



## THE OSI NEWSLETTER

The OSI Newsletter is published quarterly by Oil Spill India, an industry led forum supported by its advisory board. One of the central goals of OSI is bringing together the global spill response industry & its stakeholders in the region for enhanced cooperation in planning, prevention and response of any spill or disaster in marine ecosystem, concurrently building an informative schedule of the raising Global Standards. It is intended to function as a thought - starter, change - agent and signpost through the intellectual capital that accrues through the rich assortment of diverse, pertinent and eminently interesting subjects of concern to the spill, salvage, wreck removal & marine disaster industries besides showcasing the technological depth and knowledge repertoire of the industry.

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## Newly-commissioned Indian Coast Guard ship is capable of oil spill management



Indian Coast Guard Ship - Sujay - the sixth in the series of six 105m Offshore Patrol Vessel (OPV) was commissioned today at Goa by Director General Rajendra Singh.

Sujay, which means "great victory", is a projection of the Indian Coast Guard's will and commitment "to serve and protect" the maritime interest of

the nation. The ship is based at Paradip, Odisha under the operational and administrative control of the Commander Coast Guard Region (North-East).

The 105 meter OPV has been designed and built by Goa Shipyard Limited. It is fitted with state-of-the-art navigation and communication equipment and sensors and machinery.

The features include a 30mm CRN 91 Naval Gun, integrated bridge system (IBS), integrated machinery control system (IMCS), power management system (PMS) and high power external fire fighting system.

The ship is designed to carry one twin engine light helicopter and five high speed boats including two quick reaction inflatable boats for swift boarding operations, search and rescue, law enforcement and maritime patrol.

The ship is also capable of carrying pollution response equipment to contain oil spills at sea.

## Maritime cooperation centres launched in Africa and Pacific

Africa and the Pacific region launched their own maritime technology cooperation centre as part of an IMO-EU project, aiming to establish a global network of centres to further promote the global efforts in addressing climate change.

The centres will be regional focal points for various activities, such as ensuring compliance with existing and future international energy-efficiency regulations, promoting uptake of low-carbon technologies and operations in maritime transport, and establishing voluntary pilot data-collection and reporting systems to feed back into the global regulatory process. With these actions, they will play their part in supporting the United Nations Sustainable Development Goals (SDGs).

The African Maritime Technology Cooperation Centre (MTCC-Africa) follows other centres launches in Asia, the Caribbean and the Pacific regions earlier this year, with the Latin America MTCC expected to launch in the beginning of 2018. Together they form a network under the GMN project funded by the European Union and run by IMO.



National News

## INS Kalvari Commissioned into the Indian Navy



The Honourable Prime Minister of India, Shri Narendra Modi commissioned INS Kalvari (S-21), the first of the six Scorpene class submarines built under Project 75 (Kalvari Class) into the Indian Navy at an impressive ceremony held at Naval Dockyard, Mumbai on 14 December 2017. The event marked the formal induction into the Navy of the first of the six submarines being constructed at Mazagon Docks Ltd., in collaboration with the French builder M/s Naval Group.

Shri Ch. Vidyasagar Rao, the Governor of Maharashtra, Shri Devendra Fadnavis, Chief Minister, Mrs. Nirmala Sitharaman, Raksha Mantri, Dr. Subhash Bhamre, Raksha Rajya Mantri, Shri Ajit Kumar Doval, National Security Advisor, Admiral Sunil Lanba, the Chief of the Naval Staff, Vice Admiral Girish Luthra, Flag Officer Commanding-in-Chief Western Naval Command, Commodore Rakesh Anand (Retd.), CMD, MDL, Commodore Subra-Manian (Retd.), Commanding Officer of erstwhile Kalvari (a Soviet Foxtrot class submarine) and a host of other dignitaries were also present to witness this historic and landmark occasion.

## Indian Coast Guard conducts Regional Level Marine Oil Pollution Response Exercise : Clean Sea-2017



The Indian Coast Guard (ICG) conducted the Regional Level Marine Oil Pollution Response Exercise named 'Clean Sea-2017' at sea off Port Blair, Andaman & Nicobar Islands.

The objective of exercise was to ascertain preparedness of ICG, resource agencies and other

stakeholders in responding to major oil spill in line with provisions of National Oil Spill Disaster Contingency Plan (NOS-DCP).

