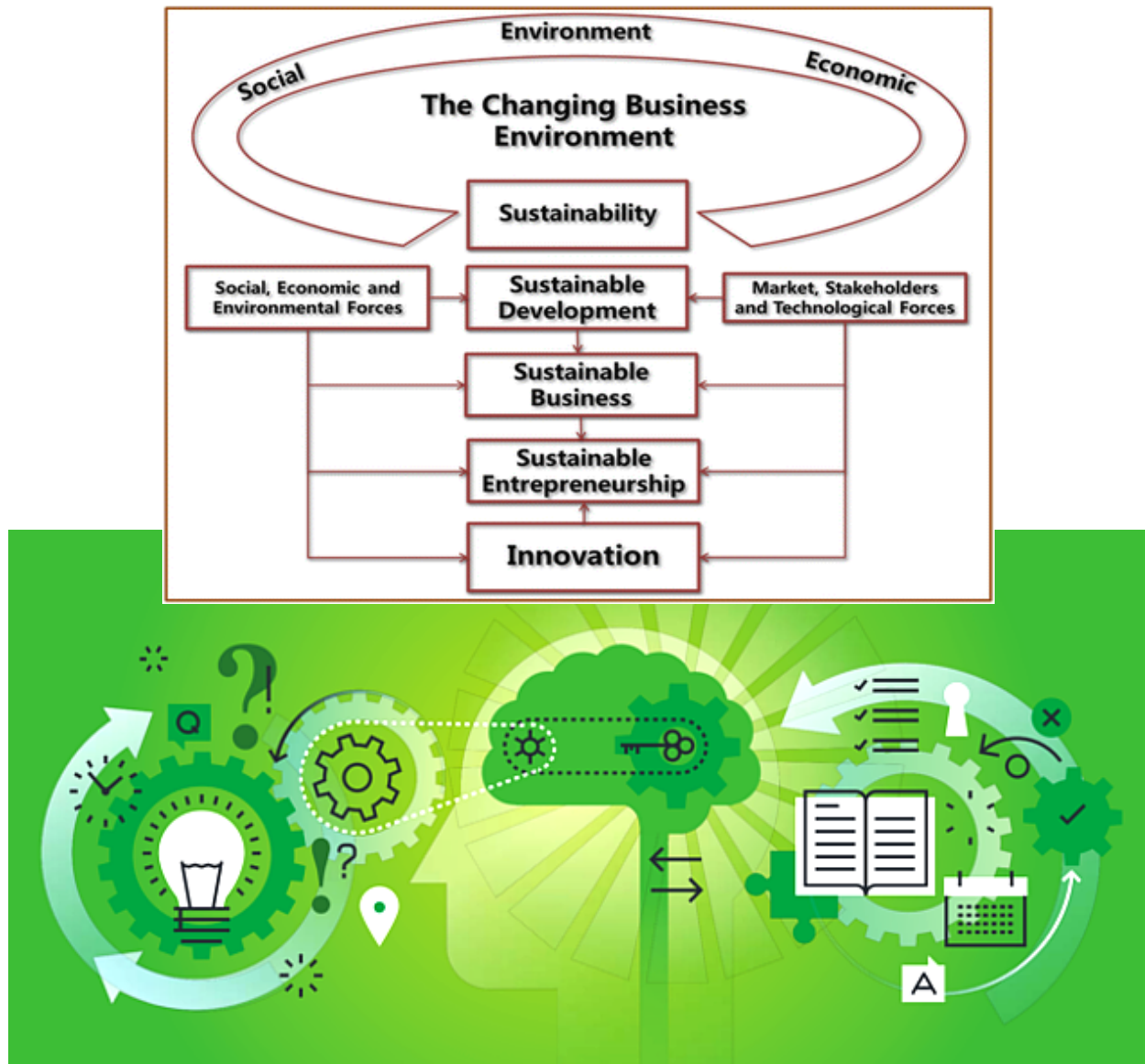
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As suggested by the **World Business Council on Sustainable Development (WBCSD)** and illustrated below, eco-innovation is an essential requirement for building and transforming our communities, ensuring ecosystem integrity, and managing change in a way that supports and strengthens sustainable development.



