

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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OSI 2016 Unveils in Mumbai after 3 successful editions at Goa



In year 2011, the Indian Coast Guard, Directorate of General Shipping, Oil and Natural Gas Corporation Ltd (ONGC) in association with iTEN Media recognized a need for an industry forum to deliberate &

collaborate on response frameworks for Oil Discharges in the region.

As a result, "OIL SPILL INDIA" was conceptualized and founded as an

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DG Shipping Collaborate & Partner with Oil Spill India 2016



At the outset, I hereby convey my compliments to the Conference Chairman, Global Brand Ambassador & members of the Advisory Board of the Oil Spill India (OSI)-

2016, on the launch of the 4th edition of the OSI Conference slated to be held in August 2016 at Mumbai.

Oil Spill India has now come a long way since its inaugural take-off four years ago. I am confident that the OSI would go from strength to strength as years roll by.

The theme of the upcoming conference 'Commitment, Synergy & Excellence' is extremely contemporary, topical and futuristic. The sheer scale of maritime incidents like oil spill are so daunting & challenging that we need to collectively push the frontiers of cutting-edge technology and innovation that would drive synergies in planning, prevention, response, containment & restoration efforts to redress, mitigate & pre-empt such incidents, going forward. While technology, knowledge & innovation are the need of the hour, there is a compelling imperative for

capacity building / human resource development and creation of a very calibrated & dispersed awareness.

There are a multitude of stakeholders who need to be on board this vital national disaster response preparedness mission. To be fore-armed is to be fore-warned. In the run-up to the event it is extremely crucial that there is mass dissemination of information & awareness about this theme as the same is at a discount, largely. Looking at the climate change forces & dynamics at play, globally, the future generations will clearly hold us as having been derelict if we do not contribute individually & collectively towards the cause of environmental protection.

While I look forward to the OSI Conference in August 2016, please be assured that as the National Maritime Administration of India, the Directorate General of Shipping, Govt. of India will be more than happy to collaborate and partner with the OSI 2016. I exhort all the stakeholders involved in this extremely challenging, complex task and convey my best wishes for the success of this event.

Shri Deepak Shetty, IRS

Director General of Shipping & Additional Secretary to the Govt. of India

OSI 2016 Unveils Continued..



industry led conference and exhibition. Today, Oil Spill India is one of the world's top 3 conferences & exhibitions on Spill prevention, preparedness, response & restoration systems that has over the years created a global forum for governments, regulators, industry, academia and response organizations to discuss, deliberate, share & learn the best practices, technologies & experiences on spill management industry. Launched in 2011 at GOA, it is a unique event hosted in India and has been a frontrunner in addressing



the impacts of spills at National & International level, which brings together the global experts under one roof.

The platform hosts Indian Government Regulators, Key Decision Makers, Environmental Trustees, Nodal Agencies, Maritime Administrations, Oil Majors, Ship-Owners, Managers, Operators, Salvage Companies, Classification Societies, P&I + H&M clubs, Training Institutions, Oil Spill Associations, OEMs & response agencies, Global players & Partners.

Recently, in a prolific venue in Mumbai, 4th edition of Oil Spill India 2016 was launched by the Honourable Chief Guest - Shri. Deepak Shetty, IRS, Director General



Shipping, Ministry of Shipping, Government of India. The launch event was attended by top industry dignitaries in addition to elite Advisory Board members.

Leading Global Associations Support Oil Spill India 2016

Over the past 5 years & 3 editions, the success of OSI has been a reflection of the efforts of its committee & supporters. The landmark 4th edition of this international conference & exhibition is supported by Directorate General of Shipping, Ministry of Shipping, Government of India, Indian Coast Guard, Indian National Shipowners' Association (INSA), International Salvage Union (ISU), International Tanker Owners Pollution Federation (ITOPF), International Association of Classification Societies

(IACS), The Norwegian Spill Control Association (NOSCA), Marine Emergency Mutual Aid Centre (Middle East), Indian Private Ports & Terminal Association (IPPTA), Foreign Owners Representatives and Ship Managers Association (FOSMA), The Maritime Association of Shipowners, Shipmanagers and Agents (MASSA), Company of Master Mariners of India (CMMI), Institute of Marine Engineers India (IMEI).



