



Eidesvik

## Eiesvik Offshore – general presentation



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**Supply  
10 vessels**



**Seismic  
11 vessels**



**Subsea  
5 vessels**



**Revenues MNOK 1000  
Operates 26 ships**

**800 employees  
1 vessel under construction**



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## Latest delivery – Ship of the Year 2013



**Seven Viking commenced 8-year contract to Subsea 7**



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## Construction Vessel to be delivered Q3- 2014





## Last generation seismic vessel







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# Viking Princess – latest delivery PSV



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# Eidesvik – a powerhouse for innovative ship- and operational solutions



SUPPLY  
SUBSEA  
SEISMIKK

**2003 Viking Energy**  
The worlds first LNG cargo vessel



**2004 Viking Avant**  
New design Platform Supply vessel



**2008 Viking Poseidon**  
Environmental friendly X-Bow



**2009 Viking Lady**

Avant design with LNG and fuelcell



**2010 TBN X-bow SX120**  
New class of seismic vessels



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# Celebrating 10 years of LNG-powered shipping!



**Eidesvik**

*Your partner in shipping*

In 2003, Eidesvik Offshore launched the world's first LNG-powered offshore vessel, opening a new era of reduced NO<sub>x</sub> and CO<sub>2</sub> emissions. With five LNG-powered ships, we are proud to still have the largest fleet of offshore vessels running on natural gas. Every day, Eidesvik Offshore is doing its utmost to lead the way with advanced, environmentally-friendly maritime technology.

2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

MV "Viking Energy"  
The world's  
first LNG-powered  
supply vessel

MV "Viking Queen"  
Supply vessel with  
Avant design,  
powered by LNG

MV "Viking Lady"  
500 kWh fuel cell  
propulsion installed

MV "Viking Lady"  
Supply vessel powered  
by LNG and fuel cell

"Viking Prince"  
"Viking Princess"  
Our fourth and fifth  
LNG-powered  
supply vessels



VIKING PRINCESS  
HAUGESUND

Powered by LNG







# Eidesvik' experience with Gas Power

Viking Energy  
From April 2003



First  
generation

Viking Queen  
From January 2008



First  
generation

Viking Lady  
From May 2009

Viking Prince and  
Viking Princess  
Delivery 2012



Second  
generation

Eidesvik has more than 19 ship-years of operational experience with Gas Power



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# Operation



No limitation to operations due to the gas power installations.



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# Fuel economy -

**Viking Prince, delivered 2012.**  
**Second generation LNG tech.**  
**Approx. 25 % reduced fuel**  
**consumption versus first**  
**generation solutions.**



