



# POLYTEC

SEEING THINGS DIFFERENTLY

## R&D Institute

## Haugesund, Norway



# Polytec R&D Institute (SME)

- Established in 1988 in Haugesund, West coast of Norway
- As of June 2012 there are 56 employees (MSc, PhD).
- Among them, five PhD students and 2 PostDoc.



Seeing things differently

Rough conditions reliable answers

Developing specialists

# Topic of interest FP7

- **OCEAN 2013.3; Innovate antifouling materials for maritime applications**
- **SST.2013.1-2. Towards the zero emission ship**



# Innovate antifouling materials for maritime applications

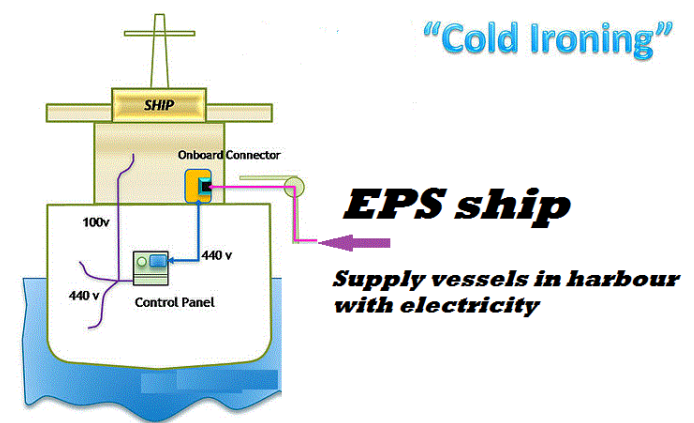
- *Our role for this call will be as a partner to develop new, well beyond the state of the art, antifouling materials together with the consortium and with our US partner who is one of the leading research developers in Antifouling/Super Hydrophobic R&D work. We also represent a big Maritime Cluster, Maritime Clean Tech West, and some of our members are interested in this topic*



# Towards the zero emission ship

- *Our role for this call will be as a partner. Polytec's advantages lie in knowledge, experience, and robust relationships with industrial and academic partners. Polytec has designed a heat-to-electricity system that will significantly add to the efficiency of both new and existing power systems. Additionally, Polytec has experience in designing hybrid machinery plants, using various kinds of power generating components to improve overall efficiency, and maximize power output under volatile working conditions. Furthermore Polytec has extensive experience in sensor and measurement technology, thermodynamic calculations, modelling and simulation, and advanced MetOcean modelling.*

# Examples of ongoing R&D work



## Project idea

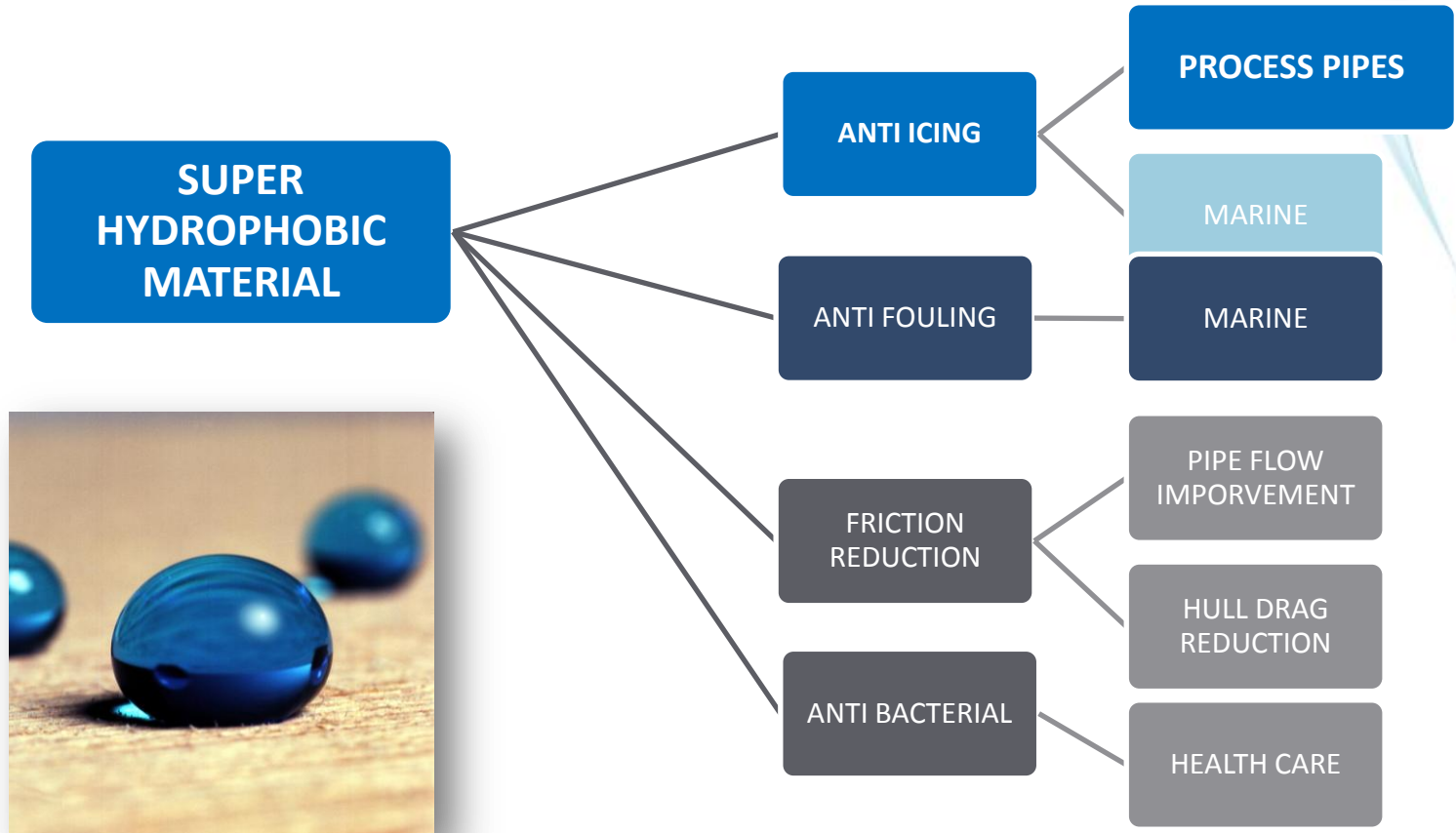
Development of hybrid power generating system for Electrical Power Supply Ship”

## Main Activities

- Overall specification of hybrid system
- Residual heat to electricity
- Development of control system for the hybrid plant

*Polytec is coordinator and responsible for WP; Heat energy to electricity.*

# EXAMPLES OF ONGOING R&D WORK, ANTI-ICING AND ANTIFOULING



# Contact details

## Energy & Environment

Morten Ladstein

Head of Department

[morten.ladstein@polytec.no](mailto:morten.ladstein@polytec.no)

Phone +47 918 58 468

## Process & Transportation

Frode Skaar

Head of Department

[frode.skaar@polytec.no](mailto:frode.skaar@polytec.no)

Phone + 47 909 81 017

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





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