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NOSCA
Norwegian Oil Spill Control Association



INDIAN PRIVATE PORTS & TERMINALS ASSOCIATION



OSI 2016 is now supported by over 18 leading trade media partners covering the Global Maritime and Oil & Gas Industries including the following:

Magazines: Marex Bulletin, Maritime Matrix Today, The Marine Opportunity, Safe Secure Magazine, Rimbach, Eco Magazine & The Product Finder etc.

Trade Portals: Cleanup Oil, Intraline Energy, The Shipping Observer, Upstream Online, Gulf Oil & Gas, Alang Info, Kompas India, Topco, Port News, Offshore Arabia & World Oils



As a part of their support to OSI 2016 these media publications & industry portals would be promoting Oil Spill India over the course of next 5 months showcasing event press releases, advertisements, online banners, pre & post event coverages etc.

NATIONAL NEWS**DG Rajendra Singh, PTM, TM takes over as Director General Indian Coast Guard**

Rajendra Singh today took charge as the Director General of the Indian Coast Guard, the first non-Navy officer to be elevated to the top post.

Singh, who belonged to the first batch of Indian Coast Guard in 1980 and was the Inspector General (West region) during the 26/11 terror attacks, took charge from Vice Admiral H C S Bisht.

Bisht will take over as Flag Officer Commanding-in-Chief, Eastern Naval

Command, an official release said today.

Singh was the Additional Director General of the Indian Coast Guard. His elevation as the DG was approved by the Appointments Committee of Cabinet on February 24.

He is the first officer from Coast Guard to head the maritime security agency. The top post was earlier held by officials from the Indian Navy.

The officer has commanded each class of Coast Guard Ship in service, which includes the Interceptor Boat, Inshore Patrol Vessel, Fast Patrol Vessel, Offshore Patrol Vessel and Advanced Offshore Patrol Vessel.

Singh was awarded the Tatrakshak Medal (TM) by the President on August 15, 1990. In recognition of his distinguished service, he was awarded President's Tatrakshak Medal (PTM) on August 15, 2002.

President Mukherjee extends greetings on 39th anniversary of Indian Coast Guard

President Pranab Mukherjee on Sunday extended his greetings and felicitations to all ranks of the Indian Coast Guard and their families on the eve of 39th Anniversary of Indian Coast Guard to be celebrated on February 1.

In a message, the President has said, "I am happy to learn that the Indian Coast Guard is celebrating its 39th Anniversary on February 1, 2016.

"Over the years, the Indian Coast Guard has evolved into a professional maritime force dedicated to the service of the nation. It has lived up to its motto "We Protect" through concerted efforts which have resulted in not only protecting hundreds of precious lives at sea, but also the marine environment surrounding us," he added.

President Mukherjee further said that he is sure that the Indian Coast Guard would continue to discharge its maritime responsibilities in a diligent and responsible manner.

"On this occasion, I extend my greetings and good wishes to all members and families of the Indian Coast Guard. I wish them every success in their future endeavours," he said.

Indian Coast Guard commissions Samudra Pavak pollution-control vessel

The Indian Coast Guard commissioned ICGS Samudra Pavak (203) - the last of three Samudra (UT 517)-class pollution-control vessels - on 14 January at Porbandar on India's west coast.



Built by ABG Shipyard to the Rolls-Royce UT 517 design, the ship's keel laying took place on 12 December 2005, followed by launch on 11 July 2012. At the time, coastguard

officials stated that the ship was scheduled for delivery in December 2012. However, build work was not completed until 28 November 2015 and delivery took place on 10 December 2015. The 94 m, 4,300-tonne Samudra-class vessels are equipped with an array of pollution-control equipment for containment, recovery, separation, and dispersal of pollutants.

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INTERNATIONAL NEWS

Oil Spill Management Market Worth \$125.62 Billion By 2022: Grand View Research, Inc.

According to the new report published by Grand View research, the global Oil Spill Management Market size will reach \$125.62 Billion By 2022 from \$99.5 bn in 2014, growing at CAGR of 3.2%, Increasing sea borne and pipeline transportation of crude oil is expected to support market growth during forecast period.

The global oil spill management market size is expected to reach USD 125.62 billion by 2022, according to a new report by Grand View Research, Inc. Increasing oil spill incidents since the past five years coupled with stringent safety and environmental regulations are expected to remain key driving factor for global oil spill management market. In addition, increasing seaborne and pipeline transportation of crude oil and chemicals globally is also expected to have a positive impact on market growth.

