



TROMSOFFSHORE



TROMS OFFSHORE

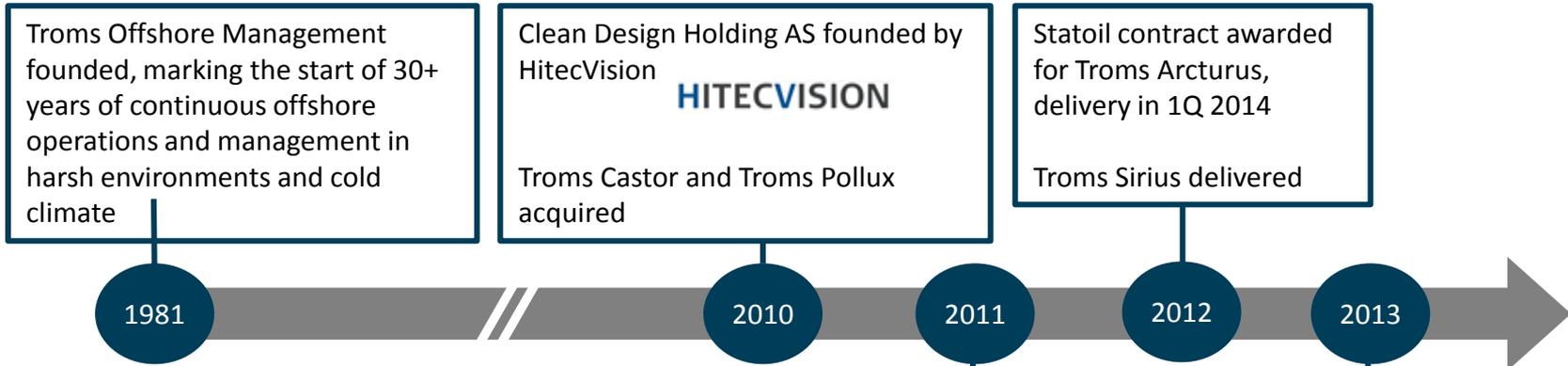
A trustworthy seven seas operation



POSITION **N69°38'7", E18°56'2"**
COMPANY **TROMS OFFSHORE AS**
ORG. NO **NO 988 166 588 MVA**
PHONE **+47 77 67 99 50**
FAX **+47 77 67 99 50**
WEB **TROMSOFFSHORE.NO**
ADDRESS **PO BOX 6155,
9291 TROMSØ, NORWAY**



Company history in brief



Troms Offshore Management founded, marking the start of 30+ years of continuous offshore operations and management in harsh environments and cold climate

Clean Design Holding AS founded by HitecVision

HITECVISION

Troms Castor and Troms Pollux acquired

Statoil contract awarded for Troms Arcturus, delivery in 1Q 2014

Troms Sirius delivered



Clean Design Holding AS acquires Troms Offshore Management, becoming a fully integrated offshore supply shipping company

Clean Design Holding AS renamed to Troms Offshore Supply AS

Long-term ENI contract awarded for Troms Pollux

Troms Capella delivered

Tidewater acquires Troms Offshore



Troms Lyra delivered

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Troms Offshore en del av verdens største OSV rederi - Tidewater

- **Troms Offshore kjøpt av Tidewater mai 2013**
 - Kjøpesum 2,3 milliarder
 - Salget har i mange sammenhenger ført til reprising av norsk offshore tonnasje
- **Tidewater et internasjonalt selskap med en «world wide» operasjon**
 - 318 offshore fartøy i operasjon
 - Strategisk skifte i 2000 – gjenoppbygging av en moderne flåte
- **Kjøpet av Troms Offshore gir markedsadgang til Nordsjøen/ Barentshavet**
- **Nordsjøoperasjon regnes som kompetansemessig krevende**

