

SPE Virtual Workshop: Marginal and Mature Field Management

24–26 May 2022 | VIRTUAL [UTC+8]



Sign up before 22 April 2022 for
Early Bird savings!

Who Should Attend

- Asset Development and Management
- Facilities and Process
- Field Development Planning
- Geology and Geophysics
- Integrated Operations
- Production Engineering
- Production Surveillance
- Reservoir Engineering
- Reservoir Management
- Strategic Planning
- Sustainability
- Techno-Commercial
- Technology and Innovations
- Venture Capital

In May 2021, IEA produced the world's first comprehensive energy roadmap to net zero emission in 2050. In this scenario, fossil fuels fall from almost four-fifths of the total energy supply today to slightly over one-fifth. Global energy demand is 8% smaller than today but serves an economy of more than twice as big with an incremental 2 billion global population. With this imminent new future approaching, the burning question for the industry is, therefore: "How will our existing assets fare, particularly mature and marginal fields, and how do we prepare ourselves to adapt and thrive?"

This workshop will focus on safely maximising value creation from mature and marginal greenfield assets across Asia Pacific, which will continue to play a pivotal role in supporting resource assurance as the energy industry undergoes transition. Major topics to be explored include:

- Mature fields in the energy transition – complement or compete?
- Carbon capture, utilisation, and storage (CCUS) applications, and areas of enhancements and overlap with existing fields.
- Costs and commerciality for mature field life extensions and viability of marginal field developments.
- Technology updates and production enhancement solutions to maximise field recovery.
- Enablers to ensure the right assets are in the right hands.

This workshop targets key executives and decision makers in technical and commercial development for our industry to continue to remain resilient through the energy transition. Key values to be considered as enablers are:

- **Grow:**
 - Adapting to change. The exit of IOCs and the emergence of new regional or niche companies with expertise in marginal resources. (\$12 billion assets are up for sale in Asia Pacific, according to research from Rystad)
- **Lead:**
 - Innovation in CCUS technology and optimisation in cost could enable late-life fields to lead decarbonising solutions.
 - Creativity and innovation in fit-for-purpose technology to improve recovery factors to extend the life of marginal field development.
 - Empowerment and increased trust between host authority and companies through fit-for-purpose regulatory requirements and procurement processes that promote agility in decision-making and cost/value optimisation.
- **Collaborate:**
 - More holistic integration of the value chain will enable improved efficiency and lower cost through improved commercial models (such as outcome-based) or new partnerships.
 - Diversity, equity, and inclusiveness to be promoted. This includes hiring, key management representation of companies, and incentivisation by host authorities.
- **Care:**
 - Late-life fields could emerge as CO₂ storage clusters, providing an opportunity to pivot and generate an additional revenue stream to support decarbonisation
 - Sustainable solutions in new marginal field construction and decommissioning

Session Highlights

Zero-Carbon, Energy Transition, Sustainability | Exploring New Solutions, Technologies, and Case Studies | Cost, Financial, Commerciality

Production, Attainability, and Delivery | The Right Asset in the Right Hand | What Would the Industry Look Like After Energy Transition?

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

go.spe.org/23WM01W

Workshop Objectives

This workshop will focus on safely maximising value creation from mature and marginal greenfield assets across Asia Pacific, which will continue to play a pivotal role in supporting resource assurance as the energy industry undergoes transition. Major topics to be explored include:

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- Technology updates and production enhancement solutions to maximise field recovery.
- Enablers to ensure the right assets are in the right hands.



Bespoke, expert-led technical topics



Knowledge sharing and technical discussions



Peer-to-peer networking opportunities



Technical Programme Committee

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Discovered Resource Arrangements, Resource Development Management, Malaysia Petroleum Management
PETRONAS



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Subsurface Technical Lead Asia Pacific
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PT Pertamina Persero

Nuddanet Sikharin
Reservoir Engineer
PTTEP

Vichai Tachavarakul
AIM Team Leader
Mubadala Petroleum

Eugene Ong
Inside Sales Manager
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Programme Schedule

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

TUESDAY, 24 MAY 2022	
1300 - 1315 hours	Welcome Remarks by Workshop Co-Chairs
1315 - 1330 hours	Keynote Address
1330 - 1430 hours	Session 1: Panel Session - Zero-Carbon, Energy Transition, Sustainability
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2: Exploring New Solutions, Technologies and Case Studies
1630 - 1700 hours	Networking Break
WEDNESDAY, 25 MAY 2022	
1300 - 1430 hours	Session 3: Cost, Financial, Commerciality
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4: Production, Attainability, and Delivery
1630 - 1700 hours	Networking Break
THURSDAY, 26 MAY 2022	
1300 - 1430 hours	Session 5: The Right Asset in the Right Hand
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 6: Panel Session - What would the industry look like after the energy transition?
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, 24 MAY 2022

