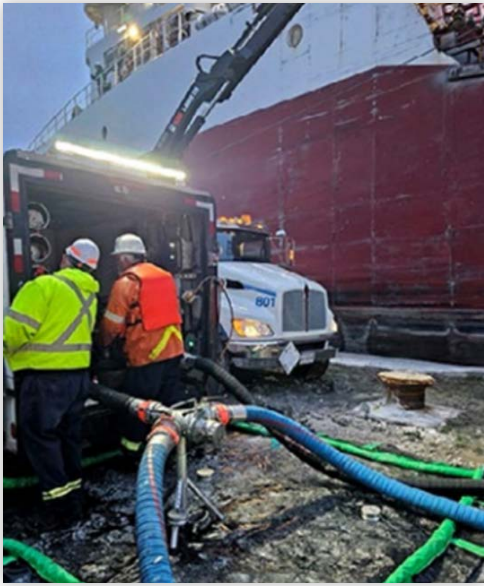


4 Clean Energy on the Seas: Understanding Biofuel

In this activity, you will be learning about biofuel, its benefits for the environment, and how it helps reduce emissions from ships.



What is biofuel?

Biofuel is a type of energy source derived from plants and other biological materials. Unlike fossil fuels, which are limited and contribute to pollution, biofuels are renewable and can help reduce greenhouse gas emissions.

How does biofuel work in ships?

Ships use biofuel as an alternative to traditional fossil fuels like diesel. This helps reduce the amount of harmful emissions released into the atmosphere, contributing to cleaner air and a healthier environment. Reducing emissions also helps combat climate change and helps us protect marine life and ecosystems.

Activity 1: Calculate Emission Reductions

Imagine a ship travels 1,000 kilometers using fossil fuel and produces 100 tons of CO₂. If the same ship uses bio fuel and reduces emissions by 30%, how much CO₂ would it produce on the same trip? Show your calculations.

Activity 2: Design a Biofuel Advertisement

Use the backside of this worksheet to design an advertisement for Canada Steamship Lines promoting their use of biofuel. Your advertisement should include:

- A catchy slogan
- One or two benefits of biofuel
- A drawing or visual representation of a ship using biofuel

