



Delivering a  
better world

2022-2023

## Environmental Webinar Series

Innovative Environmental  
Solutions in Our New World





EHS & Air





## EHS Auditor Competency - A Fresh Look

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This webinar reviewed the qualities of a competent EHS auditor, including qualifications, skills, behaviors, and knowledge. We also looked at the value proposition and training aspects, as well as improvements and measurements of EHS auditor competency. Technology has been further introduced into various aspects of auditing and remote auditing became essential for many organizations over the past two years and likely to stay in some form. This webinar assists EHS directors/managers in the identification, selection, and continuing development of qualified and competent EHS auditors.



## EPCRA TRI Reporting: How to Avoid the Annual Scramble

 [View Recording](#)

Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) requires reporting of releases of toxic chemicals on the EPA Form R or Form A. Commonly referred to as Toxics Release Inventory (TRI) reporting, this annual report requires a detailed calculation to determine which toxic chemicals must be reported and then a second detailed calculation to estimate releases to all environmental media and transfers off site. Since the TRI reports are submitted once each year, many of us are relearning the requirements as we work on the calculations. Depending on the facility, company, or industry, different aspects of the TRI program are critical. In this discussion, we look at the basics of TRI compliance efforts and focus on those pitfalls and issues that can impact compliance or slow down a compliance effort.

**Anita Firestine**  
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## Mitigating Disease Spread in the Workplace: Lessons from the COVID-19 Pandemic

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Even before COVID-19, infectious diseases led to millions of worker absences every year. This webinar discusses disease-causing microbes and the best practices to mitigate their spread as we move into our new normal in a world with endemic COVID. Many workplaces are ending their remote working and requiring workers to return to in-office work. It is important to implement infectious disease policies and procedures to protect workers and include those policies in return-to-work plans.

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## Process Safety Accidents & Root Causes

 [View Recording](#)

This webinar provides a summary of five seemingly different accidents that happened in the past 4 years, and what the root cause investigations ultimately tell us about how to improve process safety in general and process hazard analyses specifically.



Gayle Nicoll, PhD, REP, ASP, CSP  
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# OSHA Heat Stress Standard – How Things are Heating Up

 [View Recording](#)

In September 2021 the Occupational Safety and Health Administration (OSHA) announced their intentions to enhance and expand measures to protect workers from hazards of extreme heat, indoors and out. This was followed by the initiation of the rulemaking process and an increased focus on heat stress hazards in the workplace by enforcement officials. Learn what you can do to prepare for this hotly anticipated regulatory change.



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# Digital ESG - Emerging Best Practices in Data, Reporting and Insight

 [View Recording](#)



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Across the globe, companies are time-pressured to develop and implement their ESG and carbon reduction strategies. The lifeblood of measurement and communication of progress toward those strategic goals sits in digital systems. This webinar reveals emerging trends in ESG reporting, software, implementation, data management, and integration strategies that best support a long-term ESG and sustainability program.



## Building a Cohesive Digital EHS/ESG Strategy

 [View Recording](#)

There is rapidly growing demand for data to support EHS compliance, auditing, internal reporting, sustainability, and now ESG. Larger, multi-national companies must also collect data from different business units across multiple geographies. Is your business prepared to respond to these demands using existing, non-integrated systems? This webinar will provide a roadmap of digital maturity, and show how to take the next step in defining a unified, integrated strategy that fits your people, culture, and business. Real client case studies will be presented to show emerging best practices.

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## Supply Chain Sustainability and Innovation Services

 [View Recording](#)

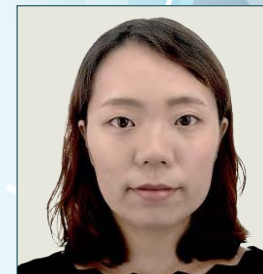
AECOM provides supply chain sustainability and innovative services to a variety of clients globally. As the world continues to change and reflect, our teams have continued focusing on our clients by developing and maintaining reliable supply chain sustainability systems. Understanding and crafting the supply chain is an integral part of a critical Environment, Social and Governance (ESG) strategy. Measuring and tracking supply chain performance to achieve long-term sustainable development is also challenging.

In this informative webinar, we will be sharing examples of how our teams in Asia have brought innovation and tailor-made supply chain solutions to our clients over the past 17 years. With the right approach, teams are able to adapt to challenges, minimize the risks of supply chain stability, and add value to ESG performance.

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Dr. David J. Nisbet is a professor of psychology at the University of North Carolina at Chapel Hill. He is also a senior research advisor at the Center for the Study of Social Design. Dr. Nisbet has published numerous articles on the psychology of social design and the environment. He is also the author of the book *The Psychology of Social Design*.

financial information each year. The number of companies reporting on Taxonomy is expected to increase due to the scope increase of the upcoming Corporate Sustainability Reporting Directive (CSRD) and the financial institutions' pressure, who in turn are also under disclosure obligations to comply with the EU Taxonomy Regulation.

