# Regulatory in oil and gas industry

The Deputy for Management & Human Capital Development, Ministry of Petroleum (MOP)

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# 2. Regulatory in oil and gas industry





Definition of **regulator** and **operator** in oil and gas industry

- It is an entity that set policies and monitor an industry's prices, products, and practices to ensure proper functioning of the market and ensure consumers' satisfaction.
- In oil and gas industry holding companies are considered as operators. They play significant operational roles in upstream and downstream sectors. Operators must obey the regulator's policies.





Regulator(s) have three distinct roles which can be shared among several entities:



#### **Policy creation** (e.g. develop HSE policies)



Policy oversight (e.g. monitor HSE compliance based on HSE policies)



Policy implementation (e.g. award concessions / licenses

\* Regulator has mainly policy creation and oversight roles. Policy implementation depends on the country. In this report regulator is used for dedicated O&G regulator





Here is a comparison between regulators & operators roles in the industry

| Bodies<br>Roles       | Regulator    | Operator<br>(Holding Oil<br>& Gas<br>Companies) | conditions   |
|-----------------------|--------------|---|--|
| Policy creation       | $\checkmark$ | ×   | This role only can be assign to regulator bodies                             |
| Policy oversight      | $\checkmark$ | ×   | This role only can be assign to regulator<br>bodies                          |
| Policy implementation | $\checkmark$ | ✓   | Policy implementation in some countries is assigned to the holding companies |



There are six major categories which cover many of the oil and gas policies set, overseen and implemented by regulators

#### Categories of policies

Sanctioning

#### Example of policies

|          | 0                                       |   |
|----------|---|---|
|          | General oil and gas policies            | <ul> <li>Oil and gas fiscal / royalty policies</li> <li>Oil and gas price setting</li> <li>Tariffs and subsidies</li> <li>Import / export policies</li> <li>Foreign investment policies</li> </ul>  |
|          | Exploration, development and production | <ul> <li>Depletion policy (whether and at what pace to explore for oil and gas)</li> <li>Award concessions / licenses</li> <li>Exploration and production location determination</li> <li>Exploration and production contracting mechanism</li> </ul> |
|          | Infrastructure                          | Permits for transportation, storage, distribution, compression, liquefaction,<br>decompression, regasification, marketing, and sale of crude oil, oil products, and natural gas   |
| <b>S</b> | Decommissioning of petroleum activities | <ul> <li>Decommissioning program / policies (including entities liable for decommissioning costs)</li> </ul>  |
| Ø        | Environmental, health and safety        | <ul><li>Environmental policies</li><li>Health and safety policies</li></ul>   |
|          | Sanctioning                             | Legal sanctions for violations in the oil and gas sector  |



We have performed a global benchmarking assessment and have collated lessons learned

#### **KEY QUESTIONS**

- Who will regulate the oil and gas sector?
- How many regulators are required?
- What is the authority of the regulator(s)?
- How many oil and gas Holding Companies are required to manage the entire value chain?
- Level of ownership of Holdings?

Regulatory characteristics

Holding Company (operator) characteristics

- Number of regulatory bodies to execute the three roles of policy maker, regulator and implementer
- The authoritative positions of the bodies
- Authority level of the regulator(s)

- Number of Holdco's across the value chain
- Level of government ownership of the Holdco(s)
- Business unites and legal entities within the Holding Companies

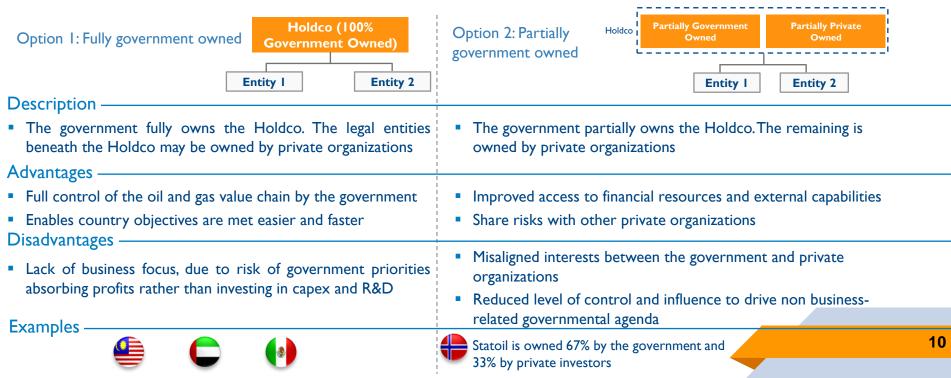
# 3. Regulatory Benchmarks in oil and gas industry

