



# TECHNICAL CONFERENCE ON ENVIRONMENTAL PERMITTING & COMPLIANCE AGENDA FEBRUARY 6-8 | THE FLORIDA HOTEL, ORLANDO, FL

## TUESDAY, FEB 6

SESSION	TIME		TRACK	LOCATION
Registration Open	2:00PM	5:00PM		Heroes Ballroom Pre-Function
Welcome to Orlando Opening Reception	4:30PM	7:30PM		Heroes Ballroom

## WEDNESDAY, FEB 7

Registration Open/ Badge Pick-Up	7:00AM	4:00PM		Legends Pre-Function
Breakfast	7:00AM	8:00PM		Legends 1
Welcome to Orlando	8:00AM	8:30AM	General Session	Legends 1
Real Sustainability: How Oil and Gas Can Navigate the Era of Climate Justice & Woke Capitalism	8:30AM	9:30AM	Keynote Address: Tisha Schuller	Legends 1
INGAA Foundation Update - What's happening in Washington, how it will effect you?	9:30AM	10:30AM	General Session	Legends 1
Refreshment/Networking Break	10:30AM	10:45AM		Legends Pre-Function

### SESSION 1

Environmental Justice in Action: Real World EJ Applications	10:45AM	11:45AM	Environmental Permitting	Legends 1
Construction Solutions in High Water Environments	10:45AM	11:45AM	Construction	Legends 2
Fossil to Future: Reducing Emissions by Harvesting Thermal Energy	10:45AM	11:45AM	Air Quality Permitting & Compliance	Legends 3
Networking Lunch	11:45AM	12:45PM		Legends 1

### SESSION 2

Bridge Over Troubled Water	12:45PM	1:45PM	Environmental Permitting	Legends 2
EJ Lessons Learned and How to Keep EJ from Going South	12:45PM	1:45PM	Construction	Legends 1
FERC Air Emissions and Modeling	12:45PM	1:45PM	Air Quality Permitting & Compliance	Legends 3
Refreshment/Networking Break	1:45PM	2:00PM		Legends Pre-Function

### SESSION 3

So I Have This Project...	2:00PM	3:00PM	Environmental Permitting	Legends 1
Fugitive Emissions Compliance: Technology-Based Solutions for Precision Methane Leak Detection and Quantification	2:00PM	3:00PM	Air Quality Permitting & Compliance	Legends 2
Methane Quantification Methodologies: Using Direct Measurement vs. Emission Factors	2:00PM	3:00PM	Air Quality Permitting & Compliance	Legends 3
Refreshment/Networking Break	3:00PM	3:15PM		Legends Pre-Function

### SESSION 4

Best Practices for Conducting Pipeline FEED Studies, An Environmental Perspective	3:15PM	4:15PM	Environmental Permitting	Legends 2
Monarch Candidate Conservation Agreement with Assurances (CCAA)	3:15PM	4:15PM	Construction	Legends 1
Current Landscape of Carbon Emissions- Neutral, Net Zero, etc	3:15PM	4:15PM	Air Quality Permitting & Compliance	Legends 3
Networking Reception	4:30PM	6:00PM		Legends Pre-Function

## THURSDAY, FEB 8

Registration Open/ Badge Pick-Up	7:00AM	4:00AM		Legends Pre-Function
Breakfast	7:00AM	8:00AM		Legends 1

FERC Regulatory Update	8:00AM	9:00AM	General Session	Legends 1
FERC Data Request Trends: A Roundtable	9:00AM	10:00AM	General Session	Legends 1
Refreshment/Networking Break	10:00AM	10:15AM		Legends Pre-Function
Making Dollars and Sense Out of the IRA Tax Credits for Clean Energy	10:15AM	11:15AM	General Session	Legends 1
Refreshment/Networking Break	11:15AM	11:30AM		Legends Pre-Function
SESSION 5				
Operator Discussion on How to Plan Environmental Projects	11:30AM	12:30PM	Environmental Permitting	Legends 1
Driving Sustainability Value and Managing Sustainability Risk	11:30AM	12:30PM	Construction	Legends 2
EJ Air Permitting 101	11:30AM	12:30PM	Air Quality Permitting & Compliance	Legends 3
Networking Lunch	12:30AM	1:30PM		Legends 1
SESSION 6				
T&E Updates for Oil and Gas	1:30PM	2:30PM	Environmental Permitting	Legends 1
Safe Construction in Narrow Corridors	1:30PM	2:30PM	Construction	Legends 2
Everything, Every Air Reg, All at Once	1:30PM	2:30PM	Air Quality Permitting & Compliance	Legends 3
Refreshment/Networking Break	2:30PM	2:45PM		Legends Pre-Function
SESSION 7				
Biological Monitoring with Environmental DNA: A Cost-Saving and Beneficial Tool for Linear Pipeline Projects	2:45PM	3:45PM	Environmental Permitting	Legends 1
Where Have All the Growth Projects Gone?	2:45PM	3:45PM	Environmental Permitting	Legends 3
Navigating Stormwater and Wastewater Compliance: Proven Strategies for Seamless Field Implementation	2:45PM	3:45PM	Construction	Legends 2
Closing Reception	3:45PM	5:00PM		Legends Pre-Function



