

ABU DHABI, UAE

SOFITEL CORNICHE

22~23 NOV 2023

# CTMC

Custody Transfer and  
Metering Conference

HIGHER SKILLS, BETTER MEASUREMENT



TEMPRETURE

PRESSURE

FLOW

DENSITY

PLC & SCADA

# CTMC Custody Transfer and Metering Conference

HIGHER SKILLS, BETTER MEASUREMENT

# CUSTODY TRANSFER

STRATEGIC CONFERENCE

# CUSTODY TRANSFER & METERING CONFERENCE



22~23 Nov 2023



ABU DHABI, UAE,  
SOFITEL  
CORNICHE.

AN EVENT BY  
**CITADEL  
ENGINEERING  
COMPANY**



## CTMC VISION AND MISSION



**CTMC** is a platform that provides opportunities for all stakeholders in the custody transfer and flow measurement industry to broaden their knowledge and discuss new techniques, as well as providing an opportunity for companies active in this field to gain direct access to primary stakeholders involved in detailing upcoming project plans, budget allocations, timelines, technical challenges and opportunities for your business.

Through a significant presence in each industry and geographical market our events leverage the latest insights to ensure they remain relevant and practical in today's business environment.

## PARTNERS &amp; SPEAKERS

- ABB
- FORCE Technology
- TÜV SÜD National Engineering Laboratory
- National Oil Corporation Libya
- KELTON
- Oil & Gas Systems Limited
- Baxter International
- Energy Exemplar
- DNV
- Ministry of Oil of the Republic of Iraq
- Basra Gas Company
- North Gas Company
- Intertek
- BP
- Krohne
- Emerson
- General Electric

## ABOUT UAE

The United Arab Emirates (UAE) is one of a kind key area, flanking the Gulf of Oman and overlooking the southern way to deal with the Strait of Hormuz, an indispensable travel point for world oil.

The economy of the United Arab Emirates is the second largest in the Arab world (after the Economy of Saudi Arabia), with a gross domestic product (GDP) of \$407.52 billion in 2022 (nominal).

About 96% of the country's roughly 100 billion barrels of proven oil reserves are located in Abu Dhabi, ranking number six worldwide. The UAE produces an average of 3.2 million barrels of petroleum and liquids daily.

Hydrocarbons continue to play a critical role in the UAE economy, with 30% of the UAE's GDP directly based on oil and gas industry and 13% of its exports.

## ABOUT ABU DHABI

The city of Abu Dhabi is the largest city in the United Arab Emirates (UAE) after Dubai. With a land area of 67,340 square kilometres, the Emirate of Abu Dhabi is also the largest emirate in the UAE, making up 87 percent of the total area of the UAE.

Abu Dhabi's economy is supported largely by natural resources. However, it is making efforts to diversify its economy by growing its non-oil knowledge-based sectors. The emirate of Abu Dhabi is ideally located for doing business with the rest of the world, with outstanding trade links with Africa, Asia and Europe.

The emirate is within an eight-hour flight of 80% of the world's population. For businesses looking to scale up, Abu Dhabi is the gateway to huge market opportunities, including emerging economies.



# WHAT WILL BE PRESENTED IN CTMC

## MINISTERIAL SESSION

The energy transition is driving many industries, including power and water utilities. What strategies do governments have in place to achieve net-zero? What are the challenges in implementing these strategies and how can they be overcome? Given the central role of Gas and Petroleum Products within so many industries, what steps are needed to futureproof electrical grids and Gas distribution systems and ensure utmost resilience?

The use of renewable energies has increased significantly over the past decade. However, this has led to a reduction in the amount of electricity generated by fossil fuels such as coal, gas and oil, thus reducing carbon emissions but also increasing costs for consumers.



## GLOBAL LEADERSHIP PANEL

As the world's population continues to grow and improve living conditions, the demand for gas and petroleum products will increase. At the same time, utility companies are under pressure to decarbonize their operations. Although renewable energy is getting more affordable and competitive, its intermittent nature poses significant implementation challenges. What will be the driving offset factors: storage technology advancements, reliance on natural gas or hydrogen, or demand side management? What is the role of new technologies in the energy transition and how can they help improve efficiency and decrease emissions? What will enable reliable and resilient green electricity and water networks of the future?