Building on this narrative, VerifiGlobal Alliance members are seeking collaboration on innovative technology demonstration projects and initiatives in the following areas:

- Resource recovery and utilization technologies (e.g., carbon sequestration and utilization technologies)
- Power generation, energy storage and demand management systems
- Climate change adaptation technologies (e.g., low impact development, stormwater management technologies)
- Advanced water treatment technologies (e.g., for treatment of pharmaceutical and personal care products)
- Real-time monitoring and control technologies for targeted applications (e.g., catastrophic events, contaminated sites, water quality, air quality, etc)
- Building materials and systems
- Mobility and transportation technologies.

To follow-up, contact VerifiGlobal: www.verifiglobal.com



**CONFERENCE THEME**

Collaborating to Compete: Clusters in Action

CONFERENCE SUB-THEMES

Regional economic development and inclusive prosperity | Mobilizing talent and diversity | Scaling up within a cluster ecosystem | Designing collaborative networks for innovation

TCI 2018 is the leading global clusters event for government, business, and academic leaders, to make unexpected connections for economic growth and shared prosperity. It will take place over 3 days (October 16-18, 2018) in Toronto, Ontario, Canada.

400 delegates are expected to attend TCI 2018, including:

- ✓ Government leaders and policy makers from economic development and international trade ministries across every level of government
- ✓ Business leaders and executives who see themselves as leaders in the development of a particular cluster in a particular sector
- ✓ Cluster practitioners, managers, consultants and industry associations who can provide advice to clients on how to grow a cluster.
- ✓ Academics who study networks, clusters, economic development, geography, and political science.

To register for TCI 2018, go to:
<https://www.tci2018.org/registration-form/>

The event includes a cluster immersion experience that will take place at the Kortright Centre in conjunction with TRCA-Sustainable Technologies Evaluation, a VerifiGlobal Alliance member. See: <https://www.tci2018.org/low-carbon-buildings>

With more high-rise building construction than in any other city in North America and the highest percentage of new buildings being built to green standards in Canada, Toronto's booming construction sector is a global leader in low-carbon buildings. Toronto is home to world-renowned sustainable architectural firms, green building developers, and leading-edge green building technology suppliers. The strength of Toronto's vibrant low-carbon building cluster is supportive local government programs and policies, close collaboration with Toronto's universities, colleges, and research institutions, and a construction industry that sees the competitive advantage of building sustainably.

This cluster immersion experience will visit leading cluster centres that incubate innovation and test and pilot new solutions that help Toronto build green. It will explore how local government policies help establish the framework for industry growth, and how solid working relations between the academic sector and industry can drive innovation and global success.

For more information on TCI 2018, contact:
Dorinda So, TCI 2018 Conference Director at: d.so@competeprosper.ca

SUSTAINABLE INNOVATION 2019

ROAD TO 2030: SUSTAINABILITY, BUSINESS MODELS, INNOVATION AND DESIGN

By 2030, the world will be a different place, reacting and responding to a number of mega trends. Tackling sustainability – particularly climate change, water scarcity and the circular economy – will be increasingly important in the design and development of products, services and technologies.

How these concerns feed through to customer and societal requirements for products, services and technologies over the next decade will be crucial presenting increasing opportunities for eco-innovative products, services, technologies, as well as new emerging business models for pro-active entrepreneurs, innovators and designers.

Sustainable Innovation 2019 will provide a platform to examine future visions of how sustainability will impact on business models, products, services, technologies, innovation and design in 2030.

Sustainable Innovation 2019, which takes place 4-5 March 2019, will include invited and refereed papers from academics, consultants, entrepreneurs, technology providers, designers, and innovation and sustainability directors. The international conference will create a unique space for learning, networking and thinking, with participants from large companies, SMEs and start-ups, as well as academia, government and non-governmental organisations.