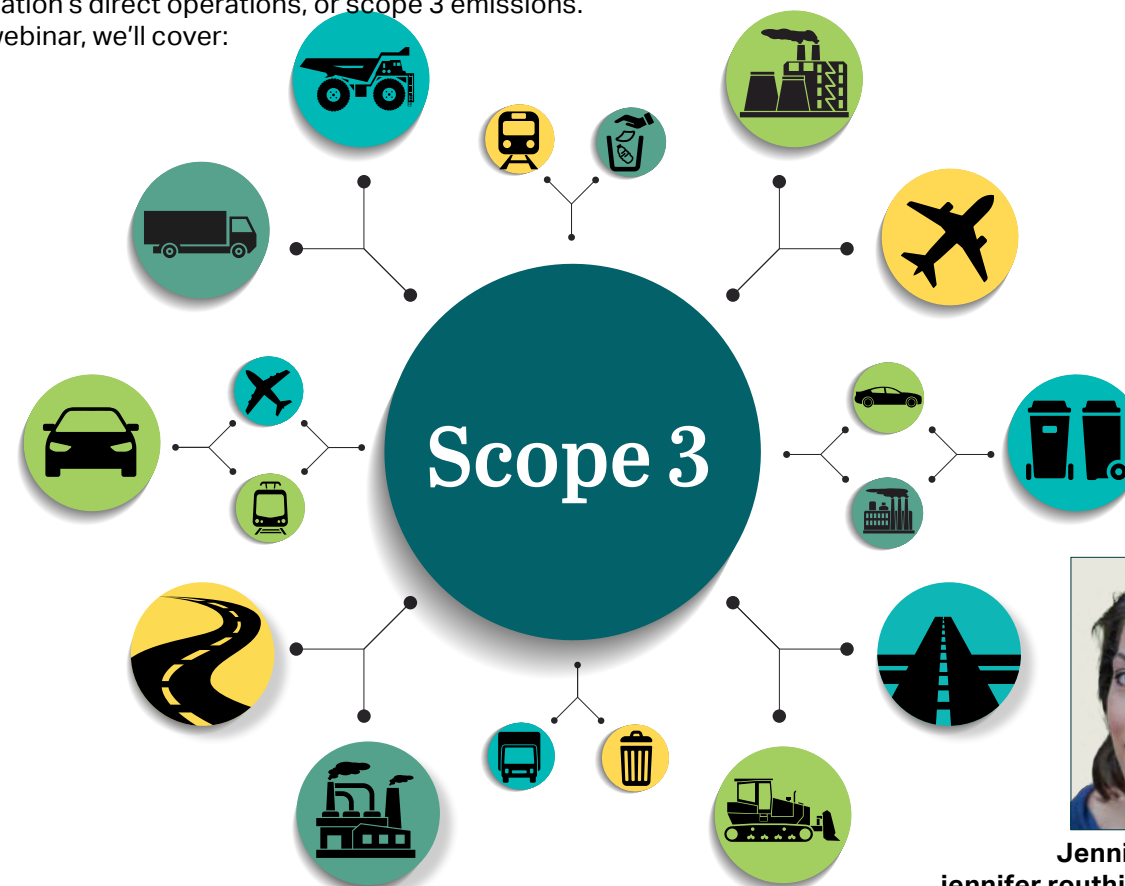
This webinar is directed specifically to non-financial undertakings although financial ones will benefit knowing what information they need to collate from their investees or companies under assessment if they all want to progress in their transition pathway.

## What are Scope 3 Greenhouse Gas Emissions and Why Are They Important to Organizational Accounting and Decarbonization Strategy?

 **View Recording**

Organizations the world over are grappling with the complexity of defining their impact on greenhouse gas emissions, and how to define measures for decarbonization efforts across their business. While there is continued urgency and importance on defining reduction strategies for direct and indirect emissions associated with energy use, increasingly, attention is turning to greenhouse gas emissions associated with upstream and downstream activities of an organization's direct operations, or scope 3 emissions. In our webinar, we'll cover:

- Activities that are included in this category of accounting
- How an organization can better define where they have opportunity to influence activities to reduce greenhouse gases within supply chain and downstream product use
- Why scope 3 emissions may be important to your organization's decarbonization strategy



**Jennifer Routhier, PE**  
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# The Emerging Digital Landscape — A Sea of Change is Coming!

***Trends AECOM is seeing to meet the challenges of modern EHS and ESG requirements***

AECOM serves many clients supporting increasing needs for digital systems to manage multiple reporting regimes from internal metrics, to regulatory reports, and voluntary disclosures. This presentation shares approaches we are observing clients implement as possible models for your consideration.