Strict government regulations particularly in North America and Europe for employing safety devices and technologies during drilling and transportation of crude oil have contributed towards market development in these regions. Increasing offshore and pipeline tanker transportation of petroleum products is also expected to increase demand for various oil spill management technologies. Additionally, increasing R&D by key players for efficient and rapid oil spill cleaning is expected to create opportunities for the market over the forecast period.

Pre-oil spill management emerged as the major technology segment in 2014. Double hull technology accounted for over 60% of the global pre-oil spill management market in 2014. Double hulling of ships enhances the durability in harsh ocean weather conditions and arctic areas. Growing seaborne trade between North America and Europe has resulted in increased ship traffic in arctic region. Growing concern towards product losses coupled with stringent regulations regarding transportation of petroleum products in maritime trade is expected to positively impact market expansion.

Emergency Response Phase Concludes For Potomac River Oil Spill

The U.S. Coast Guard / Unified Command announced today it has concluded the emergency response phase of the oil spill at Roaches Run Waterfowl Sanctuary near Washington Reagan National Airport. It is transitioning into a remediation project led by Virginia Department of Environmental Quality.

The Coast Guard and the Department of Energy and Environment will remain available for support but will not have an active role in the remediation phase.

After more than two weeks of response operations, no additional sheening has been observed, and no additional impacted wildlife has been reported.

In total, eight miles of shoreline were

impacted, and there were 29 wildlife fatalities.

Tri-State Bird Rescue & Research is scheduled to release the first 20 rehabilitated birds back into the wild at Belle Haven Park at noon Monday, Feb. 22. "This has been a true team effort across and within all of our agencies, and I want to express my heartfelt thanks to everyone who supported this response," said Lt. David Ruhlig, operations section chief. "Our efforts spanned five jurisdictions and at least 16 governmental agencies, each within their own concerns and specializations. Our common focus on protecting public safety and the environment was the driving force behind this response."



Oil Spill Response Proven Oil Spill Technology

- ✓ Oil Boom systems
- ✓ Skimmers
- ✓ Offshore umbilical
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- ✓ Power packs
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INTERNATIONAL NEWS

China unveils first oil spill response



China's cabinet has approved the country's first oil spill emergency response scheme to be ready by 2020, to tackle increasing risks from offshore leakages, the government said on Monday.

The new regulation - which sets oil clean-up capacity at 1,000 tonnes (7,300 barrels) within 50 nautical miles from shore - came amid a tightening of the country's environmental rules after several oil spills in recent years.

China will be capable of cleaning up 10,000 tonnes of oil discharged in those waters that are prone to high risks and less than 50 nautical miles from the coast, according to a statement on the Chinese government's main web portal.

In addition, coastal cities should be equipped to clean up and recycle 10,000 tonnes of spilled oil, the cabinet said.

By 2020, China will have 191 offshore facilities, 260 emergency boats and 52 onshore facilities as well as trained personnel that can handle emergencies, the cabinet added.

Previously, China had no nationwide oil spill response scheme, according to the cabinet, leaving companies and local governments to set up their own procedures.

ConocoPhillips and CNOOC Ltd have been embroiled in a series of legal claims following oil spills in 2011 in the Bohai Bay that polluted more than 6,200 square kilometers of water.

In 2000, a pipeline blast in the northeastern port of Dalian leaked 1,500 tonnes of heavy crude oil into the sea, and took nearly 8,000 workers and hundreds of fishing boats to clean up.

First responders train for oil spill



It hasn't happened recently in Minnesota, but the Department of Public Safety wants to be sure that if it does, emergency responders know how to react.

First responders and firefighters from 24 different agencies around the state, including St. Cloud, gathered Friday afternoon at Camp Ripley for training on oil containment in the event a train carrying crude oil crashed near a water source.

Kevin Reed, deputy director of Homeland Security and Emergency Management with the Department of Public Safety, said on average, between 20 and 48 trains pass through the state each week. And after accidents in surrounding states brought the issue of train safety to attention in recent years, a 2014 law requires the department

to train responders around the state on the issue.