For more information about Sustainable Innovation 2019 contact:
Professor Martin Charter, Director, Centre for Sustainable Design
 University for the Creative Arts, Epsom, Surrey KT18 5BE United Kingdom
 Tel: + 44 (0) 1252 892772 Email: Website: cfsd.org.uk

Asia-Europe Initiative on Global Recognition of ETV

As markets for environmental technologies become globalized, it is anticipated that international recognition of environmental technology verification (ETV) results could substantially unlock export market opportunities for innovative solutions. Although the ISO 14034 technical standard represents a milestone towards international recognition of ETV procedures, verification statements are not automatically recognized across international markets. In response to this challenge, the Asia-Europe Meeting (ASEM) political dialogue forum is taking steps toward building international recognition of ETV in Asia and Europe.

This effort is being facilitated by the Korean ASEM SME Eco-Innovation Center (ASEIC), which serves as a bridge between Asia and Europe in enabling SME green competitiveness programs in ASEM member countries. In addition to the Republic of South Korea and Europe, other countries involved are Cambodia, Indonesia, Japan, Laos, Malaysia, the Philippines, and Vietnam.

Izabela Ratman-Kłosińska of IETU, Poland is actively participating in this dialogue as an expert on the global outlook for ETV recognition based on the ISO 14034 standard.

For more information, contact **Izabela Ratman-Kłosińska, IETU, Poland**
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US EPA Advanced Septic System Nitrogen Sensor Challenge - Update

Water quality in coastal and freshwater systems

High nitrate levels discharging into coastal and freshwater systems create water quality problems, leading to fish kills, harmful algal blooms, hypoxia, wetlands destruction, habitat loss and unhealthy aquatic conditions. These nitrate discharges are caused by stormwater and fertilizer runoff, groundwater contamination, atmospheric nitrogen deposition, sewage treatment plant discharges, and poorly treated septic system waste.

Real-time monitoring technologies are needed to better identify and address these problems, leading to the implementation of potential solutions that can prevent, control and remediate contaminated conditions.

Monitoring the performance of advanced nitrogen removal septic systems

Advanced onsite technologies that can remove 50% or more nitrogen from residential wastewater are now available and in use. However, there remains a need for commercially available nitrogen sensors that can work in conjunction with advanced nitrogen removal septic systems.

It is envisaged that real-time performance monitoring of nitrogen removal systems will help demonstrate the long-term effectiveness of these advanced systems in reducing nitrogen discharges and improving water quality. In addition, as septic system monitoring technologies continue to evolve and become more affordable, more reliable information will become available to septic system designers, regulators, installers and service providers to control and optimize these advanced systems. This

Development of a commercially viable nitrogen sensor for advanced nitrogen removal septic systems

The US EPA Advanced Septic System Nitrogen Sensor Challenge (ASSNSC) project involves the development of prototype nitrogen sensors that will be tested, evaluated and, among those that are successful, deployed in 200 residential advanced septic systems.

EPA selected Battelle Memorial Institute (Battelle) to support Phase II: Prototype Testing and the development of a Test/Quality Assurance Plan (T/QAP) and Verification Plan, and to oversee the testing of the sensors. The T/QAP is based on the International Organization for Standardization Environmental Technology Verification (ETV) Standard - ISO 14034. Funding for the testing program is from the US EPA Office of Research and Development and the Office of Water/Wastewater Management.

Sensor testing will be completed in 2018-19 at the Massachusetts Alternative Septic System Test Center (MASSTC), a National Sanitation Foundation (NSF) certified test facility in Barnstable, Massachusetts. Developers are invited to participate in the two one-month no-risk tests offered in October 2018 and January 2019. Each one-month test will include the one-week screening test during the first 7 days. Developers whose sensors meet basic performance goals during the first seven days will be invited to participate in the extensive 6-month field performance test in 2019.