The exercise was planned to evaluate preparedness for Response Operations for any such oil pollution incident in highly sensitive area of A&B islands. The exercise was conducted in two phases for synchronizing support and cooperation provided by all stakeholders for combating oil spills in such ecologically sensitive areas.

The exercise saw participation of ICG Pollution Control Vessel and integration of ICG Dornier/Chetak aircraft into Oil Spill Disaster Management System for aerial assessment and delivery of Oil Spill Dispersant for mitigation of spilled oil.

The Indian Coast Guard (ICG) under Ministry of Defence is responsible for marine environment protection in maritime zones of India and is coordinating authority for response to oil spills in Indian waters. It has drawn up National Oil Spill Disaster Contingency Plan (NOS-DCP) and has established three pollution response centres at Mumbai, Chennai and Port Blair.

## Indian Navy extends help to Singapore vessel stranded at sea



The Indian Navy engaged in search and rescue operations in Cyclone Ockhi-hit seas off Kerala and Lakshadweep extended help by giving fuel to a foreign vessel stranded off Minicoy Island.

INS Shardul encountered tug 'Bes Power' of Singapore stranded due to the cyclone 35 nautical miles north-east of Minicoy Island late last night.

On interrogation, the tug crew requested 45 tonnes of fuel to continue passage to Maldives.

"Fuel was transferred to the Tug in true naval ethos of being the first responder to all," a Defence spokesman said here today.

Meanwhile, a Dornier aircraft and a ship of the Navy have left for rescuing a boat stranded with 15 persons near Lakshadweep islands after receiving a message through an aircraft flying near Kochi, the spokesman said.

He also said a Coast Guard Ship Vaibhav has recovered two bodies off Alappuzha.



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International News

**LSU gets millions in BP oil Spill money to study how to make Gulf drilling safer**



Louisiana researchers are getting the lion's share of \$10.8 million of BP oil settlement money to figure out ways to make offshore drilling safer and prevent disasters like the 2010 Deepwater Horizon spill.

The National Academies of Sciences, Engineering and Medicine announced the distribution of the \$10.8 million in awards on Thursday, with LSU engineering professor Wesley Williams claiming the largest share.

His \$4.9 million project will study how to prevent oil rigs from accidentally tapping into underground pockets of natural gas. When the flammable gas gets into the pipes, it expands and can blow out the top, which may cause an explosion - the very thing that happened in the Deepwater incident, Williams said.

To protect the environment and the safety of workers, scientists want to figure out how to determine where natural gas pockets are and how to gradually release the gas. That way, Williams said, it can be flared off harmlessly instead of blowing up in an "uncontrolled explosion."

The university operates a mile deep test and training well at the Petroleum Engineering Research & Technology Transfer Lab near Alex Box Stadium. The equipment makes LSU uniquely positioned to undertake this type of study, Williams said. Researchers will inject controlled amounts of gas and fluids at the PERTT test site to study how to safely extract the liquids without causing dangerous gas leaks, he continued.

**Federal government to spend \$80M on ocean protection**

The federal government is investing more than \$80 million to protect Canada's waters, marine life and habitat from potential oil spills under the \$1.5-billion oceans protection plan announced in November 2016.



Kings-Hants MP and Treasury Board president Scott Brison made the announcement Monday at the Bedford Institute of Oceanography in Dartmouth. Part of the funding will go toward creating a \$45-million, multi-partner oil spill research initiative, Brison said.

"This investment will ensure that Canada has the capability to provide the best scientific advice and tools to prevent and potentially to respond to oil spills in our waters," he said.

The \$45-million program will be led by the Department of Fisheries and Oceans with support from other federal departments.

Of the \$80 million, more than \$17 million will go toward enhancing ocean models of wind, waves and currents so that emergency responders will be able to track spills and predict their path, Brison said.

**After years of toxic oil spills, indigenous Peruvians use tech to fight back**



Armed with territorial knowledge, rubber boots, smartphones and drones, indigenous Amazonians in Peru are doing what state and private oil companies have long failed to do: report oil spills that have been polluting their corner of the rainforest for decades.