The firefighters went onto Pharoah Lake at Camp Ripley and practiced cutting holes in the ice in ways that would help them contain oil if it were to enter a frozen lake. Over the weekend, they planned to conduct similar drills on the Mississippi River.

"We put on this training so they can figure out what to do in those first moments if and when something were to come off the tracks and spill into the water," Reed said. "We have to train the way we're going to fight. If there's ice and snow on the water, we need to know how to preserve our natural resources."

Nearly 1,000 scientists in Tampa for conference on BP oil spill

TAMPA — Nearly 1,000 scientists, researchers and environmental experts from all over the globe are in downtown Tampa this week for the four-day Gulf of Mexico Oil Spill & Ecosystem Science Conference.

The 2010 BP Deepwater Horizon oil spill in the northern reaches of the Gulf has spawned a staggering amount of research into the impact on just about every aspect of the Gulf of Mexico.

"We have a ton of data," said Lisa DiPinto, senior scientist for the Assessment and Restoration Division of the National Oceanic and Atmospheric Administration, which conducted the exhaustive study. "We have 13 million records that are available to the public with every type of data available."

Scientists studied the effects the oil spill had on the deep water, off-shore and near-shore ecosystems. They also studied the effects on marine life, including sea turtles, marine mammals and birds.

"We made 20,000 trips into the field and took 100,000 environmental samples," DiPinto said. Scientists studied oysters, vegetation, fish and anything else that could have been splashed by oil in the spill. There's never been a more comprehensive look at the Gulf of Mexico's ecology, she said.

The conference is a chance for scientists to present findings on the topic and share research and discuss ways to make their discoveries available and easier to understand for the average person.

INTERNATIONAL NEWS**Fears increasing of the possibility of a large oil spill in the North Sea**

Danish emergency response teams are fearful that the windmill installation barge Sea Worker, which overturned in the North Sea last week, may begin to leak some of the 178,000 litres of diesel fuel it has on board.

The barge overturned in the North Sea, just two kilometres off the coast of Jutland near Hvide Sande. "We are very concerned about holes in the hull," Kim Bjerg

Vemmelund, the head of Brand og Redning MidtVest. "Our challenge is that the weather right now is still very windy, which would make it difficult to recover any oil that spills."

No leaks yet

Vemmelund said that there is a salvage plan in place for the capsized vessel, but nothing can be done until the weather improves.

A German environmental plane flew over the area this morning to look for any signs of a fuel leak.

Some 15 people were evacuated last week when the Sea Worker ran aground after losing power while on the way to Esbjerg from Frederikshavn.

Alaska adopts new rules for dispersant use in oil spills

Alaska oil spill responders have adopted new rules for the rapid use of chemical dispersant but say dispersant will continue to be considered only rarely, when mechanical cleanup is not practical.

Chemical dispersant has been used on an oil spill just once in Alaska in the last 40 years — in tests during the 11-million gallon crude oil spill that followed the 1989 grounding of the Exxon Valdez oil tanker. The preferred method of cleanup is mechanical, usually using boom to corral oil and skimmers to lift it from the water.

Chemical dispersant does not remove oil but breaks it into small droplets that spread throughout the water column, making it more available to natural degradation by oil-eating microbes. Responders acknowledge chemical dispersant use is controversial but say it can be a useful tool if there's a net environmental benefit.

"We are talking about large, enormous spills of crude oil into the waters that completely outpace the ability of mechanical systems of recovery to move that oil from the environment," said the



Coast Guard's Mark Everett, co-chairman of the Alaska Regional Response Team. "Those are very rare spills."

The new plan was signed Jan. 27 by representatives of four federal entities involved in oil spill response, the Coast Guard, the Commerce and Interior departments and the Environmental Protection Agency, plus the state of Alaska. The plan replaces rules put in place after 1989 but revoked in 2008.

The plan sets up one "preauthorization zone" that would allow a federal on-scene coordinator to authorize mobilization of dispersant and the elaborate gear needed to spread it. A final decision on actually using dispersant would be made after consultation with wildlife experts, tests of the dispersant and other steps.

