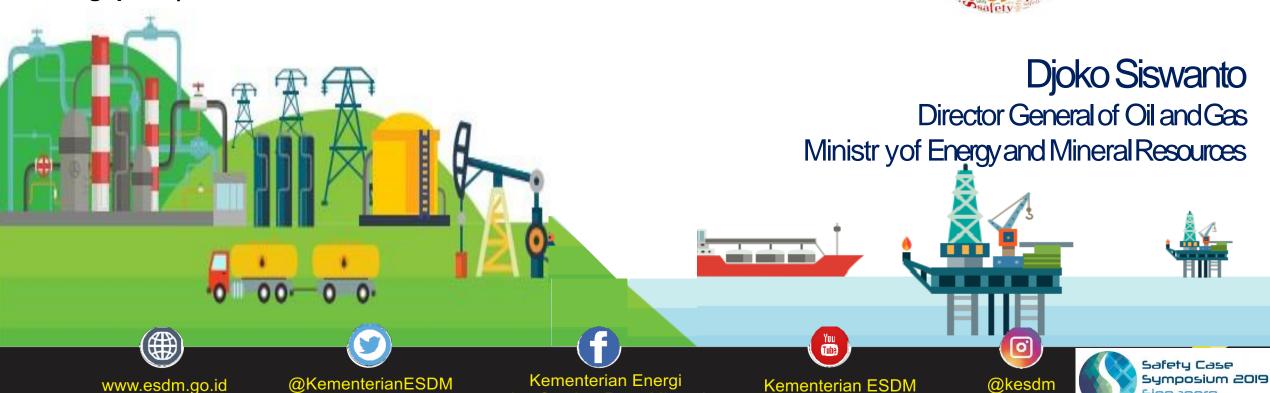


The 2nd edition: International Safety Case Symposium

Oil and Gas Safety

Singapore | 27 March 2019

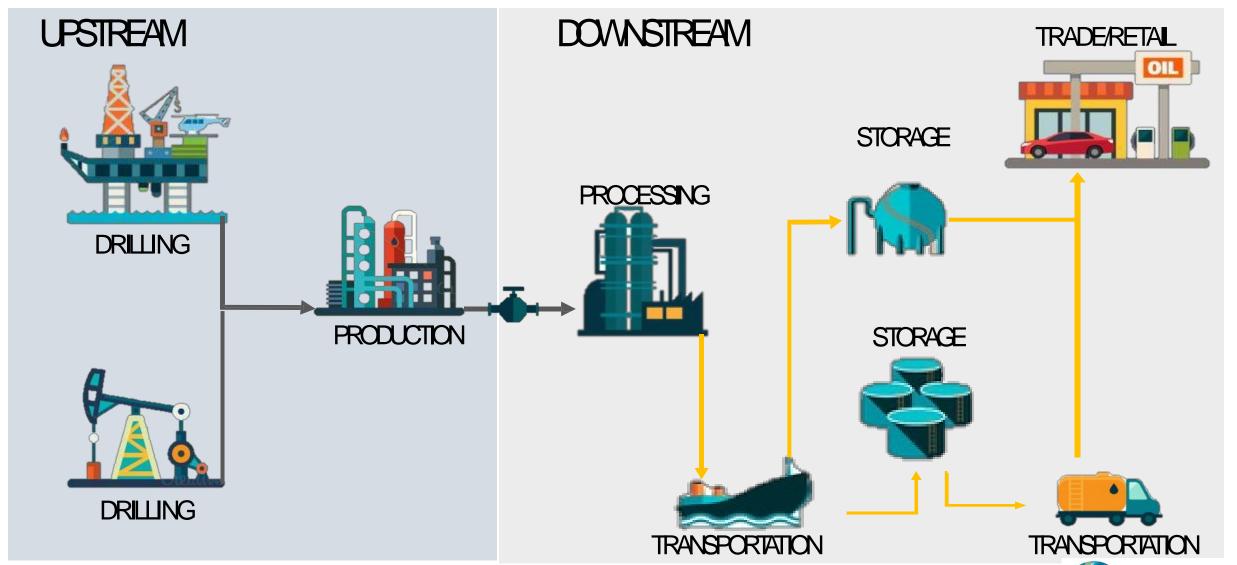


dan Sumber Daya Mineral

Singapore

Mar 26 - 27, 2019

OLANDGAS INDUSTRY



Oil and Gas Management Principle in Indonesia

Securing **equal access** to all oil and gas users in all designated areas

Securing oil and gas supply to meet the domestic demand for end user

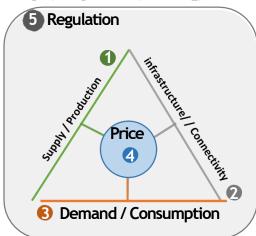
Securing sustainable oil and gas management to support the sustainability of national economy