Fidel Sandi, 33, a leader in the indigenous Achuar community of San Cristobal, plunges a stick into the spongy soil of a palm swamp and watches as sticky crude bubbles to the surface leaving an oily sheen on the water.

"The trees are drying out, the people gather fruit here for the market, there are animals here that they hunt, but everything is polluted," Sandi sighs with a mixture of anger and exasperation. Gazing at the palms, he has a keen eye for the signs of oil contamination. Now he can use his smartphone to gather geo-referenced photographic and video evidence to report to Peru's environmental supervision agency OEFA.

His community still collect aguaje palm nuts and hunt peccary in this patch of wetland, part of Oil Block 8 which has been concessioned to Pluspetrol, the largest oil and gas producer in Peru, for the last 15 years. A company sign says it was environmentally remediated in 2009 but Sandi says crude deposits mean the food chain is contaminated. Oil drilling began around his village on the bank of the Corrientes river before Sandi was born.

## U of S researcher lands \$224K grant to study effects of Husky oil spill on fish



An assistant professor at the University of Saskatchewan has received a federal grant of \$224,000 to study the effect the 2016 Husky oil spill had on fish.

A faulty pipeline leaked about 225,000 litres of oil onto a riverbank near Maidstone in July 2016. About 40 per cent of the oil made its way into the North Saskatchewan River.

"It feels good to be able to contribute to decision-making and better understanding of some of the challenges we face when we're using oil and when these accidents happen," Jardine said.

"Incidents like this are going to continue to happen, so we need to be able to understand the consequences for the environment when we have a spill of this magnitude."

There will be six other people participating in Jardine's independent study. Field work began in the summer with the collection of fish. Jardine said they are now undergoing chemical testing in the lab.

The funding for the project is part of a country-wide initiative by Fisheries and Oceans Canada in which \$80 million is being provided for initiatives toward the mitigation and prevention of marine incidents, such as oil spills.

## Federal support for oil spill fund will end in 2018



The nation's main oil-spill response fund will lose its biggest financial support at the end of the month, according to federal officials and watchdog groups.

Public Employees for Environmental Responsibility said by email that a 9-cent per-barrel excise tax on all American crude oil will expire at the end of the year. That tax goes into the fund to pay for oil spills from a variety of sources, including pipelines, refineries, oil wells and ships.

Rick Steiner, a retired University of Alaska Anchorage professor and board member of PEER, said by email that the issue was a "spectacularly fumbled ball by Congress."

According to an email from Bill Grawe, director of the fund's managing agency, to Steiner, the fund contains approximately \$5.7 billion. Staff at the agency, when reached by the Empire on Monday afternoon, confirmed that the tax will lapse at the end of the year and that the fund's value will start to shrink after the tax lapses.

The trust fund doesn't just pay for immediate response in the case of an oil spill. It also funds pipeline safety programs, aircraft upgrades for the Coast Guard, and liability claims stemming from spills. In federal fiscal year 2015, the fund paid more than \$225 million in major expenses, those greater than or equal to \$250,000 each.



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## Bitumen spill would harm migrating salmon: Study



Salmon migrating through rivers and streams in British Columbia use all their strength, but new research says even tiny amounts of diluted bitumen weakens their chances of making it back to spawn.

Exposure to diluted bitumen hinders the swimming performance of salmon, causes their heart muscle to stiffen and damages their kidneys, Sarah Alderman, a post-doctorate researcher at the University of Guelph, said in an interview.

"We're seeing changes from molecules up to what the organ actually looks like. All of this is affecting how they can actually swim."

Bitumen has the consistency of crumbling asphalt and doesn't flow freely like oil. It needs to be diluted with another petroleum product for it to flow through pipelines.

It is the main crude product flowing through Kinder Morgan's Trans Mountain pipeline from Alberta to B.C. The capacity of the pipeline is slated to triple to 900,000 barrels a day.

No one was available from Trans Mountain for an interview. The company said in a statement that it is not familiar with the University of Guelph research, but it is committed to ensuring pipeline safety.

"Trans Mountain shares the value Canadians place on our waterways and our important salmon populations," said the statement.

"Pipeline safety is our number one priority and, through the experience gained in 65 years of operations, Trans Mountain has developed a mature suite of programs to prevent pipeline failures and maximize the safety of the pipeline system."