From our observations, AECOM is seeing a trend in eroding “brand loyalty” and the mainstreaming of Data Lakes that we believe portends a radical change in Digital management and the selection of software products.

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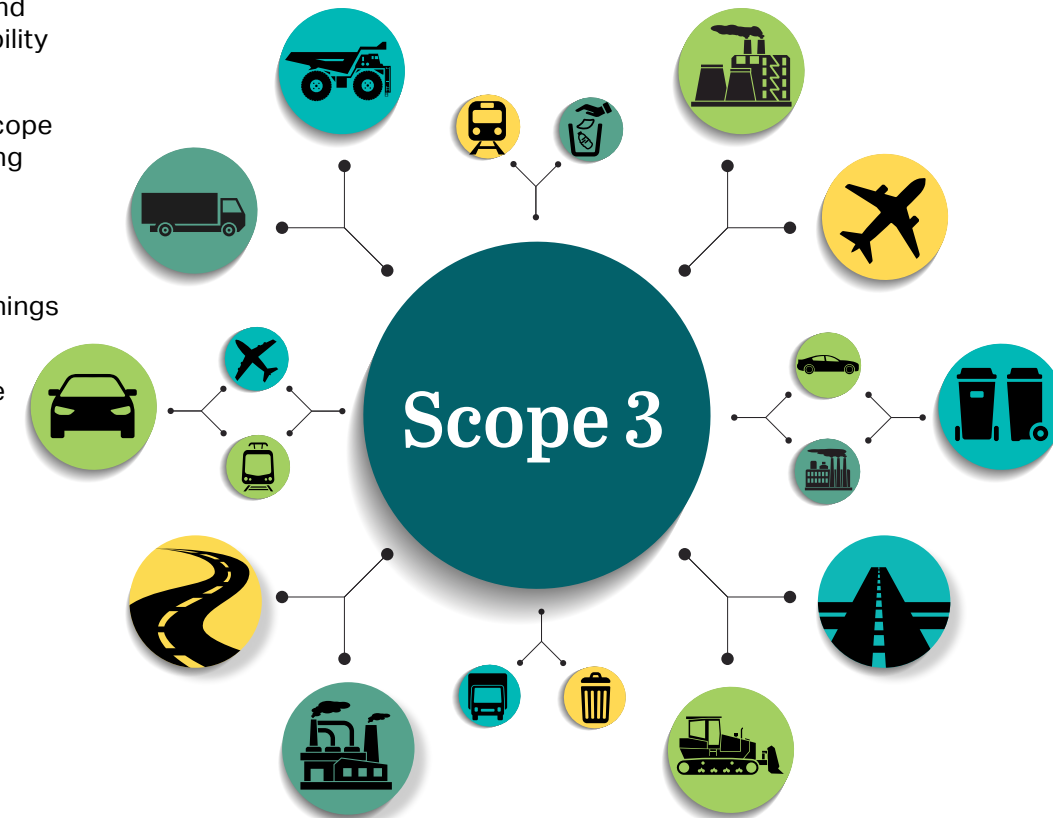
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# How to Tackle Your Scope 3 Emissions to Achieve Net Zero

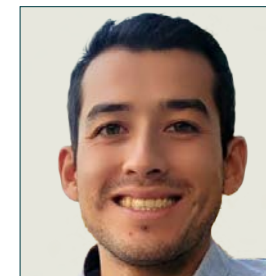
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Join our hosts Robert Spencer, Global Head of ESG Advisory, and Ryan Burrows, Global Sustainability Manager, to discuss:

- The opportunity: reducing Scope 3 emissions is key to achieving net zero
- The approach: putting a plan together to address Scope 3 emissions based on key learnings from AECOM's experience
- The suppliers: how to engage your suppliers and help them onboard with your emissions reduction programme



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# Environmental Permitting & Planning



## Submarine Cable Routing: Navigating Competing Uses of the Ocean



NO RECORDING AVAILABLE  
Slides Available Upon Request

Building low-risk submarine cable routes requires a detailed study of the human uses of ocean space and the marine environment to account for a variety of external risks that could pose a threat to the cables. The presenter discusses the methodology and importance of performing detailed, desktop study constraint analyses prior to starting marine construction survey work. Deep-dive, front-end research can identify risks early on in a marine construction program, which helps to identify the optimal footprint and saves resources in the long run.

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## Net Zero Accounting: Wholistic Digital Impact Assessment



View Recording

Experts demonstrate, through the wholistic lens of PlanEngage, the federal Impact Assessment requirements for the accounting of GHGs (Net Zero) under the strategic assessment of climate change, air emissions, and constraints mapping.