MINISTRY OF ENERGY AND MINERAL RESOURCES REPUBLIC OF INDONESIA

Truthful, Professional, Serving, Innovative, Meaningful



Optimally securing affordable purchase price to all users by taking into account the economic of the oil and gas sources

End User Choice to use cheaper, more accessible, easier to use and more reliable, but less environmental friendly energy

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Indonesia's Oil Reserve

MINISTRY OF ENERGY AND MINERAL RESOURCES REPUBLIC OF INDONESIA

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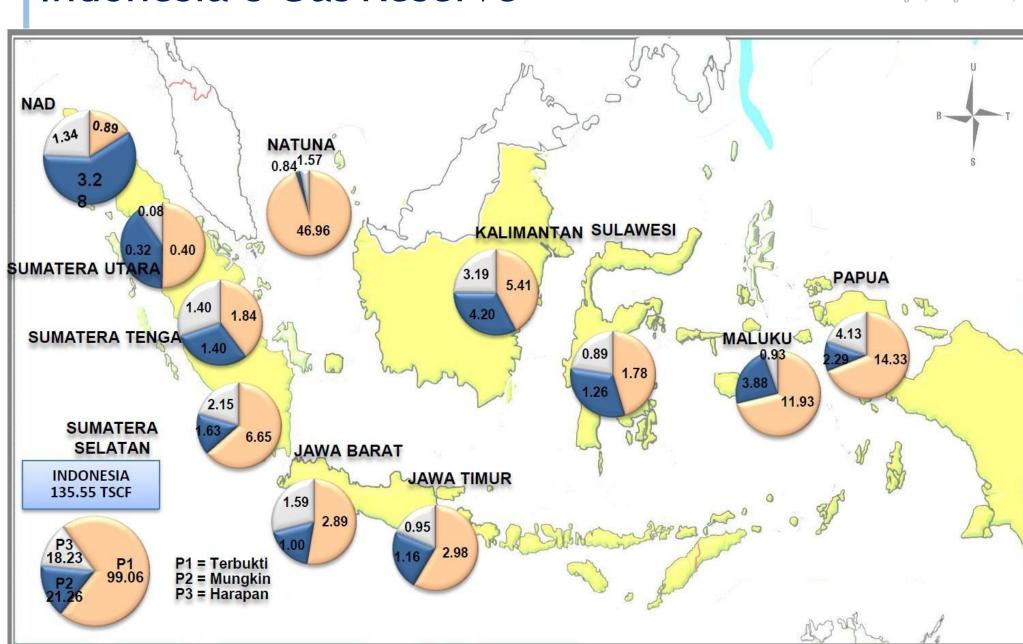
NAD 15.0 NATUNA 23.1 64.7 141.6 117.6 KALIMANTAN SULAWESI 39.0 73.2 18.5 78.8 SUMATERA UTARA 124.0 **PAPUA** 242.5 228.7 495.7 662. 101.2 SUMATERA TENGA 11.0 MALUKU 1,152.0 104.9 201.1 413.0 **SUMATERA** 231.6 **SELATAN** JAWA BARAT **JAWA TIMUR INDONESIA** 7,512.2 MMSTB 604.6 193.3 817.5 P3 2,063.5 P1 = Terbukti P2 = Mungkin 3.154.3 P3 = Harapan 2,294.4

Status 1.1.2018



Indonesia's Gas Reserve

Truthful, Professional, Serving, Innovative, Meaningful



Status1.1.2018



On Going and Upcoming Upstream Oil and Gas Projects



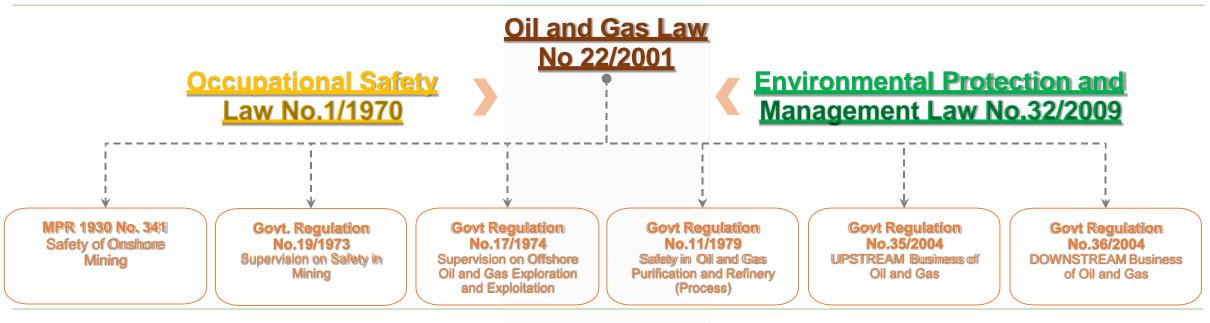




Regulation of Oil and Gas Safety in Indonesia



1945 CONSTITUTION OF THE REPUBLIC OF INDONESIA



Minister of Energy and Mineral Resources Regulation

- No.18/2018 Safety Assurance of Equipment and Installation in Oil and Gas Sector
- No.31/2012 Gas Flaring
- No.15/2008 Enforcements of National Standard in Oil and Gas Transportation and Distribution System by piping or pipelines as Mandatory
- Stipulation No.300K/1997 Safety of Oil and Gas Pipelines