#### Investigating the number of operators (holdco's) **Government Entity Option 2: Multiple Holdco's Option I: One Holdco Government Entity** HoldCo Holdco 2 Holdco 3 Holdco 4 Holdcol **Entity** I Entity 2 Description One Holdco focusing on the entire oil and gas value chain Each section of the oil and gas value chain has a separate Holdco, each reporting to their own Board of Directors Advantages -Integrated decision making, providing clear alignment on sector Direct line of sight to the government on oil and gas matters vision and strategy Increased focus on a particular part of the oil and gas value chain More negotiation power with oil majors Single point of contact improves communication channels to the government Disadvantages Lack of independent decision making leading to increased Lack of integrated strategic approach across the oil and gas value bureaucracy chain Examples -Duplication of functions 9 Saudi Arabia UAE Mexico Malaysia Norway



## Investigating ownership of operators (holdco's)

#### A country can decide to fully own the Holdco or share ownership with private organizations





## Investigating the number of regulators in the industry

Option I: One regulatory body

**Option 2: Multiple regulatory bodies** 

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|   |                                 |   |   | /                       |  |  |
|---|---------------------------------|---|---|-------------------------|--|--|
| Description   | Regulator Upstream & Downstream |   | Regulator(s) Upstream   | Regulator(s) Downstream |  |  |
| <ul> <li>Independent oversight: one dedicated regulatory body across the<br/>upstream, midstream and downstream activities</li> </ul> |                                 |   | <ul> <li>Independent oversight; multiple dedicated regulatory bodies for<br/>upstream and / or downstream activities</li> </ul> |                         |  |  |
| <ul> <li>Most applicable when there is a large focus on either upstream or<br/>downstream</li> </ul>                                  |                                 | • | <ul> <li>Most applicable when upstream and downstream are well<br/>established</li> </ul>                                       |                         |  |  |
| Advantages —  |                                 |   |   |                         |  |  |
| <ul> <li>Ensures the interests of the entities across the value chain are<br/>aligned</li> </ul>                                      |                                 | • | <ul> <li>Provides strategic focus on a particular part of the value chain<br/>ensuring;</li> </ul>                              |                         |  |  |
| <ul> <li>Increased efficiency through functional synergies</li> </ul>   |                                 |   | <ul> <li>Sector specific expertise</li> </ul>   |                         |  |  |
| <ul> <li>Greater negotiation strength</li> </ul>  |                                 |   | <ul> <li>Reduced conflicts of interests</li> </ul>  |                         |  |  |
| Disadvantages   |                                 |   | <ul> <li>Increased agility</li> </ul>   |                         |  |  |
| <ul> <li>Lack of specialized capabilities to regulate the entire value chain</li> </ul>   |                                 | - | <ul> <li>Risk of disconnect between the regulators</li> </ul>   |                         |  |  |

-Examples





#### Option I: One regulatory body

**Regulator Upstream & Downstream** 

**Explanation** 



**Upstream:** Ministry of Energy, Industry and Mineral Resources (MEIM) **Downstream:** MEIM



**Upstream:** Supreme Petroleum Council (SPC) **Downstream:** SPC



**Upstream:** Malaysia Petroleum Resources Corporation (MPRC) **Downstream:** No dedicated regulatory body for downstream. Regulation is conducted by different ministries such as the Ministry of International Trade / Industry and Ministry of Domestic Trade, Cooperatives / Consumerism Ministry

#### Option 2: Multiple regulatory bodies

Regulator(s) Upstream

Regulator(s) Downstream\*



**Upstream:** Ministry of Energy (SENER) / Comisión Nacional de Hidrocarburos (CNH) **Downstream**: Energy Regulatory Commission (CRE)