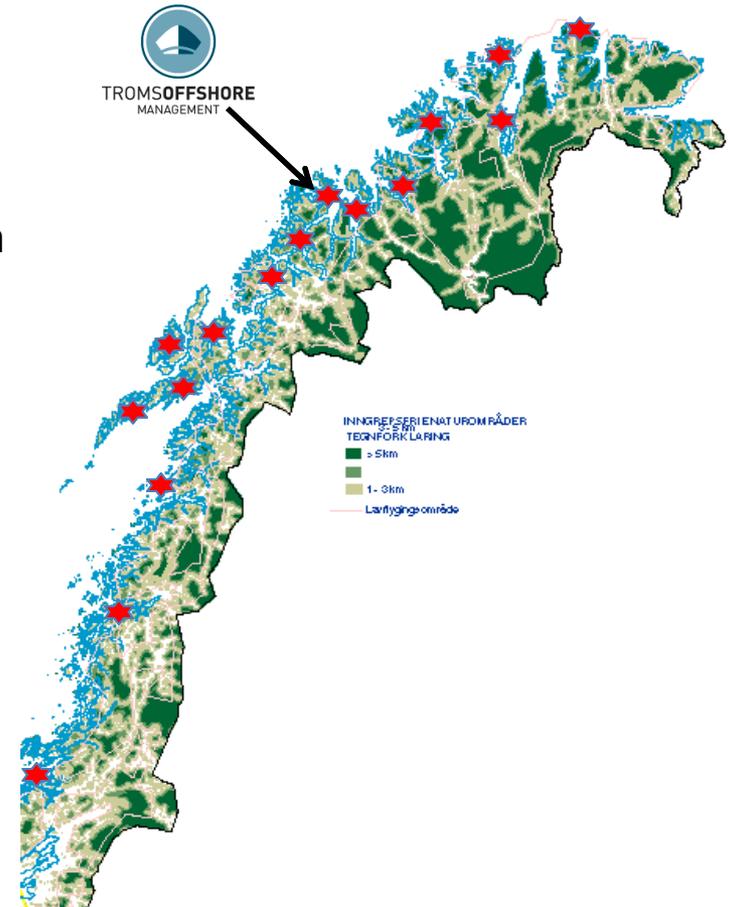


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Troms Offshore - local and regional values

- Troms Offshore has about 350 Norwegian employees (450 total)
- Main office in Tromsø
- About 70 % of our employees are from North Norway
- Employees in 30 municipalities in North Norway (Nordland, Troms and Finnmark)
- From Honningsvåg in the north to Vikna in the south
- Significant employer in many municipalities
- Maritime trainee company (lærlingebedrift)
- Strong focus on quality and certification processes
- Close cooperation with UiTromsø and UiNordland
 - Top officer leadership program
 - Maritime Arctic Competence Program
 - Arctic Experience team



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Troms Offshore - local and regional values



- More than 30 new jobs in municipalities in Northern Norway
- 40% of annual operating costs goes to purchases from suppliers in Northern Norway

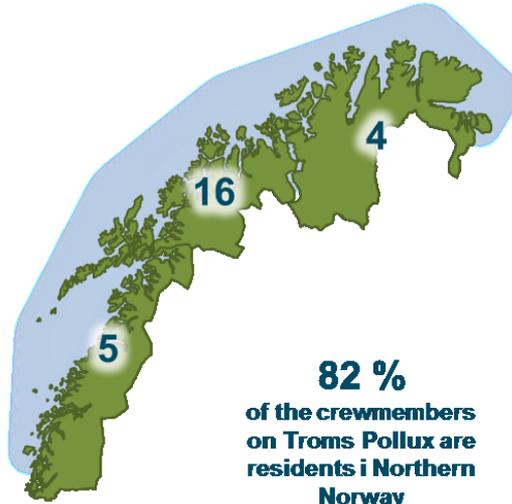
An assessment of the regional extended effects if Troms Offshore is awarded a long term contract for the provision and operation of a offshore service vessel in the Barents Sea



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Troms Offshore - local and regional values

Regional employees at Troms Pollux



	MUNICIPALITY	EMPL.
FINNMARK	NORDKAPP	1
	HASVIK	2
	ALTA	1
TROMS	SKJERVØY	2
	KARLSØY	2
	LENVIK	3
	TORSKEN	1
	SØRREISA	1
	BJARKØY	1
TROMSØ	6	
NORDLAND	ØKSNES	1
	VÅGAN	1
	VESTVÅGØY	1
	STEIGEN	1
	BODØ	1
NORTHERN NORWAY		25
OTHER REGIONS		5
TOTAL CREW		38

The operation will give more than 30 new jobs in the northern Norwegian municipalities

The total regional added value is estimated to about 50% of the total contract value

Aggregated regional economic added values



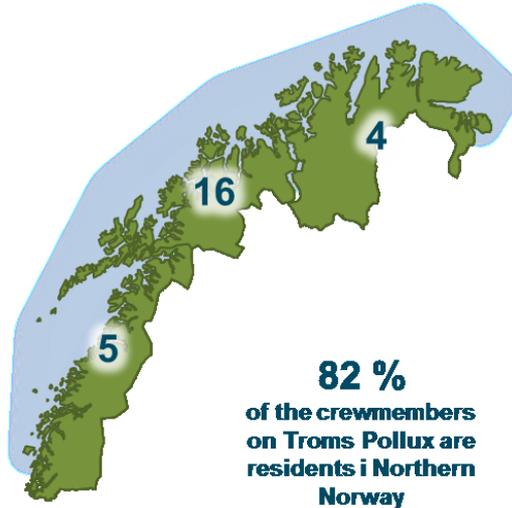
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Troms Offshore - local and regional values