# TECHNICAL CONFERENCE ON ENVIRONMENTAL PERMITTING & COMPLIANCE DESCRIPTIONS & SPEAKERS

WEDNESDAY, FEB 7

## General Sessions

### Real Sustainability: How Oil and Gas Can Navigate the Era of Climate Justice & Woke Capitalism

**Tisha Schuller, *Adamantine Energy***

As an oil and gas leader, you know that the industry is being squeezed today—by climate activists and ESG stakeholder expectations on the one side and a loud anti-ESG, anti-woke capitalism movement on the other. So, what's the smart path forward for our industry? That's what Tisha's new talk reveals.

### What's Happening in Washington, How it Will Affect You?

**Amy Andryszak, *INGAA***

The natural gas pipeline industry has faced numerous federal regulatory actions during the last few years and federal agencies are moving quickly to finalize actions during the upcoming fourth year of the Biden Administration. We'll hear from the CEO of INGAA, the federal trade association representing the natural gas pipeline industry in Washington, DC, on the latest regulatory actions from EPA, PHMSA, TSA, and CEQ and the potential impacts for our industry.

## SESSION 1

### Environmental Justice in Action: Real World EJ Applications

**Blake Amos, *KinderMorgan* , Diane Reilly, *TRC* , Andrea Grover, *Enbridge* , Gus McLachlan, *Enbridge*, Amy Sacakoff, *Stantec***

Environmental Justice (EJ) remains an evolving issue for energy infrastructure projects. Often, discussions of EJ focus on how an EJ analysis should be conducted and/or best practices for conducting EJ reviews. However, rarely do we see the results of EJ efforts in action. In this session, multiple industry representatives will provide real world examples of how they use EJ in the development of energy infrastructure projects. More importantly, they will show how their projects evolved as a result of their EJ analyses and share lessons learned.

### Construction Solutions in High Water Environments

**Paul Cook, *Sunland Construction* , David Parham, *Energy Transfer* , Roland Ruiz, *RUIZ***

High water environments can be a challenge to construction projects in both permitting and execution. This panel discusses three real-world examples of technologies used to successfully execute projects where large water volumes posed a risk to construction success.

### Fossil to Future: Reducing Emissions by Harvesting Thermal Energy

**Johanna Ostrum, *Gradient Geothermal***

This session delves into innovative strategies for curbing greenhouse gas emissions by repurposing waste heat from oil and gas industries. This talk examines how state-of-the-art technologies can capture and convert thermal energy typically lost during oil and gas production, transforming it into a clean, reusable power source. By highlighting successful case studies and exploring the potential scalability of these methods, the presentation showcases a pivotal shift towards more sustainable energy practices within traditional fossil fuel sectors, underscoring the role of transitional technologies in our journey to a greener future.

## SESSION 2

### Bridge Over Troubled Water

**Stephen Chu, *Arcadis* , Ryan Bombeck, *Arcadis***

Navigating the everchanging definition of Waters of the U.S. and how to avoid getting swept downstream.

### EJ Lessons Learned and How to Keep EJ from Going South

**Jeff Wakefield, *SWCA***

The EJ roundtable will focus on sharing insights intended to help others implement a successful environmental justice process. The focus will be on very practical lessons learned.

### FERC Air Emissions and Modeling

**Kathryn Anderson, *Stantec* , Selina Vinski, *Stantec***

An air dispersion modeling analysis is often required as part of a FERC RR9 air submittal. This presentation will review modeling conventions currently being used to support RR9. In addition, we will discuss recent trends in the FERC data requests surrounding modeling analyses and modeling options that will meet the FERC expectations. Finally, the discussion will include how the significant impact level (SIL) and Radius of Impact (ROI) are currently impacting modeling and EJ discussions as well as how FERC is utilizing these tools differently than the state agencies.