1300 - 1330 hours **Welcome Remarks and Keynote Address**

1330 - 1430 hours **Session 1: Panel Session - Zero-Carbon, Energy Transition, Sustainability**
Session Managers: *Vichai Tachavarakul, Mubadala Petroleum; Ikmal Hisham Maharon, PETRONAS; Eugene Ong, Ranhill Worley*

This session will focus on how the energy sector holds the key to unlocking the solutions we need to tackle zero-carbon, energy transition, and climate sustainability. You will hear from industry practitioners on practical and innovative ideas our industry is embarking on in the transition to decarbonisation, without losing sight of safety first. Our society not only needs to rapidly switch to decarbonising, we also need to transform rapidly so the rest of the world can transition into a net-zero carbon economy. This is a key goal in our hopes to mitigate the devastating impacts of climate change, which is becoming more and more evident. Almost every other sector – including petrochemicals, energy, transportation – is dependent on a decarbonised energy sector to achieve net-zero goals. It is critical for the oil and gas industry to lead the change by decarbonising and rapidly increasing its capacity to impel the energy transition For the industry. Zero emissions and carbon neutrality are not just national projects, they are global and underscored by the United Nations Framework Convention on Climate Change (UNFCCC) Paris Agreement. We need to recognise that this cannot be achieved without a robust global and national stakeholder engagement collectively.

Renewable energy technologies (like solar PV, onshore wind, offshore wind, and hydro) and negative emissions technologies (such as carbon capture and storage) will need to see a huge investment to reach net-zero by 2050. Can NOCs and IOCs invest and profit from a green energy economy? To address this, we need bottom-up solutions and top-down efforts.

Government policies and incentives for energy companies' first movers are critical. It is important to recognise investors' need, reliability, and predictability when it comes to policies and regulations. Discounted rates on green bond financing, tax exceptions – typically associated with the development of critical infrastructures – are required for investors to develop sustainable projects. Once the benefits are realised, they will be followed by immediate, rapid, and large-scale projects.

What we need is a once-in-a-generation infrastructure effort to reach the sustainability objective. If we act now, we can succeed.

1430 - 1500 hours Networking Break

TUESDAY, 24 MAY 2022

1500 - 1630 hours

Session 2: Exploring New Solutions, Technologies, and Case Studies**Session Managers:** Mohd Nazli Abdul Razak, **PETRONAS**; Robet Wahyu Widodo, **PT Pertamina Hulu Energi**; Debby Halinda Utamingdiah S, **PT Pertamina Persero**

Flexibility and creative business solutions are the only way to make mature and marginal fields' development economically attractive while maximising value creation as the energy industry undergoes transition to achieve net-zero emission. With the discovery of hydrocarbon, project risks are low compared to the risks of an exploration project, but the challenge is to find a highly cost-effective field development solution and mechanism to eliminate emissions from the required elements in the value chains where emissions reductions are most challenging.

This session will walk you through the challenges, innovation, and technologies in developing mature and marginal fields with fit-for-purpose designs and decarbonising solutions. You will find that various concepts may offer an interesting solution and give further advantages for a more cost-effective development, yielding an acceptable return in economics.

1630 - 1700 hours

Networking Break

WEDNESDAY, 25 MAY 2022

1300 - 1430 hours

Session 3: Cost, Financial, and Commerciality**Session Managers:** Zamri Abdul Ghapor, **ExxonMobil Exploration & Production Malaysia Inc**; Safwan Ruslan, **PETRONAS**; Chua Hing Leong, **PETRONAS Carigali Sdn Bhd**

Marginal and mature field management poses a significant monetisation challenge and risk to commensurate maximum return. From all aspects, be it technical, cost, financial and commercial, the oil and gas industry has to continue to evolve by finding new, innovative approaches to increase the development viability of marginal and mature fields, and to continue to be economic in its operation phase far longer than the typical marginal field life. This is important to ensure these assets to have a fair priority in the portfolio and receive the funding allocation.

This session will have an in-depth discussion, sharing best practices and insights on various aspects of marginal and mature field development, production, and abandonment that covers:

- Solutions that have been implemented to overcome monetisation barriers
- Reducing cost and finding solutions that turn liabilities into an advantage
- Innovative approaches and solutions to develop these assets at low cost whilst ensuring low carbon emission
- Fit-for-purpose commercial, financial, and technology arrangement
- Application of carbon credits or price for project economics evaluation as part of sustainability strategy
- Commercial strategy to adopt for CCUS project sanction
- Financing strategy to fund the development of the marginal and mature field
- The need/requirement for adjustment or formulation of suitable commercial framework and other parts of the ecosystem

1430 - 1500 hours

Networking Break

1500 - 1630 hours

Session 4: Production, Attainability, and Delivery**Session Managers:** Chaowarit Lophongphanit, **PTTEP**; Nuddanet Sikharin, **PTTEP**

Energy transition is now happening rapidly due to concerns on global warming, with renewable energies being developed faster compared with the past. To accelerate the oil and gas marginal and mature field development, resource maximisation and cost spending efficiency are necessary to be considered throughout the field life, starting from exploration to project decommissioning.