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Regional value of local employment strategy



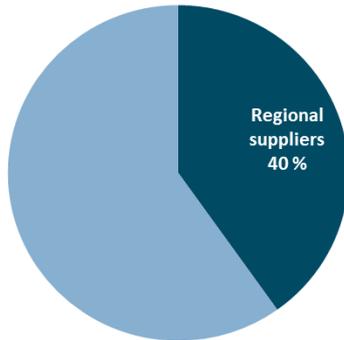
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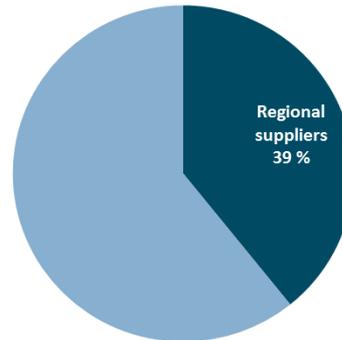


Troms Offshore - local and regional values

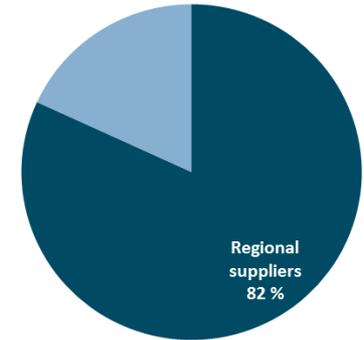
Operating expences, (ex salaries)



Repair and maintenance



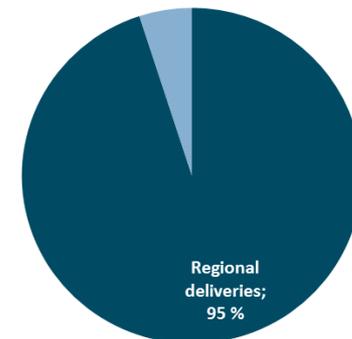
Provisions and supplies



Added value of regional deliveries



Courses and training



Third party management vessels



RV Lance

- Research
- Technical and crewing manager
- Operations area: Barents Sea/ Spitsbergen



RV Helmer Hanssen

- Fishery and geological research
- Technical and crewing manager
- Operations area: Barents Sea/ Spitsbergen



MV Bucentaur, Fugro

- Core drilling
- Crewing manager
- Operations area: Barents Sea, North Sea, Med



MV NSO Crusader

- Supply, emergency towing
- Technical, commercial and crewing manager
- Operations area: Barents Sea and North Sea



