

# INLAND OIL SPILL PREPAREDNESS AND RESPONSE



# **PREVENTION**

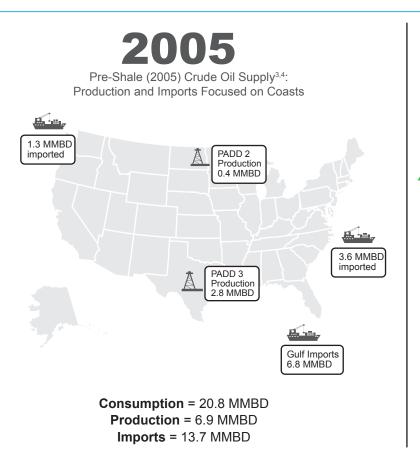
Our priority is prevention. We take extensive precautions to prevent spills from ever occurring.

- Proactive inspections and preventive maintenance
- 24/7 monitoring of assets
- Rapid shutdown capabilities
- Emergency planning and preparation with partners and stakeholders
- Publication and dissemination of recommended practices



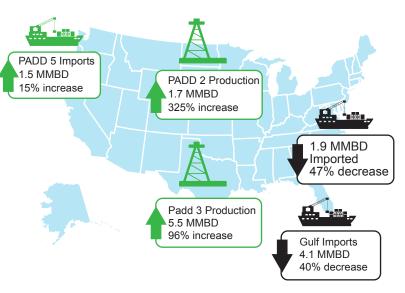
# **INCREASED** DOMESTIC PRODUCTION

The increase in domestic crude oil and natural gas production has resulted in an increase in their transportation across the inland United States. The oil and gas industry has maintained its commitment to safety with more than 99.999%<sup>1,2</sup> of these transported products arriving safely via pipeline.



2016

Post-Shale (2016) Crude Oil Supply<sup>3,4</sup>: Production and Imports Shift from Coast to Heartland



Consumption = 19.7 MMBD

Production = 12.4 MMBD (79% increase)

Imports = 10.1 MMBD (27% decrease)

Source 1: U.S. Federal Energy Regulatory Commission, Barrels Delivered by U.S. Pipeline (2011-2015)

Source 2: U.S. Pipeline and Hazardous Materials Administration, Pipeline Barrels Released (2011 - 2015)

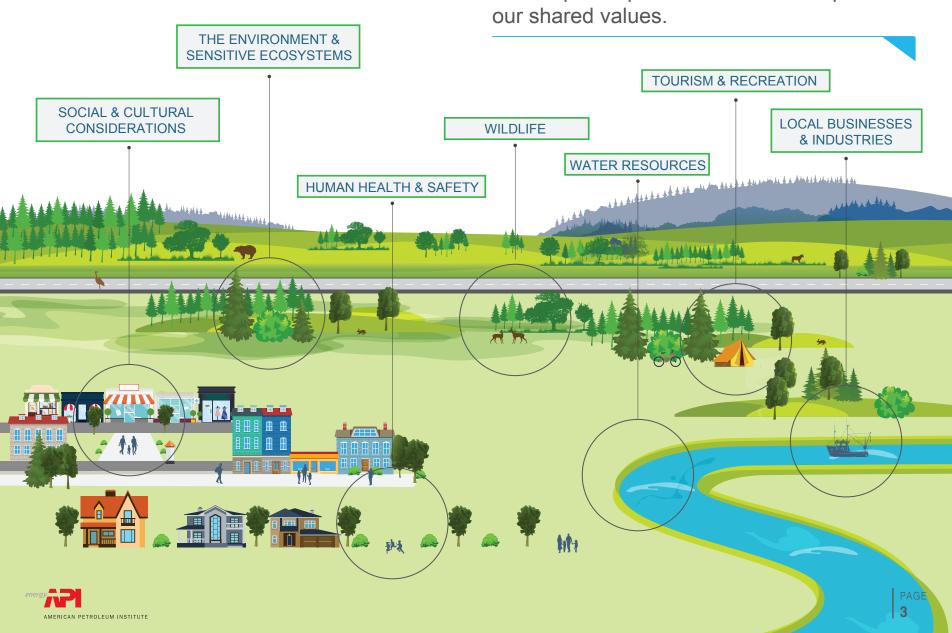
Source 3: U.S. Energy Information Administration, Crude and Petroleum Products Supply and Disposition (2005-2016)