Battelle will verify the results of the field performance tests based on the VerifiGlobal Performance Verification Protocol and the requirements of the ISO 14034 ETV standard. EPA will award ISO ETV verification reports and statements for sensors that complete the six-month field testing and meet the



BATTELLE

For more information on the EPA Advanced Septic System Nitrogen Sensor Challenge go to:
<http://www.verifiglobal.com/en/>

Or email Amy Dindal at:
sensorchallenge@battelle.org

WORLD WATER-TECH NORTH AMERICA

Toronto, October, 24-25, 2018

PART OF:

onwin

ONTARIO
WATER
INNOVATION
WEEK

OCTOBER 22-26 2018
TORONTO

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JOIN US IN TORONTO!

World Water-Tech, held annually in London and Toronto, is widely recognized as a must-attend event for investors, start-ups, technology developers and engineers.

World Water-Tech North America is where US and Canadian water utilities come to find solutions to the challenges of digitization, resource recovery and infrastructure finance.

The summit is a unique opportunity for early to mid-stage water-tech companies to present their technologies and business proposals to investors, water leaders and technology integrators. Presenting during the Technology Showcase sessions has been a launch-pad for future growth of some of the most exciting start-ups in the sector.

World Water-Tech 2018 in Toronto will include a new “**Start-Up TechHub**”, which will provide a dedicated meeting point in the networking area for early-stage companies. As key innovators in the water-tech sector, companies will have an opportunity to generate new connections among the investment and global water community. The summit attracts 250+ regional, national and international water companies and investors, including those listed below.



For more information and to register, contact: <https://worldwatertechnorthamerica.com>



Mads Leth of VCS Denmark to present at World Water Tech North America Toronto October 24-25, 2018.

World Water Tech North America (WWT-NA) takes place in Toronto October 24-25, 2018. One of the speakers will be Mads Leth, representing the third largest water/wastewater utility in Denmark, VCS Denmark (VandCenter Syd Denmark).

VCS Denmark is widely considered to be among the most forward-thinking, innovative and technologically advanced water utilities in the world. The 185-employee company provides services to the City of Odense and is active internationally, through its subsidiary, DanAqua. VCS also participates a collaborative initiative, "Future Water City". See: <http://futurewatercity.com>

Mads will be speaking at WWT-NA on the topic **"Fostering Innovation: Accelerating Adoption and Reducing Risk for Water Utilities"**.

Rethink Events, the organizer of WWT-NA, has posted an interview with Mads, which explores the biggest challenges faced by VCS Denmark and other utilities and how the culture at VCS Denmark has catalyzed innovation.

Mads points out the importance for the water sector to adopt a more sustainable business model embracing the 17 United Nations Sustainable Goals, noting that future challenges will require collaboration with other partners from within and outside the water sector.

Examples of VCS collaborations with universities and technology solution providers are also highlighted in the interview.

To find out more about VCS Denmark, go to: <http://www.vcsdenmark.com>

To read the full interview with Mads Leth, go to:
<https://worldwatertechnorthamerica.com/interview-with-mads-leth-vcs-denmark/>

rethink . 

**WORLD WATER-TECH
NORTH AMERICA**
Toronto, October, 24-25, 2018


VCS Denmark

StormCon 2018 - Denver, Colorado

Highlights provided by Good Harbour Laboratories (GHL)

The stormwater treatment equipment industry remains very active in the verification space. At the industry's largest annual show, StormCon 2018 in Denver, a number of trends emerged that suggest this activity will grow in future:

Advanced pollutant removal

While the focus remains on removing sediment and any sediment bound pollutants, there is on-going concern about removing non-sediment bound pollutants. Those pollutants currently receiving the most attention are phosphorous, heavy metals and bacteria. The primary barrier is that there are no inexpensive removal technologies. The problem is made worse by the fact that partitioning of these contaminants is dependent on water quality so conducting realistic lab studies is a challenge. Field studies are an option but they are relatively slow and expensive. Should viable technologies emerge, they will certainly be candidates for verification.

Funding

There has been a significant amount of funding made available for infrastructure in recent years but it still falls well short of the amount of money needed. Stormwater does not tend to get the same attention as drinking water and wastewater, so funding remains a challenge. In some cases, while money for capital equipment is available, qualified personnel human resources are often scarce. This creates an opportunity for VerifiGlobal Alliance members to use verification as a way of raising the profile of the industry.