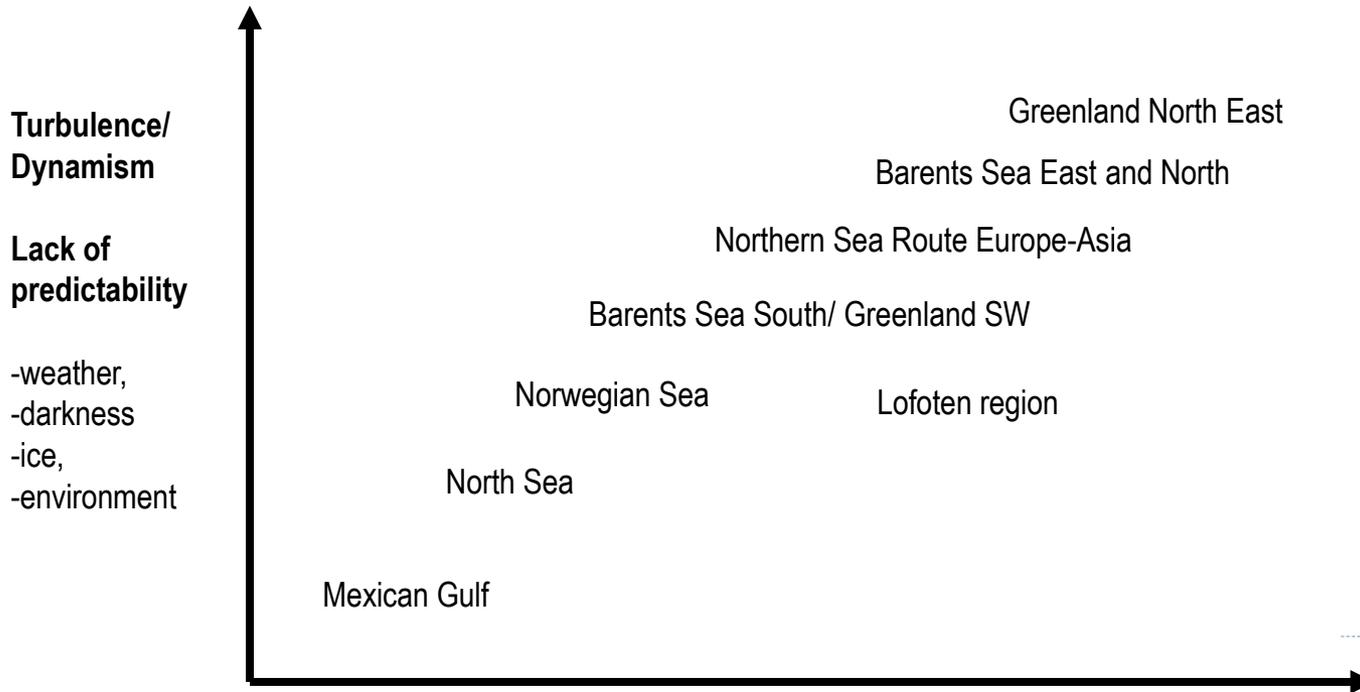
MV Troms Artemis / MV Troms Fjord

- Supply,
- Technical, commercial and crewing manager
- Operations area: North Sea

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Extensive competence, experience, track record and fleet uniquely position Troms offshore Supply

- Building fleet and competence against harsh environment uniquely position Troms Offshore with a competitive edge
- Positioned towards harsh weather and Arctic challenges is opening up for attractive chartering possibilities
- Company value higher compared with peers with diversified fleet designed for harsh



Troms Offshore – focus on leadership

Troms Offshore dedicates a lot of resources on courses and training of it's crew and officers.

Top officers program

Launched for top officers in TOM. This program is developed by the University of Tromsø and HR department in Troms Offshore – and is unique in Norway.

The program can become a part of a master degree for the students in the future.

This leadership program is for masters, coming master and senior office staff. For all the masters the 3 modules that must be completed within 3 years from January 2012.

- **Maritime leadership and management**
- **Culture understanding and conflict management**
- **Safety awareness and operational risk assessment**

5 days program + exam for every module

First program start up in January 2012. Troms Offshore has already assigned 11 masters and 2 senior staff on first program



Arctic training and operations program

Background

Troms Offshore has extensive experience from operating vessels in arctic waters. Based on decades of experience and the desire to keep improving we have established our own arctic operation program.

The Troms Offshore arctic operation program meets or exceeds the IMO arctic guidelines.

The arctic operational program comes on top of standard STCW, IMO and IMCA training for normal operation of the vessels.

Key element of the arctic program

The key element of the Troms Offshore arctic program is to combine new and updated knowledge together with extensive experience from decades in the arctic.

The program is designed so that you can start out as “rookie” on an arctic operation vessel, and end up as an experienced seafarer on an arctic operating vessel.

The Troms Offshore arctic operation program must of course be combined with service on an arctic going vessel – and the program together with experience will give the seafarer the arctic certificate.



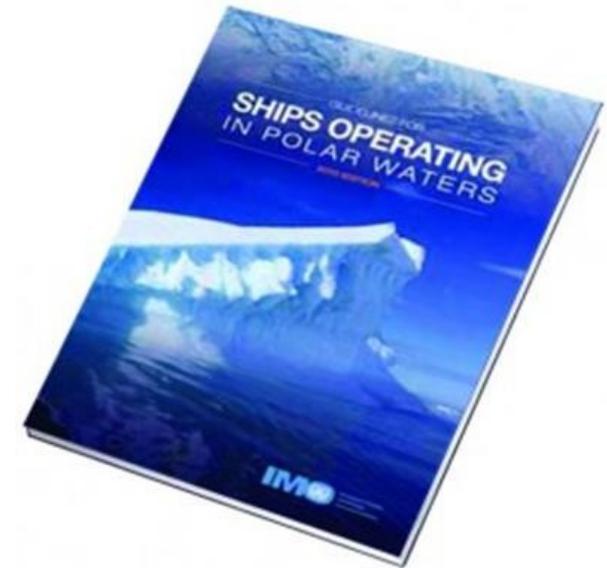
Arctic training and operations program

Operational, safety- and environmental standards

As the industry is going frontier Troms Offshore has taken the challenge to be a leading operator in harsh environment. Prevailing standards within the industry will be altered to meet new rules and regulations. Troms Offshore will work towards new standards and our operation is already above and beyond today's industrial standards.