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## Supporting Indigenomics through Partnerships

 [View Recording](#)

Indigenomics is the study of modern Indigenous economic design and the development of Indigenous spaces across industries. Partnerships that support Indigenous companies build economic portfolios that consider both the potential opportunities and hurdles of Indigenous-led projects.

The Henvey Inlet First Nation and Pattern Canada partnership is an example of such an affiliation in the renewable energy sector. A 300 MW wind energy centre with a 104 KM transmission line was realized through this 10-year project. Consideration of many issues led to project success: jurisdictional, financial, cultural, and geographical. AECOM undertook the environmental assessments and environmental monitoring during construction and, importantly, integrated the community's Environmental Stewardship Regime with Canadian and provincial environmental regulations.

The Henvey Inlet Wind Energy Centre has been online since October 2019.

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**Frank Davis / Canada Country Head, Pattern Energy Group LP**



## Advancing Wildlife Permitting & Conservation with Quantitative Tools

 [View Recording](#)

Quantitative tools, such as statistics, modeling, and geospatial analysis, are integral to wildlife conservation. These tools are regularly applied in the permitting, assessment, and impact-avoidance processes that form the basis of much of AECOM's Environmental Permitting and Planning (EPP) project work.

In this webinar, ecology and wildlife permitting experts discuss diverse topics and describe examples of how they have applied their ecological and quantitative skillsets to create innovative solutions within a variety of projects. Discussion includes:

- Marine spatial planning for offshore energy development
- Applications of modeling tools used to predict and document impacts of land-based wind energy projects on eagles
- Geospatial modeling of California Condor movements to assess potential impacts of wind energy projects
- Evaluations of technologies designed to detect or deter birds and bats at wind turbines



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## Nature-based Solutions Understood

 View Recording

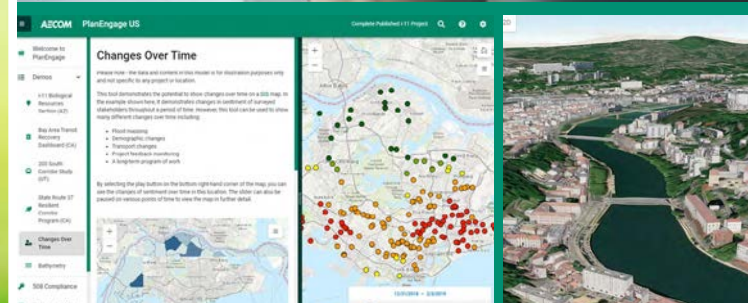
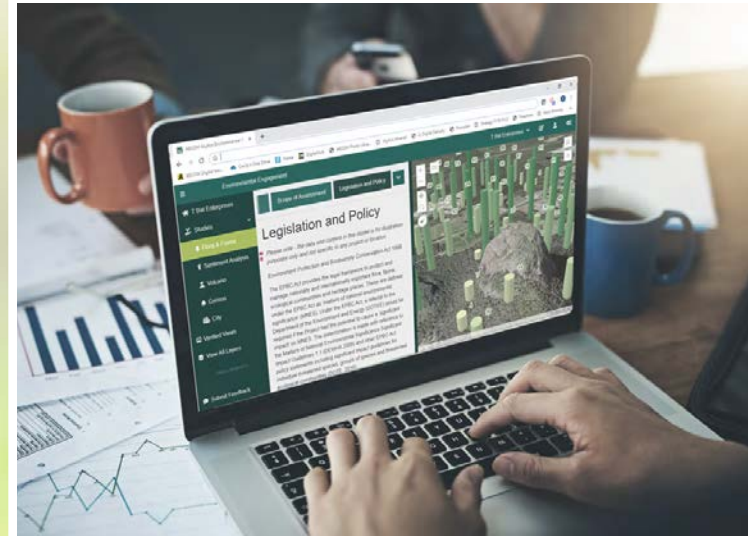
Join us to learn more about Nature-based Solutions (NbS) and AECOM's NbS pillars of practice in this exciting webinar. Nature-based Solutions are "actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature." – IUCN. At AECOM, we employ NbS to create a more resilient, biodiverse and sustainable world. In this webinar, we will discuss what NbS are, and how they are applied across the practice areas. We will explore how our work is aimed to foster growth towards more sustainable and resilient coastlines and waterfronts, apply nature-based features as a mode to progress physical resilience, evaluate natural capital, enhance ecosystem services and employ natural climate solutions as a pathway towards Net Zero.