Green Infrastructure

Green infrastructure, also referred to as low impact development (LID), is a growing trend, with both real and perceived advantages. Real advantages included better aesthetics than manufactured treatment devices (MTDs) and the fact they are often designed to treat quantity as well as quality. The perceived advantage is that "green" is better than "gray". The hurdle faced by green infrastructure is a lack of quality performance data that hinders attempts at optimizing design or predicting the outcome of an installation. This points to the need to design tests that yield verifiable data.

Treatment trains

The combination of green and gray infrastructure to provide an entire solution to a specific problem is another key topic. However, there are a multiple hurdles to overcome. First there is the issue of performance data for green infrastructure. Second there is the perception that if a solution is not all green, then it is not green at all. In addition, there is the fact that solution providers for green infrastructure rarely work with manufactured devices and vice versa so there is a lack of experience to rely upon. This represents an opportunity to apply ISO 14034 performance verification of "green/gray" systems.

Note: VerifiGlobal Alliance member Good Harbour Laboratories (GHL) attended and reported on StormCon 2018 in Denver.

**For more information, please contact
Greg Williams of GHL at GWilliams@goodharbourlabs.com**





**Canadian Stormwater Institute Conference, November 26-27, 2018
Calgary, AB | Hyatt Regency Hotel**

The Western Canada Water Environment Association, a Water Environment Federation member association, is aiming to help shape the future of the stormwater industry through its first annual Canadian Stormwater Institute Conference in Calgary, November 26-27, 2018. The conference will explore best-in-class solutions to urban runoff and wet weather issues.

Carol Haddock, Director of Houston Public Works and Jamila Johnson, Infrastructure Policy Manager, Houston Public works will deliver the keynote presentation on the impacts of Hurricane Harvey and subsequent recovery efforts. There will also be a panel discussion on Sustainable Stormwater Management featuring prominent climate change experts, water resource engineers and government representatives.

The technical program and conference registration information can be found on the conference website at: <http://csic.wcwea.org>.



The Water Environment Federation Technical Conference (WEFTEC) takes place in New Orleans, 29 September to 3 October 2018.

WEFTEC will feature a Stormwater Congress with a comprehensive program with 13 specifically tailored technical sessions and workshops. The Stormwater Congress encompasses all pressing aspects of stormwater management in two concurrent sessions, including:

- Climate Resilience and Flooding
- MS4 Strategies and Innovations
- BMP Research and Practices
- Real-Time Control for Stormwater
- Permeable Pavement Performance Monitoring
- Pre-Construction SWPPP Planning

For more information on stormwater management, go to the WEF Stormwater Report at: <http://stormwater.wef.org>

To register for WEFTEC 2018, go to: <https://www.weftec.org>

Waste-to-energy technology in Australia: CertMark International applying ISO 14034 ETV to demonstrate innovative technologies

Australia is exploring innovative ways of generating power, aiming for 100% recycling of all packaging by 2025, while committing to invest in waste-burning incinerators.

Technology to generate electricity from waste has existed since the 1970s and is widely used in Japan, Germany, Scandinavia and the United States. Although a number of large projects are on the drawing board, approximately 30 waste-to-energy projects are currently operational in Australia, mostly small incinerators and co-generation plants.

Given that waste-to-energy plants divert considerable waste from landfill, new environmental technologies are being developed by Australian companies, supported by the Clean Energy Finance Corp (CEFC), a statutory authority established by the Australian Government under the Clean Energy Finance Corporation Act of 2012. CEFC is leading the way in supporting new and innovative technologies for the generation of power through waste conversion.