Troms Offshore is committed to:

- Established operational and safety standards will as a minimum comply with the highest standards applied in the North Sea and as described within Troms Offshore's Safety Management System.
- Established Environmental Management System designed to safeguard the vulnerability of the arctic environment
- Further improvements to be introduced relating to challenges arising from cold-climate operations by incorporating IMO guidelines for Ships Operating in Polar Waters.
- Ensure the top managements commitment and focus to these higher operating and safety standards
- Particular focus on human factors and performance in the arctic climate
 - Management of ship and crew
 - Selection and training of personnel
 - Scheduling and planning of work tasks and work permits



Arctic training and operations program

Maritime arctic competence program

Troms Offshore focuses on additional competence in the arctic

All masters serving on arctic operation vessel must complete [The Maritime Arctic Competence program](#) at the University of Tromsø.

This is a unique program – and very relevant to the IMO arctic guidelines and shall ensure that we are in compliance with section 14.2 in these guidelines

Several of the masters have already completed this program.

The program has 6 modules, and done part time, the average time to complete all 6 modules are 2 years.

- Arctic environment and metrology
- QSHE within arctic operations
- Emergency preparedness
- Arctic environment
- Operation of vessel in ice
- Technologies and developments for arctic operation



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Arctic training and operations program

Arctic clothing and PPE – trough knowledge and testing

Company offshore clothing and PPE

Troms Offshore has developed together with Helly Hansen a specialized clothing and PPE manual for normal offshore operations in the North Sea and for Barents operations.

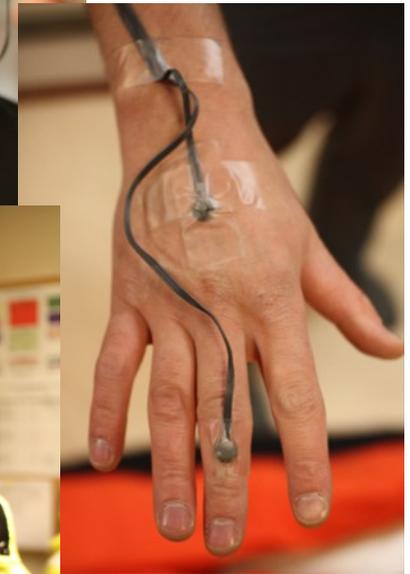
Troms Offshore and SINTEF has tested the chill effect on the offshore crew on our cold climate operations in the Barents sea. **(SINTEF F24012 report- Restricted)**

This research gave us new information and made it possible to adjust our arctic clothing to the offshore crew working in cold climate operations.

Conclusion; Normal offshore clothing and PPE is not “good enough” for offshore crew working in the Barents sea during winter operations.

But by combining some of our specialized arctic clothing designed for research vessel crew – we get an excellent combination for offshore crew working in cold climate operations.

The combination of experience and knowledge make operations safer.



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Arctic training and operations program

Specialized arctic clothing and PPE

Basic layers of wool

The basic layers (Jackets, trousers, socks and balaclava) is made of wool and can be combined together with the normal winter clothing, under the survival suits or under The Sinsalo Extrem suit.

Arctic shoes, gloves, hats and goggles

In the waterproof survival bag (120L) there is special winter boots, winter gloves with inner mitts, Alaska winter hat, snow goggles and face mask. This equipment can be worn separately or together with the Sinsalo Extreme safari suit in case of extreme conditions.

Sinsalo Extrem survival suit

The Sinsalo Extrem suit is the best suit for arctic survival. The suit is specially made for the Norwegian Polar institutes research teams that work in the arctic and Antarctic.

The suit is waterproof and has very thick primaloft insulation technology that keeps the body warmth inside the suite. The suit has special designed pockets for satellite radio, rescue pins and survival equipment.

The Sinsalo Extrem suit combined with the basic layers of wool and other items – is proven to be a excellent solution for survival in the arctic.



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Fagskolens fremtid

- **Næringen krever økt kompetanse**
- **Påbyggingsår?**
 - **Lederskap**
 - **HMS**
 - **Kvalitet**
 - **DP-operasjoner**
 - **Risikostyring**
 - **NORSOK regelverk**
 - **Offshore operasjoner**
 - **Kaldklima operasjoner**
 - **Maritim økonomi**



Troms Offshore – a trustworthy operation



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