### SESSION 3

#### So I Have This Project...

**Eric Barbee, E2A , David Dickson, Terracon**

Building the environmental scope and projecting cost for a project can be a challenge for both project sponsors and their consultants, especially in the early stages of planning. This session highlights the issues sponsors may not have fully considered when scoping their project, while also noting the challenges consultants face in providing accurate costs when definitive project details have not yet been decided.

#### Fugitive Emissions Compliance: Technology-Based Solutions for Precision Methane Leak Detection and Quantification

**Dave Prall, SWCA**

In September of 2022, anticipating the EPA's Final Rule for Oil and Natural Gas Operations aimed at sharply reducing methane fugitive emissions, SWCA Environmental Consultants' Data Acquisition Team developed a unique, precision methane leak detection and reporting system that leverages airborne and space-based sensors to locate and quantify emissions. Join SWCA's Director of Data Acquisition, Dave Prall, to learn more about how this technology helps O&G operators to monitor large natural gas production fields in the U.S. The unique

#### Methane Quantification Methodologies: Using Direct Measurement vs. Emission Factors

**Mark Sangil, Arktos, Thomas Leleck, Arktos**

Presentation will focus on collection and comparison of the follow methodologies across several natural gas facilities: Direct Measurement (with a Semtech Hi-Flow 2 Sampler), PPM (with a Bascom Turner Gas Rover II device & using EPA correlation equations), EPA Emission Factor, (1995 EPA Protocol for Estimation of Leaks). The presenters will utilize real field examples and compare results across the methodologies/technologies.

### SESSION 4

#### Best Practices for Conducting Pipeline FEED Studies, An Environmental Perspective

**Keith Suderman, TRC**

Front End Engineering Design ("FEED") is basic engineering, focused on technical design, estimated costs, approximate schedule, and potential risks. They are an important first step in determining potential challenges to a proposed pipeline project. While typically led by an Engineering Department, producing a "good" FEED (i.e., one that survives execution without significant changes) requires input from Environmental Professionals. However, producing a "great" FEED (i.e., one that uses environmental/regulatory information to minimize cost, schedule, and risk) requires a two-way commitment from both Engineering and Environmental Professionals. Over the last few years, the universe of FEED study considerations has grown to include items like Environmental Justice Communities. In this session, Environmental Professionals will detail these changes, and share best practices to get from a good FEED study to a great FEED study.

#### Monarch Candidate Conservation Agreement with Assurances (CCAA)

**Leslie TeWinkel, Merjent; Jennifer Cannon, TC Energy; Ronan Mason, TC Energy; Scott Sharpe, Marathon Petroleum; Christa Webber, Northern Natural Gas**

Panel discussion on the Pros and Cons of Enrollment in the Monarch CCAA and the various strategies for Enrollment.

#### Current Landscape of Carbon Emissions- Neutral, Net Zero, etc

**Chris Lehmann, Anew**

The landscape of carbon claims may seem rugged, treacherous, or divisive. The duration of this presentation will speak to the differences and challenges depending on the chosen path and how companies might take action internally and externally to traverse the landscape to a more positive future.

### THURSDAY, FEB 8

#### General Sessions

##### FERC Regulatory Update

**David Hanobic, FERC**

This update will provide an overview detailing the past year, what's new at FERC and current trends.

##### FERC Data Request Trends: A Roundtable

**Tammy Kentner, Arcadis , Joanne Wachholder, FERC , LaShawndra Proctor, TC Energy**

2023 data request trends for applications filed in the natural gas industry, both in Blanket Prior Notice Environmental Reports and Section 7 applications. This session will be a roundtable presentation and discussion with the FERC, natural gas industry, and environmental consulting industry.

## Making Dollars and Sense Out of the IRA Tax Credits for Clean Energy

Brian Petermann, *POWER Engineers*

The Inflation Reduction Act (August 2022) allows a broad range of tax credits for clean energy development. Highlights include hydrogen, renewable energy, carbon capture & sequestration, and clean fuels. The amount of money available is monumental and will broadly impact the entire energy industry in some manner. Though IRS guidelines are only beginning to be issued, a great deal can be learned about positive financial impacts on potential future clean energy project developments. This presentation is an introduction to the clean energy tax credits, differences between investment and production credits, and provides several examples of the possible application.