## **Power Requirement** **Reducing Measures**

**New engine**  
**configuration, 2 large +**  
**2 small**

**New hull shape for low**  
**speed – 12-13 knots**

**Power Consumption**  
**Tuning, Econometer**

**LLC – switchboard**

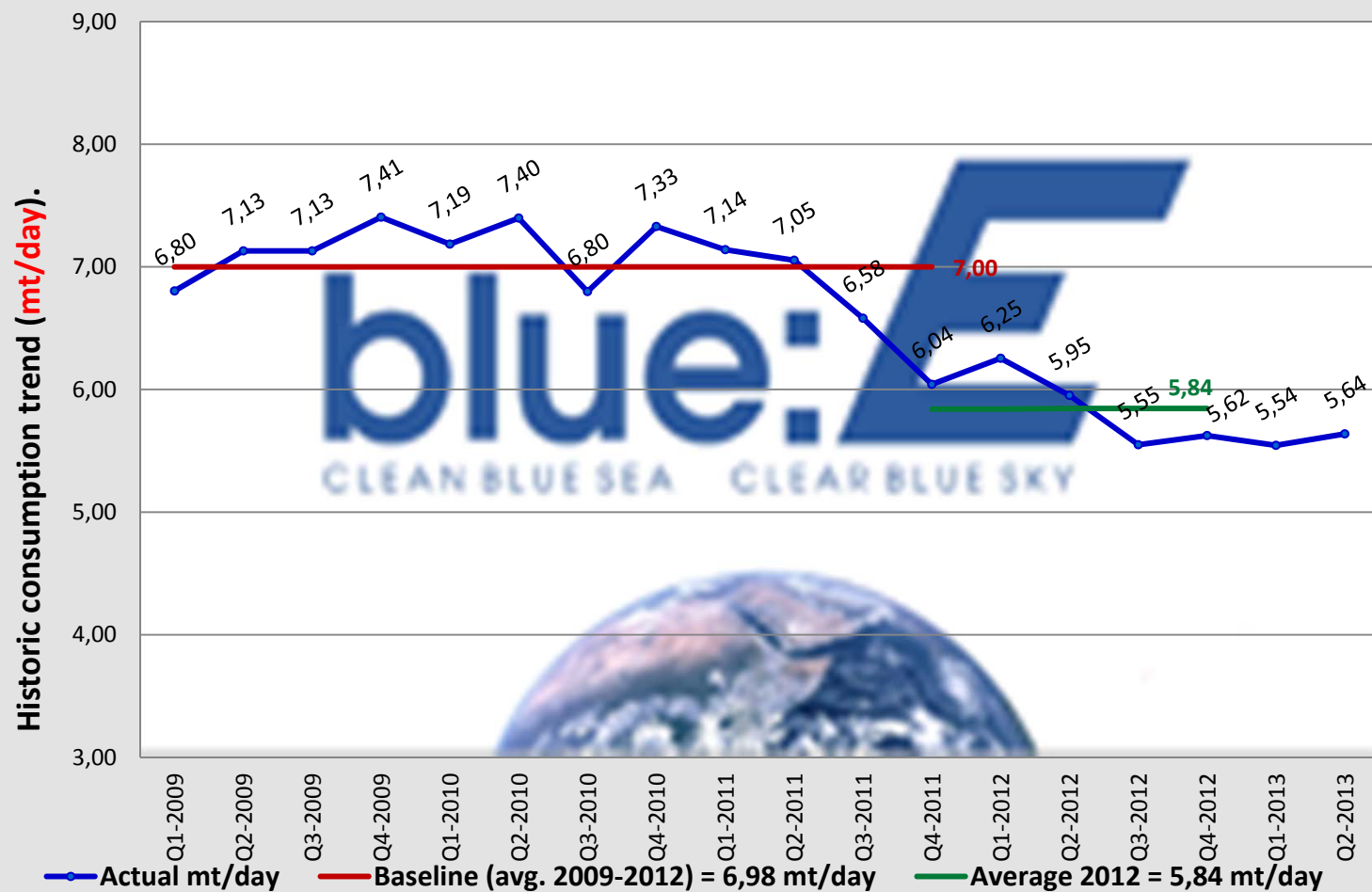