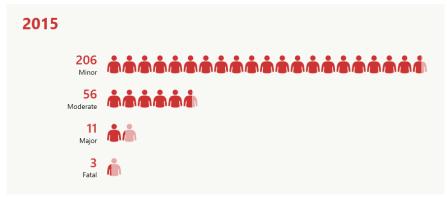


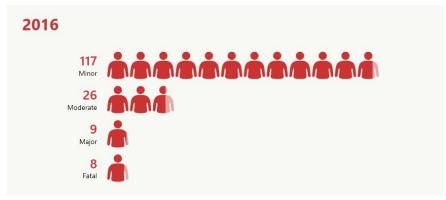
Accidents Statistic

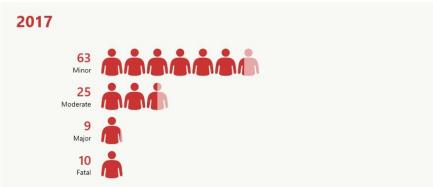


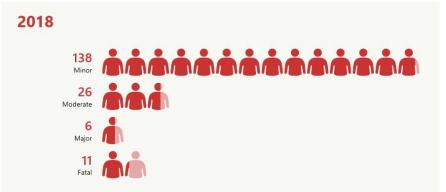
Truthful, Professional, Serving, Innovative, Meaningful

Number of Accidents related to Worker in Oil and Gas Sector















Moderate Loss Time < 21 days



Major

Loss Time > 21 days or Disabled





Development & Supervision of Oil and Gas Safety



Truthful, Professional, Serving, Innovative, Meaningful



"Effective, Efficient, Safe, Reliable, and Environmentally Friendly Oil and GasInstallation (3APrinciple)"

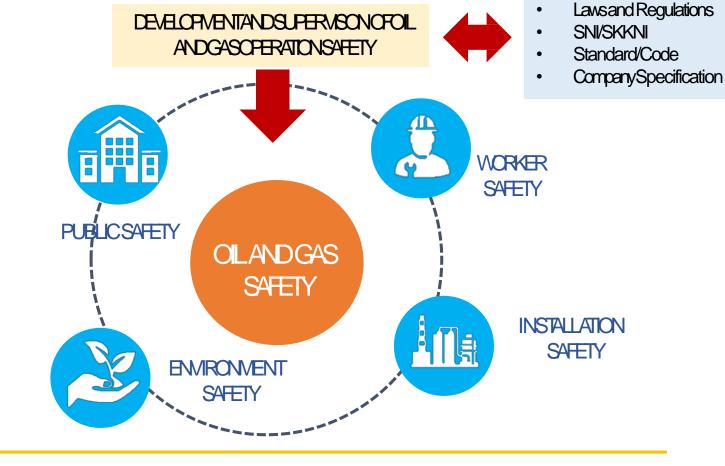
NDICATOR



Zero
EMRONMENTAL POLLUTION



Zero
EQUIPMENT/
INSTALLATION
DAMAGE







Zero SOOETYLOSS



Oil and Gas Safety Inspection & Audit





- Reliability
- Safety
- **Availability**
- **Profitability**

OLANDGASVALLECHAIN

PRE-OPERATION

- Planning
- Construction
- 3. Commissioning

OPERATION

- Operation
- Maintenance

POST-OPERATION

- Decommissioning
- Redamation



Reliable, Safe, Accurate, Efficient, Effective, and Environmentally friendly



AUDITOFOIL **ANDGAS** SAFETY MANAGEMENT

Crisis and Emergency Management Incidents and Fulfilment Guarantee

Management Audit and Review

- Commitment, Policy, Organizational and Administrative Leadership
- Risk Management
- Operational Management
- Asset and Installation Management
- Training, Communication and Culture
- Security Management
- Monitoring, Performance Measurement

Mar 26 - 27, 2019

Oil and Gas Safety Culture

Sumposium 2019

Singapore Mar 26 - 27, 2019

Safety culture as the core values and behaviours of all members of an organization that reflect a commitment to conduct business in a safe and environmentally responsible manner.

(BSEE: Bureau of Safety & Environmental Enforcement, 2013) Increasing information **GENERATIVE** HSE is how we do **PROACTIVE** business round here Safety leadership and values drive CALCULATIVE continuous improvement We have systems in **REACTIVE** place to manage 5 hazards Safety is important, we do a lot every time we **PATHOLOGICAL** have an accident Who cares as long as we're not caught Increasing trust and accountability 1 Safety Case



Thank you!

MINISTRY OF ENERGY AND MINERAL RESOURCES
Directorate General of Oil and Gas

Website: www.migas.esdm.go.id

