



SPE Virtual Workshop: Joint Industry Solutions Series - Reducing Carbon Footprint in Drilling Operations

23–25 November 2021 | Virtual (UTC +8)

Sign up before 22 October 2021
for EARLY BIRD savings!



Who Should Attend

Professionals involved in:

- Asset Management and Operations
- Carbon Emission Management
- Drilling and Completions
- Facilities Management
- HSE and Risk Management
- Logistics
- Process Safety Management
- Service Companies
- Supply Chain
- Technology Enablers
- Wells Engineering and Services

Around the world, oil and gas companies are under pressure to accelerate its energy transition and increase carbon emission cuts to meet the greenhouse carbon emission reduction target set by the Paris Agreement. Major operators are reassessing their business strategies to ensure their oil and gas business is sustainable and viable long-term.

The acceleration of global warming effects further instilled a stronger sense of urgency and prompted many oil and gas players to take a serious look at reducing carbon emissions in various projects by announcing more net-zero carbon emission goals. This shift in business strategies also increased the need for collaboration between companies to share technological advancement and novel approaches as a way to survive this major transition.

It is forecasted that more countries are introducing and/or developing more stringent green requirements to qualify for the license to operate. This is the biggest factor for the oil and gas industry to strive to remain relevant, as getting funds from investors may rely entirely on the company's direction in going green in the future. It has prompted significant efforts to reduce carbon emission in the oil and gas industry, specifically in production and the downstream sector, being the highest emission contributor.

However, the drilling sector is still far behind. Being a highly complex operation, drilling activities face a major challenge in identifying the scopes to report within the Paris Agreement requirement. Comparatively small in the percentage of emission contribution, the drilling sector still need to make an effort to create value in the entire lifecycle, thus, improving the overall business direction.

The second edition of the SPE Joint Industry Solutions Series look to address these challenges, in order to sustain and continue drilling activities. While there is no quick-fix to address these issues, together, we can start the process by playing an important role in exploring and identifying solutions for a sustainable future. In-depth discussions will cover key areas such as:

- How do we measure emission from drilling operations?
- Which scope of emission applicable for drilling operations?
- What actions should be taken to reduce emissions?

Session Highlights

Panel Session – Creating Awareness: Standards, Protocols, and Regulations

Panel Session – Journey to Overcoming Challenges

Pain Points – How Do We Measure Emission in Drilling Operations? (Operators and Service Providers' Perspective)

Interactive Breakout and Group Presentation Sessions

GROUP REGISTRATIONS AVAILABLE

Contact us at apweb@spe.org to arrange your group.

go.spe.org/22WM07W

Supported by



Workshop Objectives

This workshop aims to gather industry players and subject matter experts to:

- Create awareness and learn the required certifications, calculation methods, and standards for reporting.
- Identify pain points within drilling operations to be addressed in a long-term carbon reduction project.
- Learn from countries with more understanding in this topic with more established methods to be shared.
- Discuss best practices for the APAC region (developing and more developed countries).
- Deliver a working guideline to promote camaraderie within the industry to achieve an agreed target - Setting the scene for a future of unified standards



Bespoke, expert-led technical topics



Knowledge sharing and technical discussions



Peer-to-peer networking opportunities



Technical Programme Committee

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- Meet and network with members near you and around the globe
- Demonstrate thought leadership in your area of expertise and interest at both local and international levels

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Programme Schedule

Note: All times are Greenwich Mean Time (UTC) +8

TUESDAY, 23 NOVEMBER 2021	
1300 - 1315 hours	Welcome Remarks by Workshop Co-Chairs
1315 - 1330 hours	Keynote Address
1330 - 1430 hours	Session 1: Panel Session – Creating Awareness: Standards, Protocols, Regulations
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2: Pain Points – How Do We Measure Emission in Drilling Operations (Part 1 – Operators Perspective)
1630 - 1700 hours	Networking Break
WEDNESDAY, 24 NOVEMBER 2021	
1300 - 1430 hours	Session 3: Pain Points – How Do We Measure Emission in Drilling Operations (Part 2 – Service Providers Perspective)
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4: Breakout Session
1630 - 1700 hours	Networking Break
THURSDAY, 25 NOVEMBER 2021	
1300 - 1500 hours	Session 5: Group Presentation
1500 - 1530 hours	Networking Break
1530 - 1630 hours	Session 6: Panel Session – Journey to Overcoming Challenges
1630 - 1700 hours	Networking Break

Register and join the sessions at your local time:

0800 hours - Doha / Kuwait City / Manama / Riyadh
 0900 hours - Abu Dhabi / Dubai / Muscat
 1030 hours - New Delhi
 1130 hours - Yangon
 1200 hours - Bangkok / Hanoi / Jakarta

1300 hours - Bandar Seri Begawan / Beijing / Kuala Lumpur / Perth / Singapore
 1400 hours - Tokyo / Seoul
 1430 hours - Adelaide
 1500 hours - Brisbane
 1700 hours - Wellington

Technical Programme Preview

TUESDAY, 23 NOVEMBER 2021

1300 - 1315 hours **Welcome Remarks by Workshop Co-Chairs**

Co-chairs: Mohd Abshar Mohd Nor, **PETRONAS Carigali Sdn Bhd**; Zahris Sham Abu Musa, **Schlumberger**

1315 - 1330 hours **Keynote Address**

1330 - 1430 hours **Session 1: Panel Session – Creating Awareness: Standards, Protocols, Regulations**

Session Managers: Suresh Sinnappu, **Baker Hughes**; Stephanie Chow Yuk Ha, **Schlumberger**

The journey towards decarbonisation entails collective effort from all involved stakeholders. With the industry moving towards a greener operation, this panel session will discuss the fundamental topics that are keys to success, such as:

- Realising the importance of GHG emission reduction across the value chain and the urgency to act
- Behavioural change in the organisation to drive green projects or initiatives
- Standards for GHG emission reporting and target setting
- Regulating greenhouse gas emissions and examples of policies in place
- How can the industry drive awareness and operationalise efforts within the standards, protocols, and regulations?

1430 - 1500 hours Networking Break

TUESDAY, 23 NOVEMBER 2021

1500 - 1630 hours **Session 2: Pain Points – How Do We Measure Emission in Drilling Operations (Part 1 – Operators Perspective)**
Session Managers: *Gabriel M. Higuera, BP; Mikkel Sondergaard Pedersen, Maersk Drilling*

This session will have operators to share not only their measuring approaches (including metrics such as Ton CO₂/contracted day, or Ton CO₂/drilled metre) but also the various activities and emission categories their companies consider. Typically, operators report wells in scope 1 and 2 emissions and include those associated with the combustion of diesel used for power generation in MODUs (power), combustion of reservoir fluids during flaring (such as well test and clean up), un-combusted methane from flaring (methane), logistics-related emissions, and emissions associated with integrated drilling and productions facilities. Liquids burning and methane venting from flowbacks and interventions will also need to be included.

The expectation is to encourage the participants to share best practices, analysis methodologies, engineering calculations/models, measurement technologies (Coriolis meters, sensing technology at sites), semi-quantitative approaches, and validation methods using relevant industry standards, so we can all collectively benefit, and enhance our ability to manage our emission performance against the industry/companies targets.

1630 - 1700 hours Networking Break

WEDNESDAY, 24 NOVEMBER 2021

1300 - 1430 hours **Session 3: Pain Points – How Do We Measure Emission in Drilling Operations (Part 2 – Service Providers Perspective)**
Co-Chairs: *Yap Yun Thiam, PETRONAS Carigali Sdn Bhd; Scott Hastings, Sapura Energy*

This session will cover the pain points encountered and experienced by various drilling contractor, service contractor and other associated value chain in supporting and achieving the global net zero GHG emission target especially set by operators and countries. It is generally observed that small-medium players are moving at a slower pace in setting the carbon footprint reduction and sustainability target compared with the major players in drilling industry, and this gap is further divided between countries where these players operate. Business decision to remain competitive is one of the greatest challenges for these players to subscribe into the sustainability agenda of the oil and gas industry. The session will raise these challenges, trigger solutions, and raise the bar for the entire drilling industry value chain.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 4: Breakout Session**
Co-Chairs: *Mohd Abshar Mohd Nor, PETRONAS Carigali Sdn Bhd; Thirupathi Rao, PETRONAS; Zahris Sham Abu Musa, Schlumberger*

This breakout session will address challenges, best practices, and mutually agreed goals amongst participants to identify key takeaway points which will be featured in the milestones and roadmap. Keep a lookout for the breakout session topics!

1630 - 1700 hours Networking Break

THURSDAY, 25 NOVEMBER 2021

1300 - 1500 hours **Session 5: Group Presentation**
Co-Chairs: *Mohd Abshar Mohd Nor, PETRONAS Carigali Sdn Bhd; Thirupathi Rao, PETRONAS; Zahris Sham Abu Musa, Schlumberger*

This session will feature key takeaway points gathered during the breakout session and presented by participants in groups. Presentation materials will be included in the post-event materials.