**Heat recovery –**  
**AC/vent.**

**++**

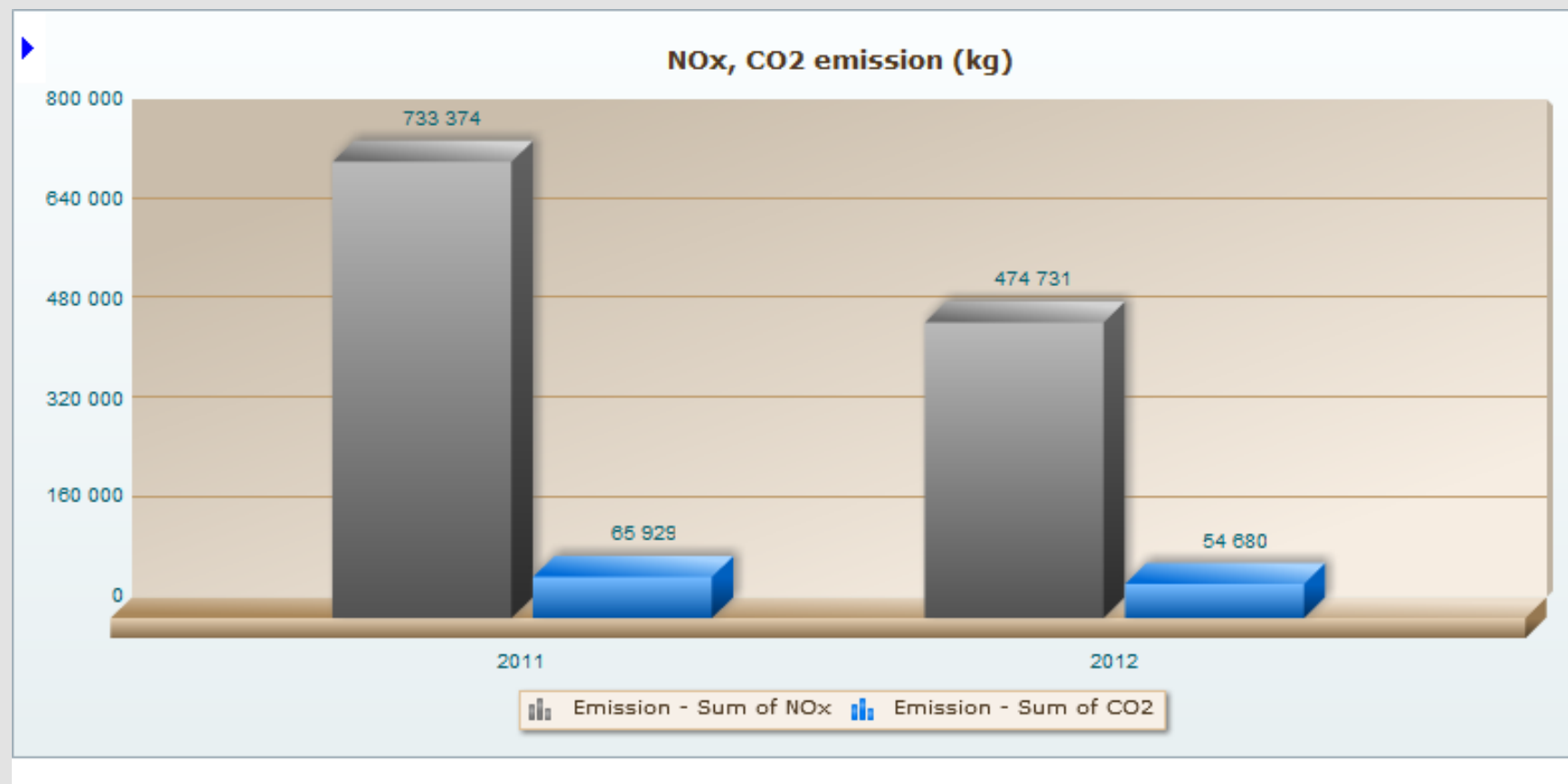




## Consumption of fuel in metric tons pr. day for Eidesvik's fleet of PSVs



## Emission trend





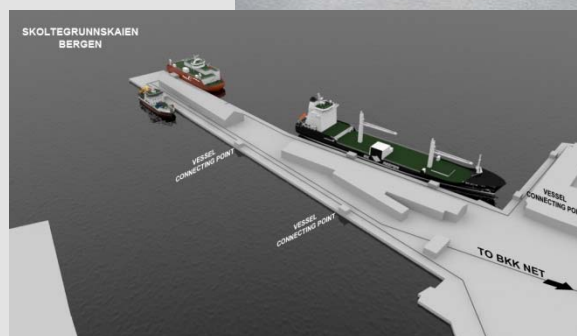
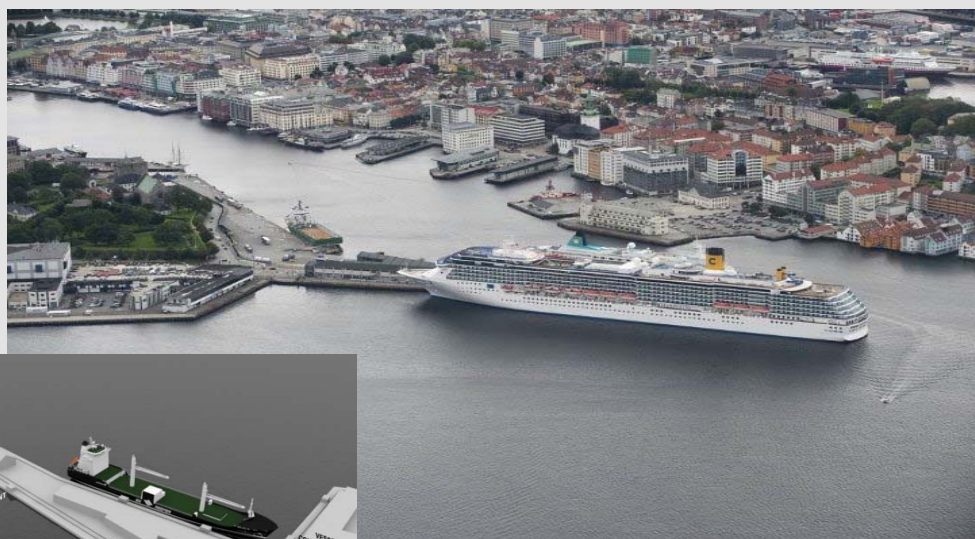
## Major challenges for large ports