## SESSION 5

### Operator Discussion on How to Plan Environmental Projects

Thomas Shimer, *KinderMorgan*, Ben Carlisle, *Southern Star*, Melissa Dettling, *TC Energy*

Open roundtable discussion over what tools are being used, have those been effective, what has been learned over time, how to continue a project during regulatory changes.

### Driving Sustainability Value and Managing Sustainability Risk

Chris Kline, *SWCA*; Tristan Steichen, *SWCA*; Jeff Wakefield, *SWCA*

Successful sustainability plans enable businesses to effectively manage risk and create value. Key to these benefits is determining what sustainability topics are truly material for the business. No where is this statement more true than with the natural gas industry. This session will review what key global sustainability frameworks have to say about what is material to our industry and will also examine the latest regulatory and investor-based sustainability priorities. Whether your company has a mature sustainability program or is just beginning its journey, this session will have useful information for you.

### EJ Air Permitting 101

Lacey Ivey, *Stantec*, Kathryn Anderson, *Stantec*, Selina Vinski, *Stantec*

How to prepare your air permit application and avoid permitting delays or compliance issues. We will be discussing what state agencies are currently requiring to be submitted with your air permit to satisfy state environmental justice initiatives and what may be expected in the future. The presentation will include examples from several states.

## SESSION 6

### T&E Updates for Oil and Gas

Andrea Sampson, *Merjent*

Updates on newly-listed, proposed, and other topical ESA species as they relate to oil and gas pipeline construction, operations and maintenance, and right-of-way vegetation management. Presentation of the updated functionality of the USFWS Information for Planning and Consultation (IPaC) online tool (including Dkeys).

### Safe Construction in Narrow Corridors

Paul Cook, *Sunland Construction*, Roy Weaver, *Weaver LLC*, Ryan Hebert, *WHC*

This panel discusses narrow corridor construction from the perspective of the construction contractor. Discussion will cover different means and methods for completing projects safely in narrow, often wetland, corridors. Construction managers will share their insight on how project managers and permitting staff can best set their contractors up for a safe and successful project.

### Everything, Every Air Reg, All at Once

Thomas Sullivan, *POWER Engineers*, Charlie Barker, *POWER Engineers*

Thomas and Charlie will discuss the status of many potential EPA rules affecting GHG reporting, NSPS OOOOx updates, Good Neighbor Rule, and other potential impacts. They will help navigate the complex environment that connects Oil and Gas to these rules with a focus on steps to consider going forward.

## SESSION 7

### Biological Monitoring with Environmental DNA: A Cost-Saving and Beneficial Tool for Linear Pipeline Projects

Nate Marshall, *Stantec*

Infrastructure projects routinely include biological monitoring surveys for the assessment of rare, keystone, or invasive species. Traditionally, characterizing biodiversity requires time-intensive surveys with field crews that are trained in species identification to physically capture the organisms. Therefore, the recent genetic revolution through the analysis of environmental DNA (eDNA – genetic material released from an organism) has become an attractive tool for biomonitoring purposes within infrastructure and linear projects. This method provides detection of organisms without the need to capture or even see them within the environment, often exhibiting increased sensitivity compared to conventional methodology. Although most progress has occurred for aquatic applications, advancements are focusing on terrestrial environments, including the collection of eDNA from air. While the breadth of eDNA research is promising, current uncertainties and drawbacks limit regulatory acceptance of eDNA-based evidence to support permitting and project approvals. We discuss recent advancements for eDNA applications across environments and the path toward incorporating eDNA tools into linear infrastructure projects that require regulatory review. We will provide case studies and real-world examples for implementing eDNA methodology for biomonitoring surveys, and explore the development of guidelines/standards for eDNA applications to meet environmental mandates by federal and state government agencies.

#### **Navigating Stormwater and Wastewater Compliance: Proven Strategies for Seamless Field Implementation**

**Nathan Collier, *POWER Engineers*; Jeremiah Walker, *BODEN***

This session will engage participants on compliance in stormwater and wastewater, providing a brief overview with actionable advice and strategies for effectively administering compliance requirements in real-world situations.

#### **Where Have All the Growth Projects Gone?**

**Sean Sparks, *Tetra Tech*, panelists TBD**

A panel discussion asking if the industry is feeling too much pressure to pull the trigger on gas projects due to regulatory uncertainty.