## INDUSTRY DEBATE

Flow computing has the potential to revolutionize the way we approach measurement systems, sampling and proofing. With this new platform, we'll need to check how OEMs will develop new methods and technologies that will allow government to better understand how their products are performing as they move through the supply chain. How Government also be able to work more closely with the partners, OEMs and customers to ensure that they have access to the best data possible.



# WHAT TECHNICAL INFORMATION YOU WILL RECEIVE

## DAY 1 FLUID AND GAS METERING SYSTEM AND FLOW METER TYPES

The oil and gas industry is one of the most challenging industries in which to work. The industry is reliant on technology innovation, as well as the ability to transfer custody of oil and gas from one company to another with minimal risk. The custody transfer process relies heavily on the principles of flow, pressure, viscosity, volume, continuity and energy law (Bernoulli's).



In the world of liquid flow measurement, there are a lot of options. If you're looking for an ultrasonic flow meter, you can use magnetic flow meters. Positive Displacement (PD) Flow Meters, Venturi nozzles, pitot tubes and Coriolis flow meters are also good options. Rotor, oscillating piston and oval gear are all viable solutions for differential pressure (DP) flow meters.

## DAY 2 FLOW MEASUREMENT SYSTEMS & CUSTODY TRANSFER

The purpose of flow meter calibration is to ensure that the flow meter is accurately measuring the quantity of product being measured. The flow configuration (flow profiles) must be known before calculating metering rates. Flows in pipelines are either laminar or turbulent.

It is important that this calibration be performed on a regular basis so that the flow meter will be accurate in measuring the correct amount of fluid being measured.

There are several different methods for calibrating a flow meter. The most common methods are master meter calibration, water draw calibration and gravimetric calibration.



# WHAT TO EXPECT IN CTMC

- 200+ ATTENDEES
- 20+ SPONSORS
- STRATEGIC PANELS
- TECHNICAL PANELS
- 30+ PANELISTS
- OPEN DISCUSSIONS
- TECHNICAL WORKSHOPS
- MANUFACTURER  
EXHIBITIONS
- SHOWCASE AND DEMOS
- BUSINESS WORKSHOPS
- GLOBAL SUPPLIERS
- INTERACTIVE EVENTS



In this intensive two-day program, you will gather new technology innovation ideas and create new connections within the metering community. You will learn about the latest innovations in metering. You can expect to hear from leaders in this field who will share their knowledge and experiences with you. This program is an excellent opportunity for professionals to meet people in their field, network with their peers, and discuss new ideas.



Attendees gain an appreciation of the technical and economic aspects of the metering industry, terminology, features of O&G environments, business cycle as well as the Global context.





**CTMC**  
HIGHER SKILL



A photograph of an industrial facility, likely a refinery or chemical plant, featuring a complex network of grey pipes, valves, and pressure gauges. A prominent vertical pipe in the center has a red label that reads 'FLOWSERVE'. The scene is dimly lit, with a blueish tint. In the foreground, there are several grey metal cabinets or control panels.

# Custody Transfer and Metering Conference

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**S, BETTER MEASUREMENT**



# INVITATION OF PANELISTS

## WHY TO BE A PANELIST

CTMC is a platform to bring together thought leaders with diverse perspectives, highlight Oil and Gas advocates, raise awareness and knowledge, and give us the opportunity to gather many business owners, technical entities, and governmental authorities to discuss the importance of metering and its' effect on the local and global market.

CTMC aims to be a global event where all stakeholders in the metering industry gather once every year in order to share their experiences, and find new solutions to challenges faced by them during their daily activities.

The main objective of the conference is to provide a platform for sharing knowledge, experience and best practices in order to have better measurement and export process that will bring the growth of economy in the region.

As a event organizer dedicated to quality, we want CTMC to be as high in quality as possible, hence we believe you can be an added value to this event. Your participation will help our development.



## OUR PART

We are thrilled to invite you to participate as our panelist and discuss any of the panel topics you prefer. You can find the panel subjects in the following section.

We understand that many people are busy and need to prioritize their time, so we want to make this process as easy as possible for you.