INDUSTRY NEWS**Industry Looking to Standardize Oil Spill Response Contracts**

BIMCO, the world's largest shipping association, and the International Spill Control Organization (ISCO), a not-for-profit organization dedicated to improving world-wide preparedness for response to oil and chemical spills, recently announced that they are working together to develop a standard contract for the hire of spill response services and equipment. At present, there is no single standard contract for the hire of specialised spill response services and equipment

The move toward a standard contract for spill response services and equipment will greatly assist in ensuring timely spill response in the event of a marine incident. The spill response contract will be an agreement that can be used by a ship owner whose ship has caused a spill and a contractor hired to perform clean-up services. Key issues that the contract will cover include hire payments relating to services and equipment, mobilisation and demobilisation of equipment and personnel, insurance, and the parties' liabilities and responsibilities.

**Oil Spill India 2016**

4th International Conference & Exhibition

11th & 12th August 2016

JW Marriott, Sahar, Mumbai, India

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INCIDENT & OTHER REPORT

Ship spills 80 gallons of oil into Columbia River near Kalama



Washington state officials say 80 gallons of oil spilled into the Columbia River from a shipping vessel near Kalama.

The Columbian reports a 618-foot ship called the Nord Auckland spilled the waste

oil during an internal oil transfer Thursday morning.

Department of Ecology documents say the cause is still under investigation but the source of the spill was secured and no additional spills are expected.

Department of Ecology spokeswoman Krista Kenner says 80 gallons is the amount reported by the vessel and that the spill on deck was larger than that.

She says the spill caused a 45-foot wide oil slick that stretched up to three-quarters of a mile.

U.S. Coast Guard documents say oil was seen near shorelines and wildlife areas but so far no significant accumulations have been found. Department of Ecology and Coast Guard officials are overseeing cleanup.

Russia's Rosneft reports large oil spill on Sakhalin island

Top Russian oil producer Rosneft said on Thursday that around 15 tonnes (110 barrels) of oil spilled off from an idled pipeline on the Pacific island of Sakhalin, while local ecologists say the scale of disaster is far larger.

Rosneft said the spill occurred on Wednesday at the Ekhabi oilfield in northern Sakhalin. The company decided to burn the spilled oil to "minimize ecological damage".

Dmitry Lisitsin, an activist at a local ecological watchdog in Sakhalin, estimated the size of the spill at about 300 tonnes.

"They started to burn the spilled oil, people see massive plumes of black smoke," he said by phone from Sakhalin. "This is a

large spill, and the problem is of a systemic nature," said Vladimir Chuprov from Greenpeace. "Unless oil companies start paying in full, they don't have the motivation to prevent spills," he said, adding that total fines for oil spills in Russia amount to only 10 billion roubles (\$135.2 million) annually. Ecological watchdog Rosprirodnadzor has evaluated the damage from another spill at a Rosneft subsidiary in June in Western Siberia at 270 million roubles, business daily Vedomosti reported. Rosneft estimated the size of that spill at 0.5 tonnes. "Due to dilapidated pipelines, the Russian oil industry spills around 30 million barrels of oil a year - this is 7 times higher than spilled at Deepwater Horizon," Greenpeace said.

53,000 Nigerian oil spill victims press new Shell lawsuits in London

A year after Shell was forced into a £55 million settlement with an indigenous community in Nigeria devastated by oil spills, a UK High Court judge has allowed two new such cases to proceed on behalf of some 43,000 subsistence farmers and fishers whose livelihoods have been wiped out by the same cause.

Two new cases against Shell, the oil multinational, have today been allowed to proceed by in the High Court in London. The cases were filed by London law firm Leigh Day on behalf of two Nigerian communities in the Niger Delta who have been affected by oil pollution: the Ogale Community in Ogoniland and the Bille Kingdom.

INCIDENT & OTHER REPORT

Bomb attacks on pipelines cause massive oil spill in Nigeria

Nigerian residents say multiple bombings of Agip oil pipelines have caused thousands of barrels of oil to pollute waterways, farms and fishing grounds in southern Bayelsa state.

Fishermen say oil flowed unchecked for two days.

A spokesman for Italian parent company ENI says 16 000 barrels of oil per day were lost and the company Monday began working to resume production. The rules of the official's job do not allow him to be quoted by name.

Community leader Eke-Spiff Erempagamo says the spill is "massive, the biggest in years" in the Brass local government area. Residents blamed the explosions on Thursday and Friday on militants who want a bigger share of oil revenues for the producing states. The government said similar attacks last week are costing \$2.4m a day.