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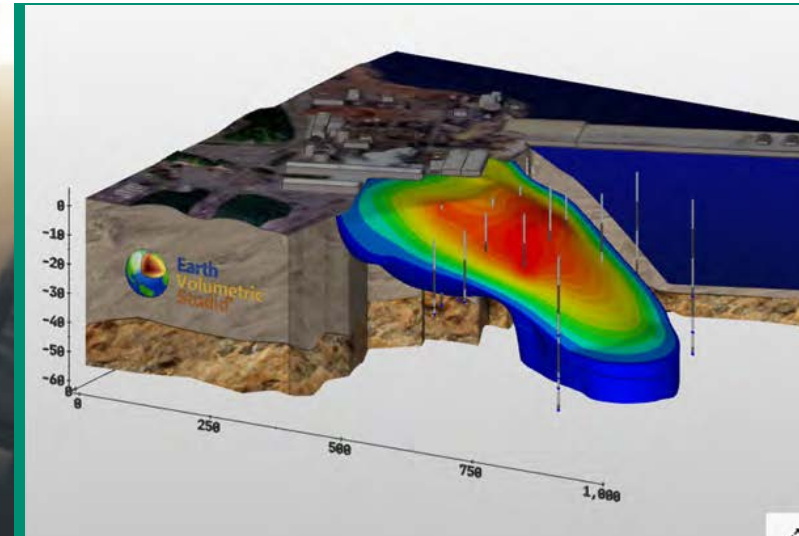


## When is PlanEngage a Good Fit? Exploring Possibilities

 View Recording



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# plan•engage

This webinar will briefly describe PlanEngage and then focus on how listeners can evaluate what PlanEngage offers in specific situations. Brian will focus on existing and currently proposed uses of PlanEngage to illustrate how proposal managers and project managers have integrated PlanEngage into their delivery approach. Brian will present various ways to think about new opportunities and will share criteria for determining how well PlanEngage fits into a specific opportunity.



# Integration of Climate Change Considerations with Environmental Impact Assessment

 [View Recording](#)

Extreme weather events and longer-term changes in climate are damaging infrastructure and disrupting the services they provide to communities. There is increased awareness and concern among communities of the implications of climate change and the need to reduce greenhouse gas emissions. Combined, these two issues are enhancing the importance of early consideration of the implication of climate change on projects, including at the approvals stage.

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# Remediation



## Accelerating US PFAS Regulations: Do they lead to a PFAS-free Destination?

(Focus on our Water and Wastewater Client Challenges)

 [View Recording](#)

The USEPA is hitting every milestone set in the PFAS Strategic Roadmap 2021. Myriad changes to guidance and directives keep coming, and AECOM will keep you up to speed.

With the latest changes to Federal drinking water, hazardous substance, and wastewater directives, it's clear that regulators are creating ways to get PFAS—or per- and polyfluoroalkyl substances—out of the environment.

There are more milestones ahead, but the latest requirements:

- increase the urgency to mitigate PFAS in water.
- create more certainty in treatment goals.

Potable water suppliers and wastewater managers seek PFAS solutions. AECOM specialists will explain PFAS regulations, existing and innovative solutions for PFAS treatment, and PFAS management in biosolids. Industry is advancing PFAS solutions rapidly, and AECOM can serve as your guide to a PFAS-free destination.

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## PFAS US Regulations – The Latest Evolution

(Focus on our Government, Industrial and Transportation Client Challenges)

 [View Recording](#)

The US Environmental Protection Agency first turned its attention on per- and polyfluoroalkyl substances (PFAS) after 2001. In 2009, USEPA released non-enforceable Health Advisories (HAs) for PFOS and PFOA in drinking water. HAs were lowered in 2016, and lowered again and expanded to include PFBS and Gen-X in 2022.

Our clients across public and private sectors—and especially water purveyors—have awaited a National Primary Drinking Water Regulation for PFAS since the USEPA set that as a goal its 2021 PFAS Strategic Roadmap.

On March 14, 2023, a draft rule setting drinking water limits was released for 6 PFAS, and it diverges from past rules by limiting 4 of the PFAS as a mixture.

We will discuss the proposed rule, explaining its basis, how it applies, and how clients may navigate implementing PFAS solutions in response.