All you need to do is browse through the list of topics that interest you, select one or more topics and provide us with a title and abstract of your topic(s), then we will take care of the rest! More than one hundred companies and international brands will be participating in this year's event, including Honeywell, ABB, Baker Hughes, PetroWeld and Citadel Engineering Company. We invite you to join us and experience first-hand the innovative solutions that we have to offer!

## YOUR PART

We would be glad to hear your ideas and opinions about the event and the panels. We'd be also pleased to have you as our panelist. Please contact us on the Email below and we will refer back to you for further discussions. Please review the panel topics and the other attachments to have a clear vision of CTMC. We are looking forward to receive your kind confirmation.

### HIGHER SKILLS, BETTER MEASUREMENT





# CUSTODY TRANSFER & METERING CONFERENCE

**Date:**  
22nd\_23rd Nov. 2023

## CONTACT



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## PANEL TOPICS

### STRATEGIC PANELS:

1. **The effects of the Russia-Ukraine war on the supply chain**
2. **Regulatory rules on UAE standardization**
3. **Risks And Opportunities of The Region**
4. **Business Sustainability in Middle East**
5. **Gas Export and Difficulties**
6. **International Oil Companies Impact on Standardization Process**
7. **The outlook on Region's energy sector development, Strengths, and weaknesses.**

### TECHNICAL PANELS:

8. Innovation and examples of innovative technologies in Metering
9. Challenges in adopting new technologies in Metering Systems
10. Fiscal Flow Measurement in the Real World
11. Full Insight into Coriolis Flow Meters
12. The Influence of Time Delays on Certain Systems
13. Chromatographs and Gas Metering Systems
14. Proving Systems, Indirect, Master Meter, Volume

**In case you want to suggest any other related topic, please don't hesitate to send us an Email and share your ideas with us.**

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<http://ctmc.tech>

# WHO WILL BE THERE



As the largest conference of its kind focusing on metering technology, CTMC 2023 will provide space for more than a hundred companies and international brands to participate and showcase the value they can bring to the industry.

The event will include presentations from leaders in the field of metering technology, including keynote speeches from experts in their fields. There will also be opportunities for attendees to network with other professionals and make connections that can help grow their business or career.

## THIS CONFERENCE IS IDEAL FOR

- REGULATORY BODIES
- PROFESSIONALS AND ADVISORS
- CONTRACTORS
- O&G BUSINESS OWNERS
- METERING ENGINEERS
- EPC CONTRACTORS
- INTERNATIONAL OIL COMPANIES
- GAS OPERATORS
- ENDUSER AND CUSTOMERS
- GAS DISTRIBUTION COMPANIES



**I'D PUT MY MONEY ON THE SUN AND SOLAR ENERGY. WHAT A SOURCE OF POWER! I HOPE WE DON'T HAVE TO WAIT UNTIL OIL AND COAL RUN OUT BEFORE WE TACKLE THAT.**

*Thomas A. Edison*





● IOCs

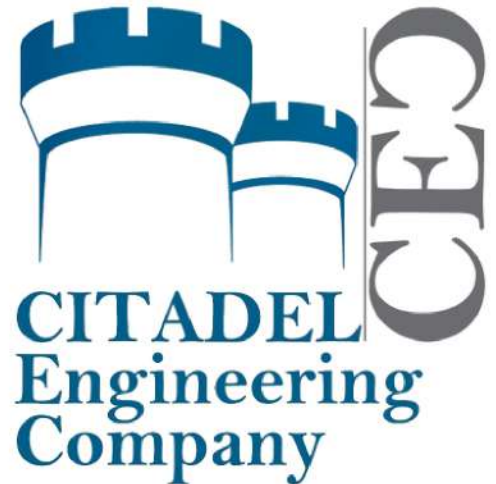
● OEMs

● EPCs



SPONSORS

**SPONSOR**



## **CITADEL ENGINEERING COMPANY**

**CITADEL ENGINEERING COMPANY IS AT THE FOREFRONT OF ENGINEERING INNOVATION.**

**WE BRING TOGETHER CUTTING-EDGE TECHNOLOGY, EXPERT KNOWLEDGE, AND A PASSION FOR PROBLEM-SOLVING TO DESIGN AND EXECUTE PROJECTS THAT SHAPE INDUSTRIES AND DRIVE PROGRESS.**

Citadel Engineering Company, a global leader in innovative Engineering, Inspection, Calibration, and Sustainability solutions, has established itself as a trusted and prominent name in the TIC (Testing, Inspection, and Certification) industry. With a steadfast commitment to excellence and sustainability, the company's growth and reputation have been remarkable.

