IPIECA

Learning the lessons from Macondo & Montara East Asian Seas Congress 2018 Iloilo, Philippines



www.ipieca.org

What is IPIECA?

- Global oil and gas association for environmental and social issues
- Formed in 1974 following the launch of UN Environment
- Only global association involving both upstream and downstream



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IPIECA Members

Corporate members , bp ÷. Chevron eni BHP (free ConocoPhillips ExonMobil. HESS Husky Energy INPEX Anadarka equinor Ø 0il Search **evy** MÆRSK BR PETROBRAS (LIBYA NOC Marathon Oil ne noble energy KOSMSS ው nexên **!!** Woodside PETRONAS TOTAL المستحر البريان REPJOL Santos itože filuzeciji Associate members BAKER HUGHES 8 TETT Petrofac 🔞 Schlumberger Association members ibp CAPP Aip **MEXHI** Canadian fuels energy API 🚷 appea COMCAW 55 FuelsEurope CANADIAN ARROCATION IS PETROLEUM PRODUCEDS World Petroleum Council PEPANZ J9@C 🥜 PA J sapia OIL&GASUK olie dasů danmark UK**pia** Norskolje&gass



What does IPIECA do?

IPIECA helps the oil and gas industry improve its environmental and social performance by:

- Developing, sharing and promoting good practices and solutions
- Enhancing and communicating knowledge and understanding
- Engaging members and others in the industry
- Working in partnership with key stakeholders
- Pooling expertise across the range of environmental and social issues





IPIECA is the industry's principal channel of communication with the United Nations.



IPIECA's role in the industry

- Sustainable Development and Climate change are challenges that can only be solved through partnership and collaboration
- IPIECA's unique status creates value through convening power both within and beyond the industry, building trust and partnerships
- IPIECA's work supports improvements in environmental and social performance and understanding of the role of the industry in support of sustainable development.





Eight Years on from Deep Water Horizon: The Impact of the Macondo Incident





Macondo & Montara changed how the industry prevents and prepares for blow-outs & spills...





Many new techniques were developed for Macondo – the response was huge and technically difficult









Global Industry Response Group (GIRG)



IOGP & IPIECA members have invested millions of dollars to build new equipment and make the new techniques available to all



Offloading Tanker

Sub-sea Well Response Project

DP Drill Ship

Coil Tub Vesse



Sub-sea intervention & dispersant systems are now available around the world*...



* NB: There are currently around 27 unique capping systems for emergency response available around the world

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Oil Spill Response – Joint Industry Project (OSR-JIP)



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1. Start with *risk assessment* to develop *plan scenarios*

Example Scenarios





1. Start with *risk assessment* to develop *plan scenarios*



* NB: Spill Impact Mitigation Assessment ("SIMA") is a methodology to implement NEBA



1. Start with *risk assessment* to develop *plan scenarios* 2. Develop 3. Work out response what strategies resources will using *Net* be *local*, regional, Environment -al Benefit global (Tiered Analysis (NEBA) Response)

SPECIFIC RESPONSE CAPABILITY: EG, OFFSHORE SURFACE DISPERSANTS.

- Decide optimal resource location in advance:
 - Local
 - Regional
 - Global
- Avoid unnecessary duplication



1. Start with *risk assessment* to develop *plan scenarios* 2. Develop3. Vresponsewhatstrategiesresponseusing NetbeEnvironmentreg-al BenefitgloAnalysis(Tie(NEBA)Res

3. Work out what resources will be *local, regional, global (Tiered Response)*

4. Train everyone in a single *Incident Management System* (*IMS*)

Incident Management System

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"Incident Management System for the Oil and Gas Industry"

- Based on Incident Command System (ICS) with common:
 - Organizational groups
 - Management structure
 - Documents & terminology
 - Operating procedures
- Response scale-up & integration into a single unified structure

1. Start with *risk* assessment to develop *plan* scenarios 2. Develop3response4strategies4using Net4Environment4-al Benefit4Analysis6(NEBA)4

3. Work out what resources will be *local, regional, global (Tiered Response)*

4. Train everyone in a single *Incident Management System (IMS*)

5. Involve **Stakeholders** from the beginning (regulators, community)



There is lots of free guidance on the IOGP/IPIECA Web-sites

Use the new guidance on oil spill response tools: Dispersants...

- **Dispersants break oil slicks into tiny drops,** allowing rapid natural bio-degradation in the water
- They allow *rapid response offshore*, to protect important coastal areas
- Sub-sea dispersant injection proved highly effective in the GoM
- Selection, testing, supply, & fate/effects of dispersants are detailed in new guidance
- Regulatory approval & authorisation guide









Use the new guidance on oil spill response tools: For example ...



Summary: Applying the Gulf of Mexico Learning from the Response...

- 1. Risk based scenarios are the starting point
- 2. Response strategies using NEBA
- 3. Tiered response local, regional, global
- 4. Common Incident Management System
- 5. Know the latest oil-spill response tools
- 6. Engage Stakeholders

IOGP/IPIECA Joint Industry Project:

www.ipieca.org/resources



