ClearSeas
CENTRE FOR RESPONSIBLE MARINE SHIPPING

Marine Shipping: Indispensable to Canada

PCLC Meeting, Delta Community Office

Dr. Richard Wiefelspuett | Executive Director
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A single ship can carry:

- enough grain to feed 4 million people for a month
- enough oil to heat an entire city for a year
- the same amount of finished goods as 20,000 heavy trucks
Indispensable to the World

• 80% of global trade by volume moves by ship
• Seaborne trade worth $US 13 trillion
• Most carbon-efficient and economical form of transportation
Indispensable to Canada

- Canada’s 18 Port Authorities contribute $25B annually to GDP
- $2.2B in federal & provincial income taxes
- 30% of exports & 25% of imports transported by sea
- 250,000 direct and indirect jobs in Canada related to marine shipping
Marine shipping poses some risks to communities & marine environments

Council of Canadian Academies report
• Regional variances
• Lack of information
How can we ensure that marine shipping in Canada is as safe and sustainable as possible?
SAFETY LAYERS

REGULATIONS

ENFORCEMENT

TECHNOLOGY

INSPECTIONS

TRAFFIC CONTROL

MARINE PILOTS

ESCORT TUGS

COAST GUARD

E-NAVIGATION

TRAINING STANDARDS

MANAGEMENT COMMITMENT

ATTITUDES TO RISKS

ATTITUDES TO SAFETY

SAFETY CULTURE
Research and share unbiased, fact-based information regarding best practices

Facilitate an informed and constructive dialogue
Although Canadian shipping standards are improving, we need to increase focus on prevention... 

...and continue to improve our response regime.
We engage with:

Coastal communities
Indigenous people
Governments
Marine shipping industry
Academia
General public
How We Work

An Issues-based Engagement Process

1. **Issue Identification**
   - Marine Safety
   - Energy Transportation
   - Derelict Vessels
   - Etc.

2. **Stakeholder Identification**
   - Industry
   - Government
   - Indigenous People
   - Communities

3. **Stakeholder Engagement**
   - Concerns
   - Perceived Risks
   - Assess Awareness
   - Provide Information

4. **Problem Identification**
   - Joint Workshop
   - Research Proposition
   - Convene Dialogue

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Clear Seans
Our research aims to:

- Identify world-leading practices
- Fill knowledge gaps
- Disseminate fact-based information
Current Research

- Reducing risk of spills in ship fuelling operations
- Safety guidelines for LNG Terminals worldwide
- Review of Incident Command Systems for oil spill response
- Socioeconomic value of marine shipping in Canada
- Preventing groundings of drifting ships
- Public Domain Pilot Program: Offshore Vessel Monitoring
Improving marine safety
Providing evidence for decision-making
Increasing public confidence
Thank you.