This session will explore case studies and insights in the following topics:

- Lean exploration activities by utilising existing information, such as subsurface data sharing with nearby block
- Maximise hydrocarbon resources from behind casing opportunity with low development cost
- Utilise nearby existing facilities for production tie-in
- Find cluster development for CAPEX optimisation
- Apply fit-for-purpose concepts to new facilities and well designs
- Cost-sharing or combined campaign between nearby fields (such as drilling rig, WHP installation, barge, equipment spare part)
- Optimise operation and maintenance programmes (such as equipment lifetime extension, minimise equipment replacement)
- Consider the facilities design that can easily be reused or to reduce the time for decommissioning
- Maximise the value of existing facilities (such as WHP topside reuse)

1630 - 1700 hours

Networking Break

THURSDAY, 26 MAY 2022

1300 - 1430 hours

Session 5: The Right Asset in the Right Hand**Session Managers:** *Craig Howat, **Jadestone Energy**; Nor Aisyah Borhan, **PETRONAS***

This session will focus on understanding the importance of having the right operator/asset owner in managing and fulfilling requirements for individual fields. This includes an in-depth discussion on requirements and approaches required by mature and marginal fields compared to prime producing fields. The changes in managing assets at different lifetime requires a holistic look at Operation & Maintenance (O&M) philosophy, a heavier focus on field/asset abandonment strategy, and high reliance on technology to maximise production from mature fields. To achieve that, operators with niche/certain skill sets are required to ensure the mature and marginal fields can be managed to its full potential.

This session will also cover regulatory aspects on asset sales, as well as the requirement for developing suitable policies for smaller vs. larger companies – an important enabler in finding the “right hand” for the right asset.

1430 - 1500 hours

Networking Break

1500 - 1630 hours

Session 6: Panel Session - What Would the Industry Look Like After Energy Transition?**Session Managers:** *Mohd Amri Mohd Diah, **PETRONAS**; Mohd Zulkifli Omar, **PETRONAS Carigali Sdn Bhd**; Grace Stephani Titaley, **PT Pertamina Hulu Energi***

The increasing social and environmental pressures on many oil and gas companies raised complex questions about the role of fuel in a changing energy economy and the position of these companies in the societies in which they operate. The COVID-19 pandemic-induced lockdowns and related global recession in 2020 have created a highly uncertain outlook for the labour market, which accelerated the arrival of the future of work in the form of IR 4.0. On the other side, some mature and marginal fields will be left behind with their remaining hydrocarbon potential.

This panel session will put a crystal ball on what the future will look like, with an expert panel of speakers covering these topics, but not limited to:

- To look at the future, we should also learn from the past: How has the industry changed and transitioned over the years? Was the transition seamless? Has there been disruptors the likes we are seeing now? Are there a similarities worth looking at?
- Future Energy Mix: Will the future energy mix be hybrid? Will renewables be the primary source or supplementary source? Will the adoption of environmental, social and governance (ESG) metrics play a role?
- Human capital - Upskilling and Capabilities: Will automation take over? It is predicted that an estimated 65% of children in primary education today will end up working in jobs that haven't been created yet – what will this mean? Will oil and gas become a niche industry?
- Next-generation – how will it be for them? Will our future be more like Wall-E? Technology is already a big part of the current younger generation, and social media is already a norm today. What would be the future norm be and how much technology changes will determine our future?
- Existing assets, marginal greenfield, and mature fields: Will this be the end of oil and gas production? Several oil and gas companies are increasing their efforts to decarbonise their operation and value chains. Will they continue to acquire and divest assets, optimising their portfolios to meet financial objectives and respond to pressures from investors?

1630 - 1700 hours

Networking Break

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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.
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SPE VIRTUAL WORKSHOP:
Marginal and Mature Field Management
 24 – 26 May 2022 | 1300 hours (UTC +8)



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Do you wish to be considered a Discussion Leader (10-15 minutes presentation)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
If yes, please indicate the subject/topic on which you would like to present:					
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Please state your Technical Discipline (Select one ONLY):					
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Please state your expectation for the virtual workshop, so that we can tailor a portion for the virtual workshop to answer attendees' concerns.					
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REGISTRATION CATEGORY						
Description		Fee Per Person			Tick (✓)	Amount (USD)
		Super Early Bird By 18 March 2022	Early Bird by 22 April 2022	Standard after 22 April 2022		
Workshop	Member	USD 420	USD 470	USD 520		
	Non-Member	USD 520	USD 570	USD 620		
Group Registration - Register 5 save 25%, Register 10 save 30% (Refer to Group Registration Form or contact apweb@spe.org for more information)						
TOTAL AMOUNT (USD)						

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