Originally incorporated in the USA in 2015 as the Engineering, Calibration & Inspection Body, the company embarked on its journey by participating in various development projects within the USA and Europe. Over time, Citadel's scope evolved into Citadel Engineering Company, with a refined structure consisting of five distinct business segments: Inspection, Calibration, Testing, Engineering, and Training.

The company's success story is a testament to its unwavering commitment to quality, sustainability, and continuous growth on a global scale.



# SPONSORS



## OGS

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For over 30 years, OGS has specialised in the design and supply of high quality bespoke engineered systems for the oil, gas and power industries and continues to provide highly technical and innovative solutions to its global client base, maintaining its reputation for unparalleled quality and service.

From our Engineering and Project Management offices in Ely, Cambridge, and Fabrication and Assembly facility in Swansea, South Wales, OGS undertakes the complete design and supply of skid mounted or packaged equipment.

Since 1989, OGS has supplied to satisfied clients throughout the world. They are renowned for delivering high quality engineered solutions for critical applications often within short delivery times



## KELTON

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Since 1991, Kelton has helped many international and national operators to ensure their full flow measurement compliance with industry regulations. KELTON's priority is to maximise the value and efficiency of our customer's energy assets – from concept to operation and beyond. As a United Kingdom Accreditation Service (UKAS) accredited inspection body, Kelton will fully assess your measurement system – regardless of the stage in development, and can issue a measurement compliance certificate in line with ISO/IEC 17020 upon successful audit completion.

This proves to all stakeholders that you have selected appropriate equipment, it is operated and maintained sufficiently to provide the best uncertainty of hydrocarbon measurement, and it conforms to the relevant standards, guidelines and commercial agreements.



# beamex

## BEAMEX

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Beamex serves as a reliable partner for calibration excellence, delivering precise measurements, dependable data, and traceability to contribute to a safer and more predictable world. Since its establishment in 1975, Beamex has consistently been a trusted collaborator in the pursuit of calibration excellence, empowering customers to enhance efficiency, maintain regulatory compliance, and elevate safety standards within their operations.

Beamex offers a comprehensive range of calibration solutions, encompassing field and workshop calibration, calibration management, and related services. With a longstanding commitment to quality and customer satisfaction, Beamex plays a vital role in ensuring that calibration processes meet the highest standards and enable organizations to operate with confidence and precision.



## NEXT ENGINEERING

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NEXT represents a key selection of world leading manufacturers and service companies. Our clients in Middle East are provided with comprehensive specialized engineering support from our local team to supplement and enhance the links with our suppliers.

NEXT represents a key selection of world leading manufacturers and service companies. NEXT's clients in Middle East are provided with comprehensive specialized engineering support from local team to supplement and enhance the links with our suppliers. This close support keeps both our partners and NEXT ahead of the competition.

NEXT's solutions help clients across the energy value chain achieve operational excellence by enhancing safety, increasing efficiency, reliability and profitability.

# SPONSORS

## SENSIA

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**SENSIA**  
Rockwell Automation + SLB

SENSIA represents the fusion of sensing, intelligence, and action in the realm of industrial automation. It brings together the exceptional capabilities of two industry giants: the trailblazing process automation, real-time control, and IoT technologies from Rockwell Automation, combined with the unparalleled expertise in measurement and instrumentation, software, and analytics offered by Schlumberger.

This powerhouse, known as Sensia, is further enriched by the extensive knowledge and experience in the oil and gas domain, as well as artificial lift expertise, shared by Rockwell Automation and Schlumberger.

Sensia's mission is to democratize the benefits of large-scale digitalization and seamless automation, making these advantages accessible to every energy company.

Sensia's comprehensive solutions span across operations, optimizing production, enhancing efficiency, and reducing costs. Simultaneously, it champions sustainability and compliance by effectively managing ESG risks.