One notable project is the Phoenix Energy Australia Pty Ltd. Kwinana Waste to Energy facility in Western Australia, which is expected to be the first waste-to-energy facility constructed in Australia. When complete, the facility will divert from landfill sites up to 50% of the residential, post-recycling rubbish collection in the Perth metro area. By combusting this waste stream, the facility will generate enough electricity to power up to 65,000 households and divert hundreds of thousands of tonnes of kerbside rubbish from being buried in landfill, while reducing the associated greenhouse gases associated with landfill operations and enabling far better use of valuable land.



*Concept image of proposed waste energy power generation plant for Melbourne Australia
Source: Sydney Morning Herald*

ISO 14034 is playing a role as the “go to” standard for verifying the environmental performance claims of the new technologies, while providing a platform for their market introduction. Currently CertMark International (CMI) is assisting several innovative companies with technologies directly related with waste-to-energy technology, or associated with the monitoring of waste stockpiles. ETV is being promoted as the most efficient way for innovative technology companies to demonstrate the performance of their technologies.

For more information, contact John Thorpe of CMI International at: john@certmark.org



ISO 14034 is supporting local environmental and sustainability goals through transformational actions and demonstration projects where performance verification and reporting plays an integral role.

Examples include: energy & resource efficiency technologies; flood mitigation & stormwater management technologies; sustainable building & construction technologies; other innovative & emerging technologies.



Accurate, Reliable, Credible

New ISO Work Item on Green Bonds

Green bonds provide financing for projects and initiatives targeting: energy efficiency and renewables; waste minimization and recycling; low-carbon buildings and infrastructure; sustainable agriculture; climate change adaptation; and other environmental priorities.

The **World Bank** referenced the term “green bond” in 2008 when it launched its “Strategic Framework for Development and Climate Change”. Since then, the market for green bonds has grown substantially and, in the absence of a uniform definition of what constitutes a green bond, interested parties are seeking greater clarity on how proceeds are used to fund green investments and environmentally friendly projects. Socially responsible investors are also concerned about “green washing” – where financed projects are mislabeled as “green” or “sustainable” when they may return few, if any, environmental benefits.



In response to these challenges, efforts to harmonize the assessment of green bonds have been proposed, including a new proposed International Organization for Standardization standard, **ISO 14030, Green bonds – Environmental performance of nominated projects and assets**.



ISO 14030 is intended to: harmonize multiple definitions of green bonds; specify requirements for nominating projects and assets for funding; specify eligibility, use of proceeds, and disclosure requirements; and describe assurance options. The new proposed standard is expected to provide three things:

- ✓ Clarification of what constitutes a green bond;
- ✓ A taxonomy of assets and projects that can be financed by green bonds; and
- ✓ Assurance that green bonds issued in conformity with the proposed standard will deliver environmental benefits and help build investor confidence.

Green bonds are a win-win: developers and solution providers obtain financing for environmental projects, and investors make money funding environmentally sound projects and initiatives.

ISO Technical Committee TC207 (Environmental management), Subcommittee SC4 (Environmental performance evaluation), is responsible for this new work item proposal under the guidance of Dr. John Shideler, Climate Services Manager at NSF International. Assuming all progresses well, ISO 14030 could be published in 2019.

For more information, contact: John C. Shideler <john.shideler@futurepast.com>



ISO 14034: Environmental Technology Verification (ETV)

The **ISO 14034** process is an effective way of establishing global credibility of innovative environmentally sound solutions, building market confidence that environmental technology performance claims are valid, credible and supported by high-quality, independent test data.

ISO 14034 Technical Report (TR) 14034

The International Organization for Standardization (ISO) Environmental Technology Verification (ETV) Working Group (ISO/TC207/SC4/WG5) met in Paris in May 2018.

The objective of the meeting was to review and consolidate inputs to the Technical Report (TR) that will accompany the ISO 14034: 2016 ETV standard, which is expected to help verifiers use the ISO 14034 standard.

Considerable progress was made, including:

- Affirmation of the current plan and progress to date on preparation of the ISO 14034 Technical Report (TR);
- Resolution of outstanding differences in the articulation and interpretation of specific sections of the draft ISO 14034 Technical Report (TR)
- Agreement to proceed with a proactive framework for ISO 14034 collaboration, communications and outreach
- Confirmation of an updated TR outline, with required actions and timelines.

