



About

Power Knot Ocean

Power Knot's mission is to provide safe and economically sound solutions for maritime customers seeking to improve their operations and make a positive impact on the environment.

Our technologies are proven and available today, have been in reliable use for many years, and offer a payback period typically of less than two years.



Keep food waste and plastic out of the ocean

Onboard food waste digester

Power Knot Ocean



Advantages of the LFC biodigester



MARPOL Compliance

Fully certified and in compliance with MARPOL regulations



Prevent Plastic Pollution

Designed to prevent accidental plastics from entering waste streams



Pulper Replacement

Replace antiquated pulpers easily with simple drop-in installation



Organic Solution

Natural digestive process that uses fully organic media and solution



Remote Data Analytics

View statistics on usage, diagnostics, and service schedules remotely with the LFC Cloud



Contact us to learn more

powerknotocean.com

+1-408-889-8433

info@powerknot.com

Stop Ocean Pollution

Over 1.6 billion tons of food is thrown away every year and most of it ends up in the ocean.

This happens because many maritime vessels are still using antiquated food waste solutions which do not meet environmental compliance such as *food pulpers*. These food pulpers can only grind certain types of waste to a slurry which must be held onboard and transported off the ship.

To prevent plastic from accidentally entering the waste stream, food pulper are locked at all times and require oversight by an Environmental Manager.



Modern waste solution

To **meet MARPOL compliance**, ships are switching over to **biodigesters as an onsite organic waste solution**.

The LFC® biodigester is a fully enclosed, automatic stainless steel machine that digests organic waste within 24 hours.

This machine is typically installed in galleys and have safeguards installed to **prevent plastic from entering waste streams**. The output is grey water that can be pumped overboard or treated by the vessel sewage treatment plant.



Pulper vs Biodigester

	Food Pulpers	Biodigesters
Can digest most food waste	✗	✓
Easy to install	✗	✓
Training level required	Medium	Low
Usable without officer supervision	✗	✓
Prevent plastic from entering waste stream	✗	✓
Remote monitoring	✗	✓
Maintenance required	High	Low
Data analytics available	✗	✓
Impact on environment	Medium	Low
Cost	Medium	Medium
Compliance with MARPOL regulations	✗	✓
Odor free	✗	✓



See how an LFC-100 biodigester would look like in your facility



Join our global customers



and many more!