Abstract submission information pack

Energy Institute’s international
Middle East HSE and Sustainability Week

People | Innovation | Collaboration | Policy
INTERNATIONAL GOOD PRACTICE AND LEARNING

Dubai, UAE
Why submit an abstract?

This week will bring together two conferences, focusing on HSE and sustainability, to deliver essential learning and sharing of international good practice to organisations across the energy industry.

Drawing on the century long expertise of the Energy Institute in supporting industry collaboration and good practice, this programme will focus on themes in the context of:

- **People** - the impact of this fast-changing industry
- **Innovation** - as the means for change or as a driving force for change
- **Collaboration** - to share learning
- **Policy** – informing on policy development

**HSE Forum**
This forum will deliver essential learning and sharing of international good practice to improve the safety performance of organisations, help foster a healthy and accident-free work culture that reduces risks, and aid organisations to implement a sustainable environmental and public engagement policy as they navigate the transition to a low carbon economy.

**Sustainability Forum**
This forum will support sustainable generation and energy use by sharing international good practice. It will bring together academia, industry and regulators to explore common technical challenges and solutions facing the sustainability community in the Middle East and will help organisations, energy generators, users and distributors to reduce their carbon footprint and improve sustainability.
**HSE Forum**

This conference will be of interest to anyone working in:

- HSE and process safety
- Operations
- Risk assessment, compliance and audit
- Occupational health and wellness
- Medical prevention and emergency response
- Environmental protection
- Control and monitoring

The conference will enable the learning from across all sectors and sharing of good practice, and offer excellent networking opportunities with delegates from around the world representing operating companies, product and service suppliers, consultancies, regulators and academia.

**Sustainability Forum**

This conference will be of interest to anyone working in:

- Energy managers/directors/advisers
- Engineers
- Sustainability specialists
- Clean energy specialists
- Environmental managers/analysts
- Facilities managers/officers
- Sustainability managers/directors
- Head of innovation and technology
- Energy consultants
- HSE advisers/managers/officers
- Corporate responsibility managers
- Operation managers
- Procurement specialists
- Compliance specialists
Abstract Topics

HSE Management
Organisational arrangements to identify hazards, reduce risks and enhance business performance

• Developing an HSE-oriented culture (e.g. leadership accountability, action and communication)
• Contractor and supplier management across plant lifecycle phases (e.g. construction through to operational phase monitoring and decommissioning)
• Implementing and optimising HSE management systems (integrating process safety and human factors in existing HSE management system)
• HSE management system interfacing in long-term partnerships, term contractors, etc.
• Integrating HSE into wider business strategies and processes
• Policies, processes and guidance for HSE management
• Workforce engagement as an indicator of HSE cultural maturity
• Measuring the success of HSE management (e.g. audits, review, performance indicators, benchmarking)
• Key risk areas: road safety, falls from height, remote working
• New decarbonisation technologies – what are the HSE risks?
• The role of digitalisation – how can it enable improvements in safety?
• Public engagement policy
• Other topics will be considered

Health and wellbeing
Managing health hazards and reducing negative health impact on workers

• Occupational hygiene and health – what is the scale of the issue?
• Managing simultaneous health risks (e.g. heat, humidity and smog)
• Workplace heat stress
• Working in a hot environment
• Impact of worker fatigue on health (e.g. measuring fatigue, optimising work patterns, measuring performance degradation)
• Physical performance capability of an ageing workforce
• Employee mental health – what are the signs, where are the boundaries of responsibility?
• Improving the competences of remote healthcare professionals
• Role of health practitioners in communicating health management pre-employment, during employment and for retirement
• The partnership between occupational health and medical practitioners in health management
• The health risk associated with using technologies that transmit radiofrequency radiation (RF)
• Presence of toxic, flammable and explosive substances from the introduction of new energy technologies, e.g. biofuels, biomass, coal processing, batteries, etc
• Exposure to toxic chemicals and metals during manufacture, disposal and recycling
• Exposure to loud noise and vibration tools
• Health promotion and education programme within the workplace
• Wellbeing of offshore workers
• Tackling stress management
• Management of personal health, such as diet, exercise/physical activity, smoking behaviour, alcohol consumption and healthy eating
• The importance of medical personnel, such as supporting in terms of training, resources, investment and release from ancillary duties unrelated to health management
• Health surveillance and recording illness and injury
• Use of data management and analysis
• Other topics will be considered
Abstract Topics