Source 4: U.S. Energy Information Administration, Crude and Petroleum Products PAD District Imports (2005-2016)



# OUR **SHARED VALUES**

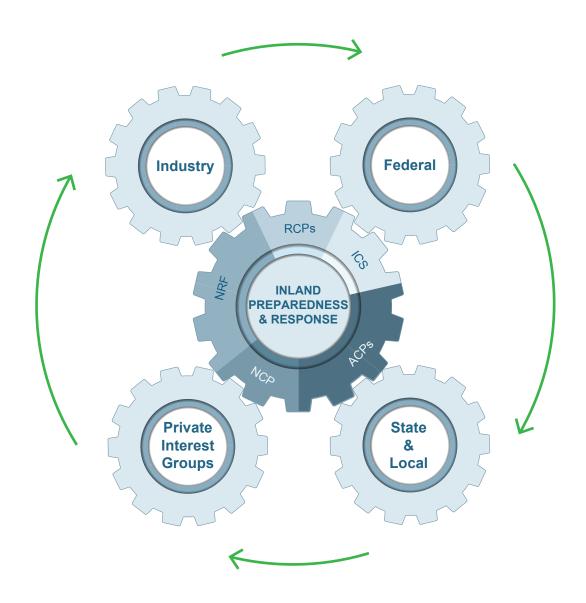
We implement robust inland preparedness and response processes in order to protect our shared values.



# **SYSTEM** VIEW

The oil and gas industry operates within a larger preparedness and response system made up of both public and private stakeholders. The system also includes components such as the National Response Framework (NRF) and **National Incident Management** System (NIMS), which are facilitated through the Regional Contingency Plans (RCPs) and Area Contingency Plans (ACPs). The response community uses the Incident Command System (ICS) to staff and execute a response, using the plans to guide response efforts.

Working as a part of this larger system, we are able to leverage extensive resources and expertise to protect our shared values.



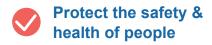
# **PRINCIPLES**

The oil and gas industry and response partners use a set of guiding principles to inform the SIMA process as part of a response in order to choose the best response options contained in the applicable Response Plan. This ensures the most effective response, minimizing damage to the environment.

### **GUIDING PRINCIPLES**

# SPILL IMPACT MITIGATION ASSESSMENT (SIMA)\*

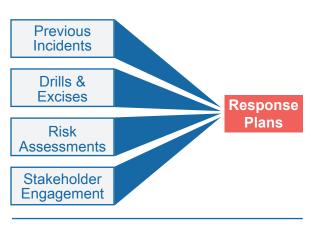
# CONTINUOUS IMPROVEMENT





- Minimize the spread of oil
- Minimize oil getting into water
- Minimize environmental and community impact





Lessons learned inform response plans



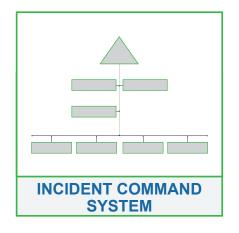
<sup>\*</sup> Formerly Net Environmental Benefit Analysis (NEBA)

# **PARTNERSHIPS**

Industry works with the stakeholders that make up the inland preparedness and response system in order to maximize the expertise and resources of the whole.











# **RESOURCES**

We use resources and response techniques specifically designed to address the needs of each type of inland response.

### **RESPONSE TOOLKIT**











Additional resources and processes allow us to scale our response appropriately:

### **CASCADING RESOURCES**

**OIL SPILL REMOVAL ORGANIZATIONS** 





# CASE STUDY | PRIOR TO AN INCIDENT

The following case study demonstrates how our principles, partnerships, and resources work together, both before and after an incident.