Ms. Alderman said their research and work from Simon Fraser University, based in Burnaby, B.C., and the University of British Columbia are the first studies on the impact of bitumen on salmon migration.

"It really is an area that hasn't had much attention," she said. "Our knowledge of bitumen toxicity is really limited."

The research involved exposing year-old salmon, the typical age of migration from freshwater to the sea, to low levels of bitumen. The salmon exposed to diluted bitumen were found to be less fit, with a 15-per-cent reduction in swimming capacity and signs of cardiac fibrosis, she said.

## National Contingency Plan to Take Major Oil Spills

KUALA LUMPUR: The National Oil Spill Contingency Plan (NOSCP) was formulated to deal with large oil spills occurring in the waters around the country, the Dewan Negara was told today.

Deputy Natural Resources and Environment Minister Datuk Dr Hamim Samuri said NOSCP was managed and regulated by the National Oil Spill Control Committee (NOSCC) chaired by the director-general of the Department of Environment (DOE) and consists of 18 agencies as well as related private sectors.

The committee will set out the roles and responsibilities of each agency and parties involved in coping with the oil spill, specifying methods and channels of communication, monitoring the oil movement, spill control strategies, cleaning up and listing of the control equipment stockpile, he said in reply to Senator Datuk Abidullah Salleh's question.

Hamim said when there was a large-scale oil spill for example caused by a ship collision, then surveillance and monitoring of the movement of oil would be conducted through the DOE's Oil Trajectory Monitoring System.

Monitoring of oil moving through the air, sea and land will also be carried out by the agencies involved. The information obtained will be used to develop strategies to control the oil spill and protect environmentally sensitive areas," he said.

Hamim said each state also provides a coastal cleanup action plan which would be mobilised to clean up spills polluting the coastal areas.



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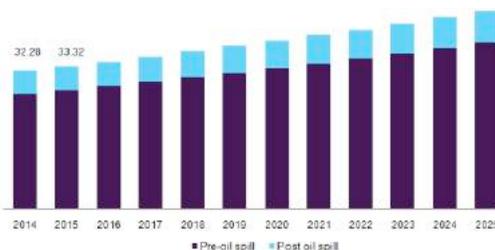


## Oil Spill Management Market To Witness Extensive Growth Due To Rising Incidence Of Oil Spills Till 2025: Grand View Research, Inc.

The global oil spill management market is predicted to touch a valuation of USD 177.63 billion by 2025 due to rising incidence of oil spills, according to a report by Grand View Research, Inc. Oil spills occur due to the release of crude oil into oceans or coastal waters. This can be harmful to the marine ecosystem and may also end up harming birds and mammals that rely on these waters for food.

The market is driven by government regulations permitting offshore and onshore drilling activities. Recent oil spill cases such as the Deepwater Horizon oil spill have led to the passing of stringent environmental policies. Investment in R&D by various companies for efficient oil spilling cleaning methods is expected to drive market growth over the forecast period (2014-2025). Demand for crude oil amid the growing energy crisis is also predicted to play a major role in boosting market demand.

In light of recent oil spills, major oil exploration and production (E&P) companies are creating strategies to



respond better to situations. For instance, British Petroleum (BP) has provided training to its staff to handle such cases. The company has also created incident management teams to respond better by keeping open communication lines with situation-dependent team leaders. Aptomar, a Norwegian company, has developed field sensors to detect oil spills to forewarn management. In addition, its systems contain a user interface to monitor the spread of oil spills as well as detection of weather patterns.

The oil spill management market is segregated by technology, post-oil spill response technique, application, and region. By technology, the market is bifurcated into pre- and post-oil spill. Major post-oil spill response techniques comprise

biological recovery, chemical recovery, and mechanical containment and recovery. Major applications are focused on two segments, namely pre-oil and post-oil spills.

Regions covered in the market report include Central and South America (CSA), North America, Asia Pacific (APAC), Middle East and Africa (MEA), and Europe. The North America market is expected to retain a major market share till 2025 on account of increased E&P activities. Offshore and onshore activities as well as cases related to oil spill such as Marathon Oil are predicted to contribute to its market revenue.