Process Safety

Managing hazards that have the potential to cause major accidents

- Applying inherent safety, hazard identification and risk assessment procedures and implementing control measures
- Risk analysis (e.g. cumulative risk, functional safety, land use planning)
- Enforcement strategy in incident investigations
- Managing safety critical devices to prevent or recover from major accidents
- Managing process hazards (e.g. fire and explosion, ignition sources, overpressure)
- Managing change (e.g. temporary change, creeping change, organisational change, operational regime)
- Ageing plant/asset integrity (e.g. adjusting inspection for ageing)
- Process safety across plant lifecycle phases (e.g. design, decommissioning)
- Processes for learning from incidents and adopting lessons learnt
- Start-up safety reviews for new plants or after modification
- Electrical risks from installing and operating smart grids to electrical distribution technologies
- Arc flash electrical risks
- Carriage of dangerous good by road and sea, e.g. LNG shipping and terminal operations
- Understanding the issues with fire safety of new energy technologies e.g. battery storage, biofuels, biomass and coal handling
- The risk of fires from smart grids
- Fire and explosion caused by gas leakage during production, manufacturing, blending, transportation, storage and use
- Opportunity of digitalisation and artificial intelligence vs. threat of cybersecurity
- Hazards and risks reduction measures for decarbonisation technologies such as hydrogen, LNG, CCUS

Human Factors to deliver human performance

Designing fit-for-purpose process jobs and equipment

- Adapting international safety initiatives to local operations, where the culture may differ
- Human factors and learning from incidents
- Demonstrating leadership through employee welfare
- Bridging procedures from training to operations, and communicating them in multiple languages
- Integrating human factors in workplace design
- Assessing human risk (e.g. using safety critical task analysis) competence management systems and assurance
- Non-technical competencies for technical specialists
- Capturing and recording knowledge from experienced personnel
- Barrier management – barrier ownership and bringing barriers to life
- Considering human factors issues when introducing new decarbonisation technologies (e.g. human-machine interface, training requirements and automation)
- Representing human factors in bow ties – barriers or safeguards?
- Managing organisational skills gaps
- Integrating human factors into design, whether capital projects, for new technologies or for plant changes
- Public engagement policy
- The use of digital technologies to improve the efficiency of our work processes
- Other topics will be considered
Abstract Topics

Environmental

Processes for mitigating environmental impacts

- Methodologies for assessing risks to receptors (e.g. land, air, water)
- Environmental management systems
- Managing environmental critical elements to prevent or recover from a major accident to the environment
- Reducing hydrocarbon losses (e.g. process emissions)
- Competence of personnel in environmental management
- Transition towards a low carbon economy
- Other topics will be considered

Sustainability and climate change: processes and policies driving sustainability in a lower carbon world

- Transition to a low carbon economy
- Sustainable energy strategies
- The implementation of the sustainable development goals
- Decentralised energy
- Carbon reporting
- Climate change adaption
- Carbon management
- Sustainability reporting
- Knowledge, skills and experience management (e.g. sustainability skill map, skills of a sustainability leader, skills gaps)
- Legislation, standards, guidance and reporting (e.g. demonstrating sustainability)
- How organisations are adapting and changing in response to climate change
- Public policy engagement
- Legislation, standards, guidance and reporting (e.g. demonstrating sustainability)
- Green finance and investment
- Other topics will be considered

Mitigating climate change: providing insights on the business case for investing in energy efficiency and renewable energy projects

- Methodologies for assessing risks to receptors (e.g. land, air, water)
- Environmental management systems
- Managing environmental critical elements to prevent or recover from a major accident to the environment
- Reducing hydrocarbon losses (e.g. process emissions)
- Competence of personnel in environmental management
- Transition towards a low carbon economy
- Other topics will be considered