The working group will be meeting again at the end of October 2018 in Tokyo, Japan to finalize the Technical Report.

For more information, contact:
Benoit Desforges, ISO-WG5 Convenor
Email: benoit.desforges2@canada.ca

ETV Workshop in Japan

Japan Environmental Management Association for Industry (JEMAI) is organizing an ETV Workshop with MOE in Japan on 02 November 2018, following the ISO/TC207/SC4/WG5 Meeting

The purpose is to share information on ETV and use of the ISO 14034 standard. Discussions will take place on possible co-verification projects as well as mutual recognition of the verified environmental technologies.

Some ISO/TC207/SC4/WG5 members will be invited to present the status of their ETV activities.

To find out more about the Japanese ETV Program, go to:
<https://www.env.go.jp/policy/etv/en/index.html>

To find out more about JEMAI, go to:
<http://www.jemai.or.jp/english/profile/greeting.html>

For more information, contact:
Dr. Kayo Ohno JEMAI Dept. of
Environmental Technologies
E-mail: ohno@jemai.or.jp



VerifiGlobal: Comprehensive performance verification with global market reach

VerifiGlobal Alliance General Assembly: Actions Arising

The VerifiGlobal Alliance General Assembly Meeting took place on 28 June 2018. Thomas Bruun of ETA-Danmark chaired the meeting.

The Report of the Directors reiterated the overall objectives, value proposition and decision-making processes of the VerifiGlobal Alliance, particularly in relation to ISO 14034. It also included a summary review of key VerifiGlobal initiatives undertaken during the 2017-18 timeframe.

The Financial Report emphasized that the continuing viability of the VerifiGlobal Alliance is largely dependent upon revenues from membership fees, plus contributions that can be made resulting from verification contracts and project revenues.

Discussions about VerifiGlobal Alliance membership addressed the current policy for ensuring VerifiGlobal Alliance member conformity with ISO 17020 when conducting ISO 14034 verification. There was also discussion regarding reciprocity and mutual recognition of verification statements across different environmental technology verification (ETV) programs, noting that VerifiGlobal is able to post

verification statements from other programs provided they are reviewed and determined to meet the requirements of ISO 14034 and the VerifiGlobal Performance Verification Protocol (PVP).

A number of suggestions were put forward regarding marketing and strategic positioning of the VerifiGlobal Alliance, noting that the ISO 14034 verification process appears to be of considerable interest to the market. It was agreed that the VerifiGlobal website should include specific reference to relevant performance testing and verification protocols and procedures, where applicable. Discussion also took place regarding the possible links between the VerifiGlobal Alliance and the United Nations Sustainable Development Goals.

Next Meeting - It was agreed that the next VerifiGlobal Alliance General Assembly Meeting will take place in 2019 at a venue to be determined. The suggestion to link the meeting to another event, which may be relevant to independent performance testing and verification, will be explored further with VGA members.

VerifiGlobal Alliance Members

Battelle Columbus, USA

Centre for Advancement of Water and Wastewater Treatment, Canada

CertMark International, Australia

ETA-Danmark, Denmark

Good Harbour Laboratories, Canada

Institute for Ecology of Industrial Areas, Poland

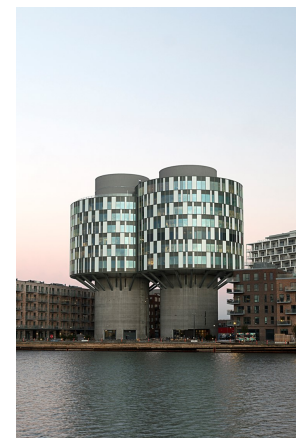
Korea Testing Laboratory, South Korea

RESCOLL, France

Southern Research, USA

TRCA Sustainable Technologies Evaluation, Canada

VTT Expert Services Ltd., Finland



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Why VerifiGlobal and the VerifiGlobal Alliance?

Creating value through informed decisions and sustainable results