Industry works with stakeholders at conferences and events

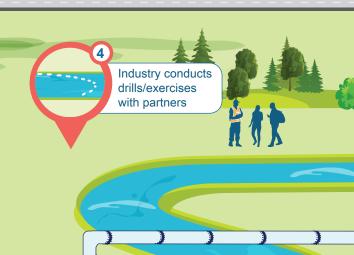






Industry works with local communities and first responders





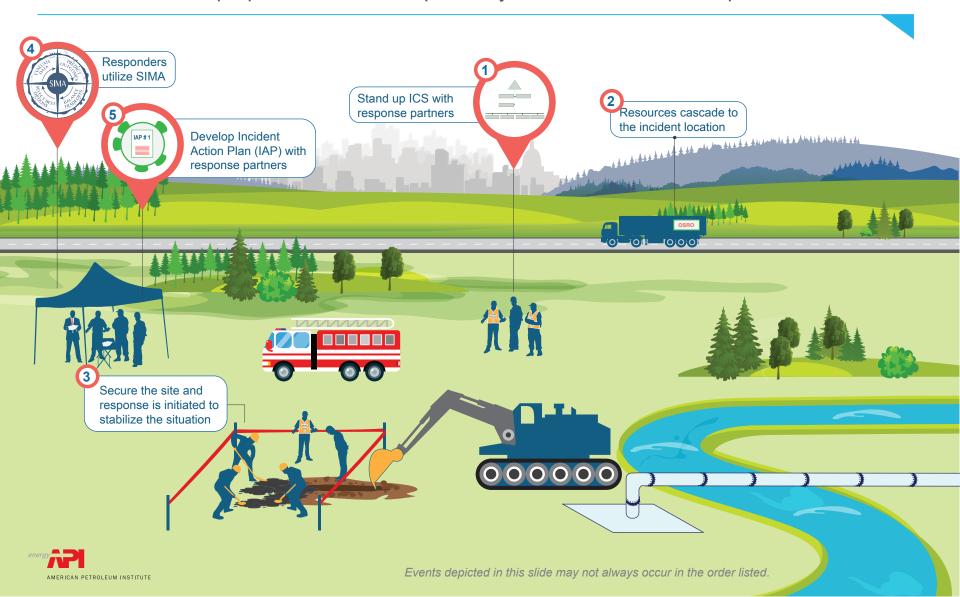
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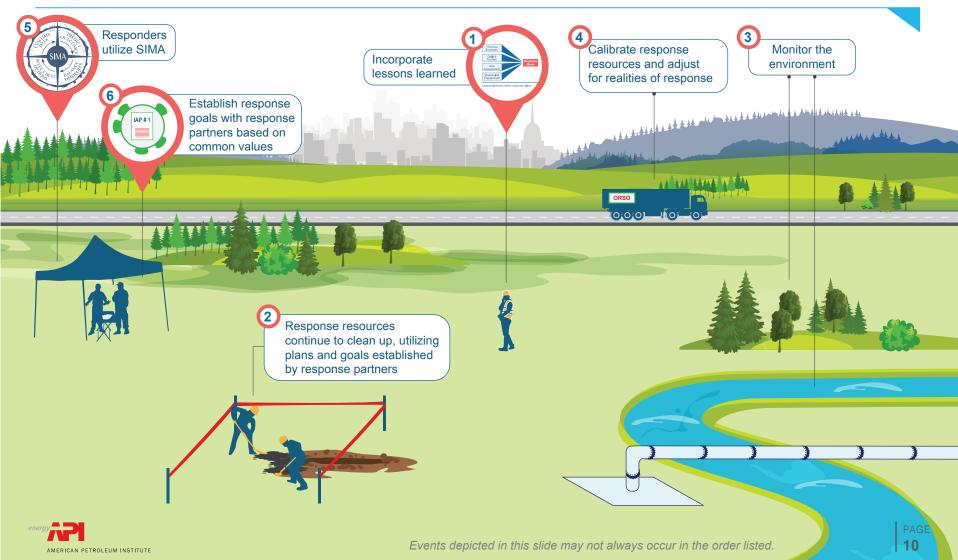
# CASE STUDY | INITIAL RESPONSE

When a local utility company accidentally ruptures a pipeline, the prior planning and coordination of the preparedness and response system is activated to respond to the incident.