Nuweiba oil spill cleared-up, but work in Ras Gharib ongoing: official

An oil spill in Nuweiba harbor has been cleaned up, according to Kawthar Hanafy, head of the Environment Ministry's central department for crisis management.

Hanafy said that authorities had seized a Cyprus-flagged ship called the "Star" in connection with the spill, and legal proceedings had been instituted.

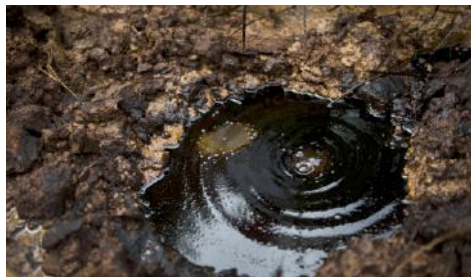
In remarks to the state-owned MENA news agency on Saturday, Hanafy added that oil waste is still being removed from Ras Gharib city in Red Sea province, but the task should be finished shortly.

The pollution in Ras Gharib killed large numbers of fish and other marine animals, say locals, who were unsure where the oil had come from.

Ras Gharib has been the victim of a number of oil spills in recent years, causing problems for wildlife and fishermen.

INCIDENT & OTHER REPORT

Peru declares emergency in Amazon region affected by oil spill



The Peruvian government declared a state of emergency in Morona, a district in the Amazonian region of Loreto, due to environmental damage caused by an oil spill from the country's main pipe line. The oil has already entered various rivers in the Amazon region, affecting the lives of a number of indigenous groups that use them.

Over 3,000 barrels of crude oil has spilled from the North Peruvian Pipeline in Cashacaño according to the state-owned oil company Petroperu and entered a number of water bodies including the Chiriaco and Morona rivers in the region. The emergency called for by the government will last 60 days during which time officials in the Loreto regional government, Datem del Marañon province and the district of Morona will coordinate response and restoration programmes with other government agencies, official daily El

Peruano reported.

Petroperu has promised a full clean-up and is also providing food and water but heavy rains in the area is impeding the work and also helping the oil spread faster.

The indigenous Achuar community is suffering the effects of the spill, the worst of which has prevented them from fishing and left them to survive on "bananas and yucca", Teolinda Lopez, an Aguajun told Al Jazeera.

"Sickness is coming, the river is polluted. Before they didn't use to control the fish or what you ate, but the fish are now are sick just like people," she said.

Leader of the emergency-response team for Petro Peru, Victor Huarcaya, however, insisted that the river water was safe to bathe in and the fish could be eaten. "As Petro Peru, we say it's safe to bathe and you can eat the fish, but the population distrusts us because they don't know oil and its behaviour," he said.

This is the third oil spill the 30-year-old pipeline has suffered in the past month and already over 200 people have fallen sick due to the pollution caused. A number of cases of animals falling ill and dying have also been reported.

B.C. government to introduce 'world-leading' oil spill response law



The B.C. government is set to introduce a new law requiring oil companies to have what it calls a "world-leading" response to oil spills on land — creating a path for industry to meet one of the province's five requirements for heavy oil pipelines.

Environment Minister Mary Polak said the province's existing Environmental Management Act was "really out of date," and the amendments will require companies to prepare for an oil spill on land and clean up after one.

"The biggest change here is the scope" of what a company is responsible for, said Polak, from prevention to cleanup to environmental restoration.

"We're requiring them to be prepared. We're also requiring them to have plans to prevent a spill from ever occurring."

While environmentalists are welcoming tighter rules, concerns remain that no clean-up efforts — world-leading or not — will mitigate damage from heavy oil spills.

TRAINING

Petrofac launches DECC approved oil spill response course

Petrofac has launched a new online training course approved by the Department of Energy and Climate Change (DECC) to address oil spill preparedness.

The DECC Level 1 course is designed for personnel who may undertake the role of Offshore On-Scene Commander (OSC) during an oil spill incident.

The course is split into modules that feature digital animation, video and interactive activities created by Petrofac's e-learning specialists, Oilennium.

Andy Lang, Environmental Response Manager for Petrofac Training Services, said: "Our new offering now complements Petrofac's existing suite of accredited oil spill training courses including DECC Level 2 and 3.

OSI Past Participants