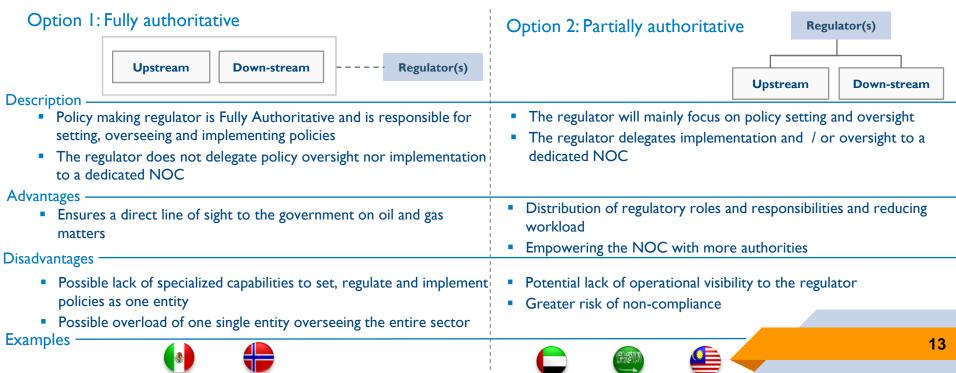
**Upstream:** Ministry of Petroleum and Energy (MPE), Norwegian Petroleum Directorate (NPD) and Petroleum Safety Authority (PSA)

**Downstream:** The downstream sector is market-based and is not heavily regulated



### Authority levels of a regulator

#### The position of the regulatory body dictates the level of authority





#### The policy creator can either be fully authoritative or share policy implementation with a national oil company.



#### Explanation



The policy creators in Mexico (e.g., SENER / CNH) set, oversee and implement policies for the entire value chain. Pemex has to comply at the same level as private operators



The regulators (e.g. MPE and NPD) set, oversee and implement policies across the entire value chain. Statoil has to comply at the same level as private operators



The policy creator in Saudi Arabia (MEIM) delegates policy implementation to Saudi Aramco

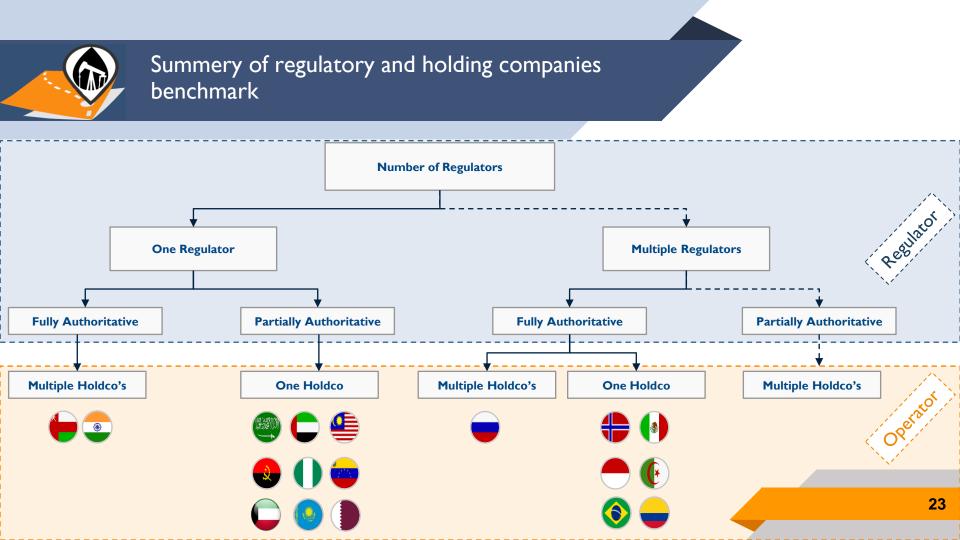


The policy creator in UAE (SPC) delegates policy implementation to ADNOC



The upstream policy creator in Malaysia (MPRC) delegates policy implementation to Petronas







Relationship between the number of holding companies and the number of regulators

If there are multiple regulators in the industry, they should be fully authoritative.

If there is only one regulator that is partially authoritative, there should be only one Holding company in the industry.

If there is only one regulator in the industry that is fully authoritative, industry could have multiple holding companies.

Holding Companies have integrated Value Chain.

Most of the Holding companies are state-owned (100% government owned).