# CASE STUDY | CONTINUED RESPONSE

With the incident under control, responders continue the cleanup to protect the safety of people and the environment. Lessons learned from the incident will be incorporated into future preparedness and response activities.



# **WORKING TOGETHER**

As our nation's oil landscape continues to change, our preparedness and response efforts evolve in kind, addressing increases in production and transportation.

Inland preparedness and response efforts require extensive coordination and cooperation to ensure the protection of our shared values.

# Help make these efforts effective by:



Understanding what preparedness and response measures are currently in place in your community



Joining us in training and exercises



Engaging in the development of response plans and processes



# **GLOSSARY**

### **ACP – Area Contingency Plans**

The impacts of an oil spill can vary widely, from isolated incidents that are contained on-site to incidents that have a local, regional, national, or international impact. Contingency plans are developed to address the specific geographic scope of the incident, which include Area Contingency Plans. Such plans enable responders to address incidents by helping to identify and coordinate the activities of the different government agencies and private organizations involved in the response. Different regions vary in their nomenclature and geographic scope of these response plans; please see RCPs below.

### **Cascading Resources**

Every response is different and requires various types and numbers of resources. The concept of cascading resources gives the response organization the flexibility to expand or contract as the needs of the response change within the framework of the Incident Command System.

### **RCP – Regional Contingency Plans**

Much like Area Contingency Plans (ACPs), RCPs are developed to address the specific geographic scope of the incident at a broader level. Different regions may vary in their nomenclature as it relates to RCPs. Such plans enable responders to address incidents by helping to identify and coordinate the activities of the different government agencies and private organizations involved in the response.

# **GLOSSARY**

### **IAP – Incident Action Plans**

An Incident Action Plan (IAP) is an organized course of events that addresses all phases of incident control within a specified time. An IAP is necessary to effect successful outcomes in any situation, especially emergency operations, in a timely manner.

### **ICS – Incident Command System**

The ICS is a management system designed to enable effective and efficient domestic incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure, designed to enable effective and efficient domestic incident management.

### NRF - National Response Framework

The NRF is a guide to how the Nation responds to all types of disasters and emergencies. It is built on scalable, flexible, and adaptable concepts identified in the National Incident Management System to align key roles and responsibilities across the Nation. The NRF describes specific authorities and best practices for managing incidents that range from the serious but purely local to large-scale terrorist attacks or catastrophic natural disasters.

# **GLOSSARY**

### NCP – National Contingency Plan

The National Oil and Hazardous Substances Pollution Contingency Plan, more commonly called the National Contingency Plan or NCP, is the federal government's blueprint for responding to both oil spills and hazardous substance releases. The NCP is the result of efforts to develop a national response capability and promote coordination among the hierarchy of responders and contingency plans.

### OSRO – Oil Spill Removal Organization

An Oil Spill Removal Organization is contracted by oil and gas companies to clean up spills or to prove to regulators that the company has the capabilities to respond to a spill, should one occur. These companies work with industry to understand response options and the needs of a particular spill; please see 'cascading resources' above.

### SIMA – Spill Impact Mitigation Assessment

Spill Impact Mitigation Assessment is a tactical approach developed to allow operators in oil and gas to evaluate response options in a geographic area based on different spill scenarios. This has been developed to better guide operators and response partners when performing a Net Environmental Benefit Analysis (NEBA).

# **Planning P**

The Planning "P" depicts the stages in the incident action planning process. The leg of the "P" includes the initial steps to gain awareness of the situation and establish the organization for incident management. Although maintaining situational awareness is essential throughout the life cycle of the incident, the steps in Phase 1 are done only one time. Once they are accomplished, incident management shifts into a cycle that of planning and operations, informed by ongoing situational awareness, that continues and is repeated each operational period.

