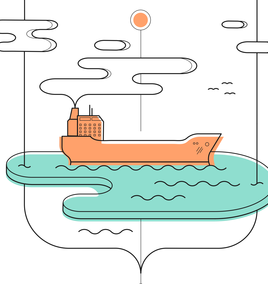
THE COST *of* SHIPPING

Presented by the Smart Green Shipping Alliance

As the **cheapest way** to transport goods, cargo ships are used for **90% of the world's trade movement.**

With big ships taking to the seas at an ever increasing rate, we simply can no longer ignore the **negative effects** they're having on our environment.



This very minute, **20 million shipping containers** are making their way across our world's oceans.

WHAT'S THE PROBLEM?

Shipping is cheap. So cheap that, rather than fillet its own fish, it's cheaper for Scotland to send its cod 10,000 miles to China to be filleted and returned to Scotland.

The cost of shipping may be financially low for consumers, but the **cost to the environment is high.**

POLLUTION:

Just one of these container ships, some the length of six football pitches, can produce the **same amount of pollution as 50 million cars.**

EMISSIONS:

If the shipping industry were a country, it would be ranked between Germany and Japan as the **sixth-largest contributer to global CO2 emissions.**

TOXIC WASTE:

Today, most ships burn bunker fuel, **it's heavy, poisonous and toxic.** It emits more sulphur than other fuels and doesn't evaporate.

WHY SHOULD WE CARE?

IMPACTS OF CONSUMER BEHAVIOR:

The shipping industry is vast and wholly under-appreciated. **90% of everything humans consume** is moved by sea at some point in its life cycle, if not multiple times.

LIFE WITHOUT GLOBAL OCEANIC SHIPPING:

Shipping facilitates global trade, and yet it's mostly hidden from view. **Without shipping, global trade as we know it would cease** and we'd have to become more dependent on domestic resources. Many people would live without things like coffee, chocolate, or heating.

Shipping interconnects almost **everything** we do, and yet we never really think about it. Even the smallest product adds to the **overwhelming cost of transport.**

We must transition to **clean propulsion** in order to ensure we can continue to trade.

100% RENEWABLE POWERED SMALL SHIPS + WIND + BIOFUEL

SOLUTION 1:

A reliable and predictable transport system. **Wind is clean, abundant, and free.**

SOLUTION 2:

Waste from islands can be used to make biomethane, which can power engines and create a closed loop system.

SOLUTION 3:

Redesign naval architecture to be smaller, using less materials and energy.

INTRODUCING THE SMART GREEN SHIPPING ALLIANCE

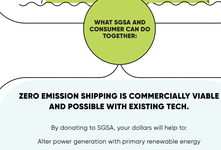
SGSA is an award winning collaboration of that's pioneering maritime renewables.

They utilize 3 strands of interconnected work:

1. Fast tech harnesses the wind
2. Tradewind values the wind
3. Re:Surge monetises the wind

The International Maritime Organisation commits to reducing GHG emissions by 50% by 2050. But how will we get there?

We need to live in a zero-emissions world, and SGSA is creating shipping systems fit for the future.



WHAT SGSA AND CONSUMER CAN DO TOGETHER:

ZERO EMISSION SHIPPING IS COMMERCIALLY VIABLE AND POSSIBLE WITH EXISTING TECH.

By donating to SGSA, your dollars will help to:

Alter power generation with primary renewable energy

Utilize tech to harness the maximum amount of wind, and thereby reduce the burden of fuel cost

Allow ship operators to hedge against commodity fuel price volatility

Radically shift the shipping sector towards zero emissions

Begin the journey that makes renewables=renewables cost-competitive without subsidy

"Predictability in an uncertain world is a luxury. We can be sure that the wind will continue to blow; the sun to rise and tides to turn. Harnessing that energy gives us security and resilience to withstand the winds of change. SGSA is devoting every second of every day to winning this race."

-Diane Gilpin, SGSA Creator + Leader

Together, we can change the course of our world's future.