## "Bergen Harbour Project

- Harbours contribute heavily to pollution of air
- Strict demands for reduced air-pollution are expected
- Use of hybrid floating power plants can be a part of the solution





## Viking Lady

The only vessel with fuel cell and battery stack for energy production





# Hybrid ship machinery

## FellowSHIP III - Deliverables

**A low emission total hybrid energy system with energy storage.**





Eidesvik

TEKNISKUKEBLAD  
TU.NO BYGG ANLEGG ENERGI INDUSTRI IT



VISER VET: Med batteripakke, brønsecelle og LNG-drift vil Viking

## Viking Lady bli Prius

Skipet som går på LNG og lager strøm

## First True Maritime

March 23, 2012  
DNV and FellowSHIP project  
polymer battery pack to be



Norway's DNV and Eidesvik  
LNG-fueled Viking Lady  
hybrid electric marine  
than two years," D

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Aftenbladet.no Slik rammet 22. juli  
50 sterke historier  
Nyheter Lokalt Energi Meninger Nytte Kultur Sport Fotball Alt innhold TIPS 0515  
Olje og gass Oljeservice Fornybar energi Klima og miljø Arbeidsliv Asergry  
Siste nytt: Nytt skip mot permittering (s. 13-34)



MARITIME  
REPORTER  
AND  
ENGINEERING NEWS  
MARITELINK.COM

## Offshore

- Renewable Energy's Offshore Move
- OSVs & Leading Edge Technology
- Deepwater's \$262B Investment



Interview  
Matt Desch, CEO, Iridium

Region  
Dutch Maritime Industry

STPOST.

"I will work with the pen but also  
with blood"



## Viking Princess - a new standard for environmental friendly shipping

This vessel represents a new generation of environmentally-friendly platform service vessels with great emphasis on fuel economy, low emissions and large capacities both below and on deck. Light ice class (ICE C) makes them suitable for northern waters, sophisticated equipment for an economy (DOL, HEC, NQFO 2008) and capacity for standby vessel further increases market value. Draft weight 16,800 tons, length 60 meters, beam 21 meters, deck space 4,500 m<sup>2</sup>.

## Eidesvik satser mest på unge talenter



RICK PRIS: Styrelser for YoungShip Norge og YoungShip Offshore ASA (Foto: YoungShip v/Trond Ugelstad)



## Heyerdahls miljøpris til Eidesvik

Med miljø- og klimavennlige brønseceller som kraftverk om skip har ført til at Heyerdahls miljøpris i dag er tildelt reiarlaget Eidesvik Offshore.

AV: Thomas Farde  
Publisert: 30 mai 2012 12:34 Oppdatert: 30 mai 2012 12:35  
Det var kronprinsesse Mette-Marit som delte ut prisen onsdag morgen

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Thank you for the attention

[www.vikinglady.no](http://www.vikinglady.no)