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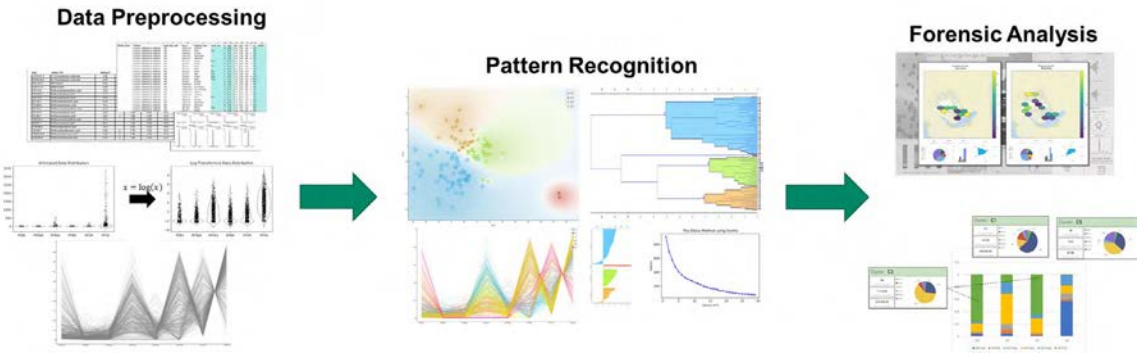
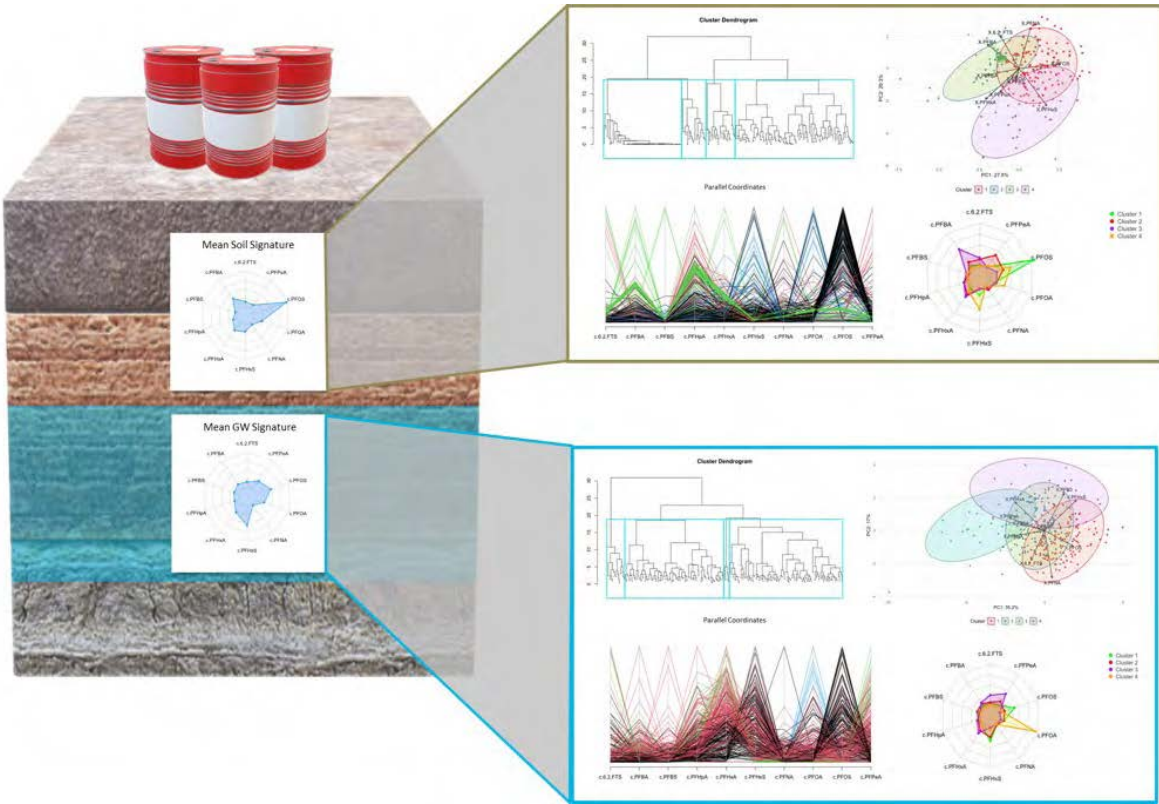


# PFAS Forensics Through Applied Statistics

 [View Recording](#)

To identify and characterize potential sources, the complex nature of per- and polyfluoroalkyl substance (PFAS) contamination requires a data-rich forensic fingerprinting approach, combining data science applications for pattern recognition with analytical chemistry techniques. We have developed and applied an exploratory, adaptive forensic investigation approach that maximizes the information extracted from PFAS data using various statistical programming techniques from the fields of chemometrics, unsupervised pattern recognition, and machine learning. These powerful tools use the data at hand to reveal emergent patterns that are otherwise hidden by the limitations of our own perception.

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# Are Nature-Based Solutions Possible for PFAS?

 [View Recording](#)

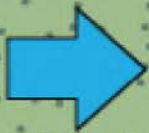
Nature-based Solutions (NbS) represent both management systems and actions geared to protect, sustainably manage, and improve natural and enhanced ecosystems, while providing for improvements in biodiversity and the human condition. The basic tenant of NbS advances nature as a solution to many of humankind's problems. Nature-based remediation focuses on identifying and enhancing existing systems, including biological systems, to help foster contaminant degradation. Per- and Polyfluoroalkyl Substances (PFAS) are problematic chemicals due to their recalcitrance and persistence in nature, combined with very low parts-per-trillion level toxicological thresholds for many of the compounds. Transference of PFAS into vegetation and other biota is well-documented. Recent bench-scale level studies have suggested that microbe-induced degradation of PFAS is possible. This presentation provides an overview of current research on biologically-mediated PFAS remediation, including phytoremediation, mycoremediation, and 'omics studies. Other novel applications are discussed. This presentation is technical, with advanced concepts on PFAS-plant interactions; only a brief overview are provided on PFAS chemistry and behavior.