1500 - 1530 hours Networking Break

1530 - 1630 hours **Session 6: Panel Session – Journey to Overcoming Challenges**
Co-Chairs: *Razien Ali, Halliburton; Salim Taoutaou, TCOFS LLC*

This session will share ongoing learnings and case studies of a company's journey in implementing or exploring 'green' drilling and wells engineering, and carbon footprint reduction strategies. Invited panel speakers will discuss key factors of this journey, such as timeline, commitments, and cost vs. project targets across all facets of well lifecycle – from the process, technology, and organisational structure that addresses operational excellence, business models implications, motivation and workforce alignment (including ways of working, contracting, and collaborative efforts with partners and suppliers).

1630 - 1700 hours Networking Break

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Logo and sponsorship title listed in workshop Technical Programme booklet	✓	✓	✓
Opportunity to insert sponsors' promotional materials (PDF or link) as downloadable resources in virtual event platform	2	2	

Workshop Guidelines

1. Documentation

- a. Presentation slides / Proceedings will not be published; therefore, formal papers and handouts are not expected from Discussion Leaders.
- b. Work in progress, new ideas, and interesting projects are sought.
- c. Resource documents may be provided as pre-reads and during the live event.

2. Workshop Deliverables

- a. An on-demand version of the live event sessions will be made available to registered participants only.
- b. Provision of the live event sessions and presentation materials by Discussion Leaders will signify their permission for SPE to do so.

3. Commercialism

In keeping with the Workshop objectives and the SPE mission, excessive commercialism in presentations are not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

4. Certificate of Attendance

All full access attendees will receive a certificate of attendance post event.

5. Continuing Education Units

This Workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the Workshop.

6. Code of Conduct

- a. SPE is committed to providing a professional, friendly and safe environment for all participants at its events, regardless of gender, sexual orientation, disability, race, ethnicity, religion, national origin or other protected class.
- b. This code of conduct outlines the SPE expectations for all participants, including attendees, speakers and sponsors. Cooperation is expected from everyone, and SPE will actively enforce this code throughout this virtual workshop.
- c. Participants will be provided with personalised credentials allowing them access to the virtual workshop. These credentials are personal and non-transferable. Non-registered individuals and minors will not be able to access the virtual workshop, unless upon prior agreement with SPE.
- d. SPE expects all event participants to help ensure a safe and positive experience for everyone. Unacceptable behaviour will not be tolerated during any portion of a meeting or event. Unacceptable behaviour includes but is not limited to:
 - Intimidating, harassing, abusive, discriminatory, derogatory or demeaning speech or actions.
 - i. Harmful or prejudicial verbal or written comments or visual images related to gender, sexual orientation, race, religion, disability or other personal characteristics, including those protected by law.
 - ii. Inappropriate contact including via electronic communications.
 - iii. The production or non-consensual sharing of harassing non-consensual photography or unwanted recording, including nudity and/or sexual images in virtual workshop (in any format, electronic or otherwise).
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 - vi. Photographing, video or audio recording of slides, oral or presentations without prior written permission from SPE.
 - vii. Violating the rules and regulations of the virtual event platform.
 - viii. Cybercrime and dubious online practises include but not limited to phishing, spamming, spoofing and cyberstalking.
 - ix. Inappropriate self-presentation or attire. Business casual dress code is preferred.

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 - ii. Restrictions from future SPE events.
- e. SPE reserves all rights to take any action to prevent and report violations of the Code of Conduct, including blocking access to SPE events. SPE cannot investigate reports of harassment or other misconduct during the virtual event but will inform the appropriate departments of the accused person's host institution about any such filed report.
- ## 7. Photography and Videography
- a. SPE encourages open and respectful discussion in the live event environment, participants are not allowed to post images or video online without obtaining permission. Participants are required to respect the privacy of others and refrain from any unauthorised or unwelcomed recording or photography, including recording of any direct or indirect interactions or electronic messaging. Participants are not allowed to take photos or videos of presentation materials shown without prior written consent by the presenter.
 - b. Recording of complete oral presentations is not allowed unless these are done by a professional entity that has been contracted for this purpose by or on behalf of the organiser. Photo taking and recordings within the live event environment for professional use is not allowed without obtaining prior written permission from SPE.

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