## OIL&GAS MIDDLE EAST

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**Oil&Gas**  
MIDDLE EAST

Oil & Gas Middle East is a leading source of news and comprehensive analysis within the upstream sector of the Middle East region. It plays a pivotal role as a hub for the oil and gas industry by utilizing both print and digital platforms. By offering the latest news and in-depth insights, it serves as a prominent meeting point for professionals and stakeholders in the oil and gas field.

Oil & Gas Middle East holds a distinguished position as the primary source of information for industry leaders and professionals. Its coverage extends to a wide range of topics including exploration, drilling, production, technological advancements, market trends, policy changes, and more, ensuring that it remains at the forefront of knowledge and expertise in the Middle East's upstream sector.



# SPONSOR



## ABB

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**ABB IS A LEADING GLOBAL TECHNOLOGY COMPANY THAT ENERGIZES THE TRANSFORMATION OF SOCIETY AND INDUSTRY TO ACHIEVE A MORE PRODUCTIVE, SUSTAINABLE FUTURE. BY CONNECTING SOFTWARE TO ITS ELECTRIFICATION, ROBOTICS, AUTOMATION AND MOTION PORTFOLIO, ABB PUSHES THE BOUNDARIES OF TECHNOLOGY TO DRIVE PERFORMANCE TO NEW LEVELS.**

Building on its strong positions in Electrification, Motion, Process Automation, and Robotics & Discrete Automation, ABB aims to create superior value for all its stakeholders. With the company's purpose at its core, the way ABB operates – the ABB Way – serves as the lever to implement its strategy. By pushing the boundaries of technology and embedding sustainability in everything it does, ABB's people drive the performance of its businesses to new levels.

Together with their common values, strong brand, and governance framework, the ABB Way provides the foundation to execute as a focused, successful, value-creating company.

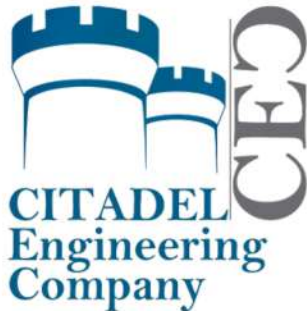
ABB's world-class technology and domain-led digital capabilities are deeply embedded in its DNA. Maintaining and improving innovation, technology, and digital leadership is a strategic priority across divisions. Pushing the boundaries of technology enables ABB to help its customers attain new levels of performance and clearly differentiate ABB's offerings.



# PARTNERS AND PARTICIPANTS



# PARTNERS AND PARTICIPANTS

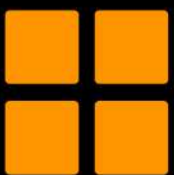


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# HAPPENING AT THE SAME TIME: FORMULA 1 MOTOR RACING



**ABU DHABI GRAND PRIX  
24 - 26 NOVEMBER  
2023**





**TRACK:**  
**YAS MARINA CIRCUIT,**  
**ABU DHABI, UAE**

  
**YAS** MARINA  
CIRCUIT  
حلبة ياس



Coming news - CTMC 2024



# CTMC 2024

## SCOTLAND | ABERDEEN

Aberdeen, located in Scotland, has historically been a significant hub for the oil and gas industry. Often referred to as the "Oil Capital of Europe," the city's oil and gas sector has played a pivotal role in the UK's energy landscape. However, the state of the oil and gas industry in Aberdeen has evolved over the years, and its current status is influenced by a combination of factors.

Aberdeen's association with the oil and gas industry dates back to the discovery of North Sea oil reserves in the 1960s. The subsequent boom in offshore drilling and production activities contributed significantly to the city's growth and prosperity.

In recent years, the industry has faced various challenges, including fluctuating oil prices, aging offshore infrastructure, and environmental concerns. This has led to a need for innovation, cost reduction, and increased focus on sustainability.

Aberdeen's oil and gas sector has recognized the importance of diversification. The city has been working to expand its expertise and facilities into renewable energy sources, such as offshore wind and hydrogen, to reduce its reliance on traditional hydrocarbons.

Aberdeen's oil and gas expertise extends beyond the UK. Many companies based in the city are involved in international projects and provide services globally.