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**PFAS  
Plume**





## Global Perspectives and Industry Trends on Nature-based Solutions

 [View Recording](#)

Nature-based Solutions refers to a management approach that uses natural processes to solve socio-economic environmental challenges. While various iterations have appeared throughout history, in different cultures, NBS as an ideology was not formally embraced until approximately 2013 (European Commission) and then in 2019, with additional global support and NBS initiatives from several nations. NBS typology is examined with a focus on concepts, approaches, and stakeholder engagement in context with societal benefits and evolving industry trends. A forthcoming webinar will examine various case studies and success stories.

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## Natural Source Zone Depletion: Incorporating Nature-based Solutions into Petroleum Site Management

 [View Recording](#)

Natural source zone depletion (NSZD) refers to the reduction in mass of hydrocarbons within light nonaqueous phase liquid (LNAPL) source zones through naturally occurring processes. Improved understanding of NSZD processes and refinement of measurement methods in recent years has shown that microbial activity within the LNAPL source zones is typically much higher than previously thought. As a result, NSZD measurements are more frequently included in the characterization and remediation of

LNAPL sites to achieve a variety of objectives, from evaluating the relative benefit of engineered remedies to mapping LNAPL distribution and demonstrating source zone stability. The presentation provides an overview of NSZD concepts and a description of current measurement methods. Case studies are presented to highlight potential strengths and weaknesses of different techniques, and to provide example scenarios where NSZD has been successfully incorporated into site management.



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# Exploring the World of Remediation Sustainability Tools

 [View Recording](#)

To support AECOM's commitment to Green and Sustainable Remediation, our professionals use a number of public, commercial, and in-house tools to identify and mitigate key impacts, facilitate discussions with stakeholders, and provide cost-effective remedies. This webinar will explore a range of remediation sustainability tools for assessing the environmental, social, and economic impacts of remediation projects and shows how we select the best tool for the job.

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**Dr. Tom Stratham**  
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# Brownfield Grants and Navigating Funding Options for Redeveloping Contaminated Sites

 [View Recording](#)



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This presentation will focus on US EPA Brownfield grant and loan funds that eligible parties can utilize to stimulate economic and community development activities, including information about various grant types and uses, grant application strategies, and potential opportunities for leveraging with other federal grant programs by using AECOM's Fund Navigator. We will also share an overview of a completed Brownfield project that resulted in the redevelopment of a former industrial property into an urban nature preserve and local educational resource.



# Getting Ahead of the PFAS Dilemma: DE-FLUORO™ Destruction Technology Advances

 [View Recording](#)

Increasingly stringent global restrictions on PFAS manufacturing, use, treatment, and disposal have created a significant need for permanent PFAS solutions, specifically, destruction technologies that eliminate PFAS from waste streams.

DE-FLUORO™ is a scalable technology that destroys PFAS from contaminated liquids, including Aqueous Film Forming Foam (AFFF) and concentrated PFAS-impacted water and liquid waste using electrochemical oxidation to achieve acceptable final liquid discharge requirements. Having completed demonstrations of DE-FLUORO up to field-scale in both coupled and stand-alone configurations, we are ready to share the results of and are poised to deploy DE-FLUORO in commercial applications. Learn more about PFAS restrictions around the globe and the role of DE-FLUORO at our upcoming webinar.