Technology and innovation: showcasing new tools and innovative technologies

- Innovative solutions for efficient use of natural resources
- Enterprise risk management
- New technologies
- Digitalisation and climate change – how are they interlinked? What does it mean for how we work?
- R&D
- Uberisation
- Emissions reduction strategies, including carbon management and new technologies, such as carbon capture utilisation and storage (CCUS)
- Other topics will be considered
Abstract Topics

Processes aimed at resource management and prevention

- Waste management reduction
- Water management (e.g. impact of processes on water) and availability of water
- Natural resources management (e.g. land, soil, plants and animals)
- Understanding environmental science and its contribution and development in the world that we live in
- Human activities and their influence
- Energy management and conservation
- Air quality management
- Measuring the inventory of greenhouse gases (GHGs)
- Waste management across plant lifecycle
- Other topics will be considered

Processes aimed at driving energy efficiency best practice

- Energy management in practice (e.g. compliance with standards, determining and improving energy management culture)
- Competence in energy efficiency
- Energy saving and reduction
- Sustainability in environmental management systems
- Energy auditing
- Complying with regulations and policies when delivering effective strategies in energy management such as ISO 50001
- Other topics will be considered
About us

Energy defines modern life. It lights, heats and cools our businesses and homes, it gets us from A to B, and it is increasingly safe, sustainable, reliable and affordable.

But the story of energy is only part told. Shifting to low carbon at the same time as opening up access for the world’s growing population is one of the most pressing challenges facing humanity.

Ingenious people - innovators, entrepreneurs, scientists and engineers – make all of this possible.

The Energy Institute (EI) is the professional membership body bringing global energy expertise together.

We’re a unique network with insight built over a century and spanning the world of energy, from conventional oil and gas to the most innovative low carbon and energy efficient technologies.

We gather and share essential knowledge about energy, the skills that are helping us use it more wisely, and the good practice that keeps it safe and secure.

We articulate the voice of energy experts, taking the know-how of around 20,000 members from 120 countries to the heart of the public debate.

And we’re an independent, not-for-profit, safe space for evidence-based collaboration, an honest broker between industry, academia and policy makers.

The EI is here for anyone who wants to better understand or contribute to the extraordinary energy system on which we all depend.

energyinst.org @EnergyInstitute
Abstract submission deadline: 10 May 2020

The abstract proposals must be a maximum 450 words in length. All proposals should be written and presented in English. No additional attachment will be accepted.

Please summarise the author's experiences and qualifications of this abstract by submitting their career biography within the abstract form, which cannot be more than 250 words in length. CV will not be accepted.

Submit your abstract online by 10 May 2020.

Do not include title or author names in the body of the abstract.

Please note that, if accepted, your abstract proposal may be published, as submitted, in conference information media, including the Energy Institute website.

We expect authors to credit all sources used in their writings and not to represent work of others as their own.

The Energy Institute will not accept inclusion of commercial trade names, company logos, or text that is commercial in tone in the paper title, text, or slides.

Under no circumstances can a submitted abstract be changed once it has been submitted.

Speakers must pay to attend. The EI will not cover speaker expenses.

You must obtain necessary clearance and travel approval from your management.
Copyright
All authors of papers presented at the conference will be required to complete and submit a copyright release form to Energy Institute or submit the copyright exemption form where applicable.

Changes, cancellations and withdrawals
The Energy Institute and the Programme Board consider an accepted abstract as a commitment to present.

If extenuating circumstances prevent the author from making the presentation, it is that author’s obligation to find an alternate presenter and notify Energy Institute in writing as soon as possible.

What happens next?
The Programme Board will review the abstract on the basis of their alignment to the conference themes, creditability and relevance to the Middle East region.

The Energy Institute will inform those who have submitted abstracts on whether their abstract has been accepted.
For further information about the event and speaking, sponsorship and exhibition opportunities, please contact Alexander Bassey:

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