The Europe market is also expected to thrive over the forecast period due to various oil reserves in the North Sea. Technologies such as synthetic aperture radar (SAR) remote sensing technology or satellite remote sensing (SRS) are being considered to tackle oil spillage. Furthermore, tax incentives for decommissioning of oil fields is also anticipated to drive market demand for spill management technologies.

### Massive oil spill clean-up underway in Kokemäki river



Some 50,000 litres of light fuel oil leaked into the Kokemäki river from a Pori Energia heating plant in western Finland.

Dozens of emergency service personnel and a private oil clean-up team are hard at work in the city of Harjavalta to remove the spilled oil.

Due to overnight frost, ice has formed in the river - which is both a blessing and a curse for the crew's efforts, as ice slows the spread of the oil but also hinders the workers trying to clean the water.

Emergency services say they have no precise data on the exact extent of the spill,

which nonetheless represents an area several kilometres in diameter.

"All the senses are needed to detect this fuel oil," says fire chief Timo Lehtonen from the Satakunta Emergency Department. "We might see it and smell it, but we also often need to touch it or even taste it to be sure it's what we're looking for."

The accident occurred due to a discharge pipe being incorrectly attached to a truck carrying fuel oil. The oil seeped out of the tank and into the river through a drainage sewer.

Emergency services cordoned off the spread of the substance with barrier booms, which will be moved later.



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## US considers weakening offshore safety rules to promote more drilling



The Trump administration is considering easing offshore oil and natural gas safety regulations, including eliminating certain requirements for Arctic drilling put in place by the Obama administration, and cutting testing requirements for rules developed in response to BP's Deepwater Horizon disaster, an Interior Department document showed.

In addition, the administration is considering giving operators access to Arctic waters for longer periods than currently allowed, a rule change regulators claim could boost interest in exploration.

Details of the administration's plans of offshore rules were outlined in the Interior Department's latest statement of regulatory priorities. That plan calls for Interior's Bureau of Safety and Environmental Enforcement to rollback or weaken offshore safety regulations put in place by the Obama administration in order to promote additional oil and natural gas drilling in federal waters.

BSEE is reviewing existing regulations to determine whether they may potentially burden the development or use of domestically produced energy resources, constrain economic growth, or prevent job creation," the plan states. "BSEE is well-positioned to help maintain the nation's position as a global energy leader and foster energy security and resilience for the benefit of the American people, while ensuring that any such activity is performed in a safe and environmentally sustainable manner."

According to the plan, BSEE is considering significant changes to a well control and blowout prevention system rule which Obama's Interior Department finalized in April 2016. That rule, developed in response to BP's Deepwater Horizon disaster, took years to develop and was revised multiple times. Industry groups have criticized elements of the rule, including frequent testing of the blowout preventers and standardized safe drilling margins, arguing they will increase costs for offshore operators.

## Oil spill contained and cleaned up in Moruga



Clean-up operations have been completed at the site of a ruptured Petrotrin crude oil line in Moruga. Residents of Bachan Trace and Moruga Main Road, St Mary's Village were affected.

The Office of Disaster Preparedness and Management (ODPM) was notified by both the Environmental Management Authority (EMA) and the Princes Town Regional Corporation (Disaster Management Unit) of the oil spill.

According to Petrotrin, 95 per cent of the clean-up has been conducted. The ODPM stated, there were two containment booms, vacuum trucks and other assets still on site ensuring residents are minimally affected.

Chairman of the Princes Town Regional Corporation Gowrie Roopnarine said approximately nine households were asked not to use open flames due to the spill.

St Mary's councillor Michelle Benjamin said the situation is under control as officials were working towards rectifying the problem. One affected resident, Nabeel Mohammed said he and his family of four were affected by the spill. He said the stench is their major issue and tries to stay away from their home in order not to inhale the toxic fumes being emitted from the oil.

We are just one of the families affected by the spill. The stench is high and we are having breathing problems we are staying away from home as much as we can because the smell is really bad. We were given the assurance that we will be compensated because the heavy equipment has to pass through our property and it is being damaged. So we will wait and see but right now they are cleaning up the place," said Mohammed.

The ODPM called on any resident still affected to visit the nearest health facility or contact the Princes Town Regional Corporation at 800-PTRC (7872).



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