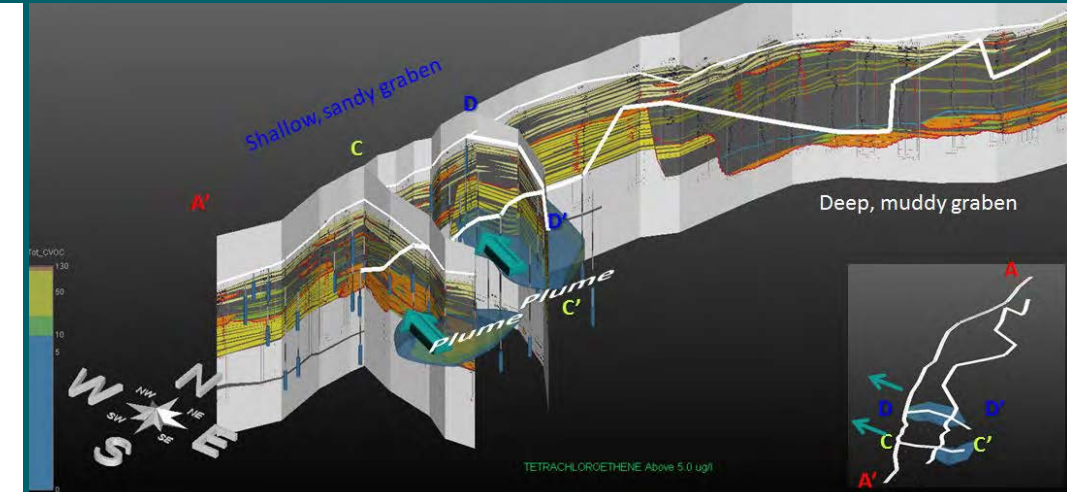
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# The Application of PRISM® to the Investigation and Remediation of Contaminated Sites

 [View Recording](#)



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**Ryan Samuels**  
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Highly heterogenous and complex geologic settings present significant challenges in remediating contamination and quickly achieving cleanup goals. Implementing a correlation approach that addresses subsurface heterogeneity between boreholes is critical for effective remedial decision-making. AECOM's PRISM® methodology provides a realistic subsurface correlation based on predictable distribution of sediments in different depositional environments. The three-dimensional geologic framework derived from PRISM® is used to map the heterogeneity between high and low permeability units across multiple scales and beyond the existing site data set.

AECOM's PRISM® methodology was selected as a peer-reviewed chapter in a book entitled 'Advances in the Characterization and Remediation of Sites Contaminated with Petroleum Hydrocarbons' which is slated for publication by Springer Nature on October 28, 2023. This webinar discusses the methodology and case study elaborated in the book chapter as a preview of the upcoming publication.





Energy



## The Circular Economy – Being Green with Brown

 [View Recording](#)

In this webinar, we review the current U.S. political and economic drivers of the waste-to-energy economy. Discussion includes a review of prevalent technologies and the unique needs in reaching a sustainable energy future.



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## Hydrogen Fuel Production from Offshore Wind Energy (H2-OSW): Business Cases, Permitting, and Technology

 [View Recording](#)

While hydrogen production technology has already evolved to a point where it can be sited complementary to offshore wind projects, research and development to optimize safety, efficiency, and commercial readiness of such coupling are still in early stages.

Join this webinar to learn more about how:

- H2-OSW may occur along a broad spectrum of potential implementations
- Regional conditions (economic, environmental, regulatory) will influence

diverse business cases driving implementation approaches

- Existing US federal regulations are generally able to accommodate H2-OSW already, though new considerations, interpretations, safety issues, and impacts will need to be considered.
- OSW may act as an integrator within a diversifying energy/resource economy in the transition toward net-zero goals.



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# Green Hydrogen – Best Practices & Challenges of Implementation

 [View Recording](#)



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**Steve Leach**  
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What are the barriers to delivering no-carbon hydrogen, and how can we overcome the challenges in securing supplies of the three main ingredients needed - lots of renewable energy, fresh water and electrolyzers? In this webinar, energy experts Sam Mackilligin and Steve Leach will explore best practice and implementation challenges for green hydrogen, along with where it will be produced and used. They will also shed light on how we are finding solutions to these challenges in partnership with our clients.

# Making Offshore Wind a Reality: a Local and Global Perspective

 [View Recording](#)

Offshore wind is set to play a major role in the #energytransition across Australia and New Zealand. Want to learn more about innovations and approaches we can leverage from global markets to improve the efficiency and sustainability of offshore wind development here?

This webinar will explore global emerging trends and learnings from industry best practices and offer insights into the challenges and technology advances on the horizon. We will also discuss the importance of a coordinated approach to Commonwealth and State approvals, how using a project design envelope for assessment provides project flexibility and a systematic approach to considering cumulative impacts.



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# Headwinds and Tailwinds in the Energy Transition: the Outlook for 2024



View Recording



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The energy transition is gathering momentum. Climate change, regulatory policy and energy security are converging to support the transformation of our global energy system. Spend in clean technology is growing and countries are setting new targets to increase renewable energy output.

However, against this backdrop the business environment is becoming more challenging. Cost inflation and high interest rates are raising issues around affordability. Consumers are struggling to switch to EVs and heat pumps. Corporations are finding it harder to decarbonise and a number of clean energy projects are encountering headwinds. Some national governments, while committed to net zero are shifting environmental policy targets further back.

How will the transition evolve across different regions? What are the headwinds and tailwinds? Are we seeing a faltering in commitments just when the response to climate change needs to be escalated? How should companies and governments respond to the decarbonisation challenge? What is AECOM doing to help our clients through this transformation?



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