

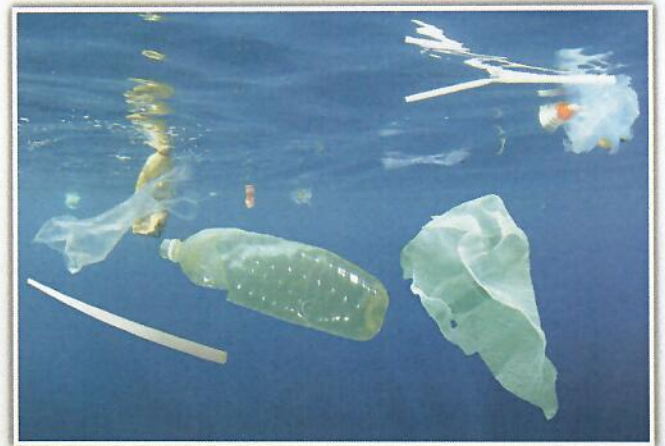
Saving our oceans now...
an innovative solution for a global problem



OCEANS UNITED

A new innovative Solution for the *Ocean Waste Plastic (OWP)*

- ▶ Ocean Waste Plastic (OWP) and Marine Debris Collection using a unique ship design
- ▶ Onboard High Capacity Mixed Plastic Recycling Technology (P2F)
- ▶ Ability to process all grades of plastics
- ▶ Ocean Access (ship time) for Research Programs and Education(STEM) outreach



Global Ocean Plastic Problem

Ocean Plastic is now directly impacting every island and coastline



Ocean Waste Plastic Solution

Recovery of more waste by Recycling it while at Sea
A ship that runs on it's own recycled fuel

50 tons/day

Ocean Waste Recycling, Coastal Cleanup
Support and Island Waste Management

Early collection stops microplastic
pollution before it breaks down



An innovative Solution

iCat-90 Skimmer Vessel

Specifications:

Config.: Tri Deck Catamaran
Length: 90 m (295 ft)
Width: 21.4 m (70 ft)
Height: 20.4 m (67 ft)
Power: Man Twin Engine Eco Dual Fuel
P2F Storage: 265,735 L (70,200 Gal.)
Crew: 11
Passengers 15

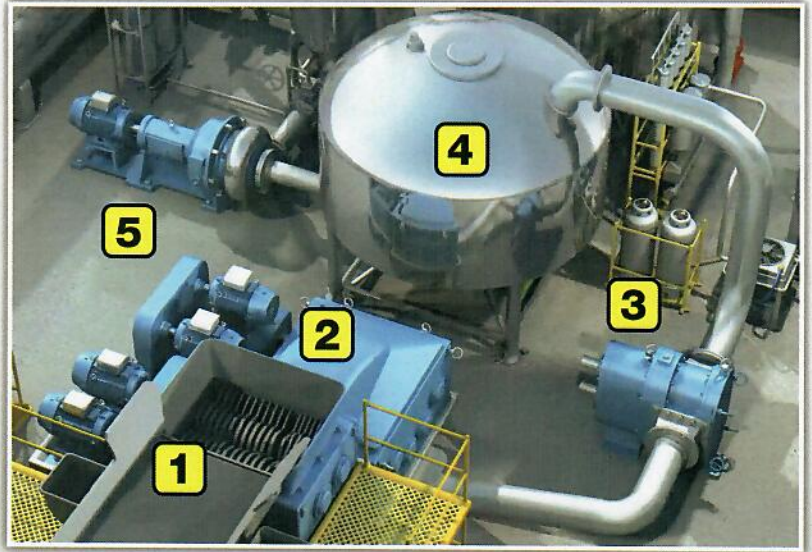


P2F Technology and Process

iCat-90 Skimmer Vessel

Specifications:

- ▶ All mixed waste
- ▶ 50 tons/day
- ▶ 45,300 L/day Fuel output
- ▶ High Efficiency
- ▶ 3 Patents (pending)
- ▶ 20m X 20m footprint
- ▶ Liquid based process
- ▶ 2-person crew
- ▶ Continuous process



P2F Process

- 1-Conveyor 2-Shredders 3-Grinder/Liquefier
4-Blender 5-Slurry Pump

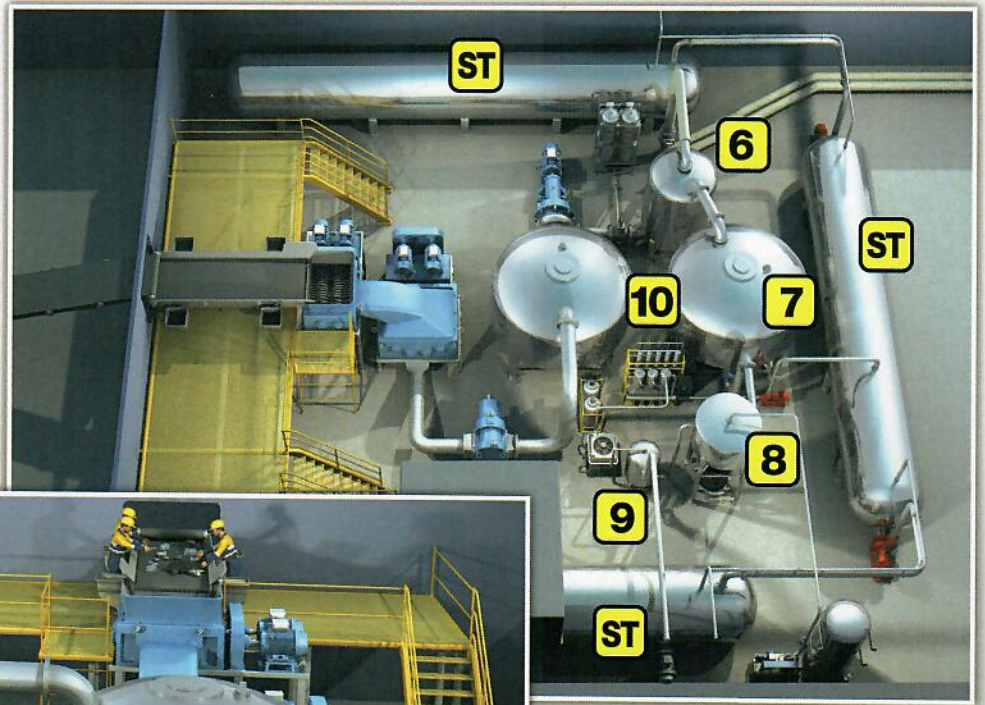
P2F Technology and Process

Operates on Mixed Waste (excluding metal)

Process / Storage

P2F Process (cont.)

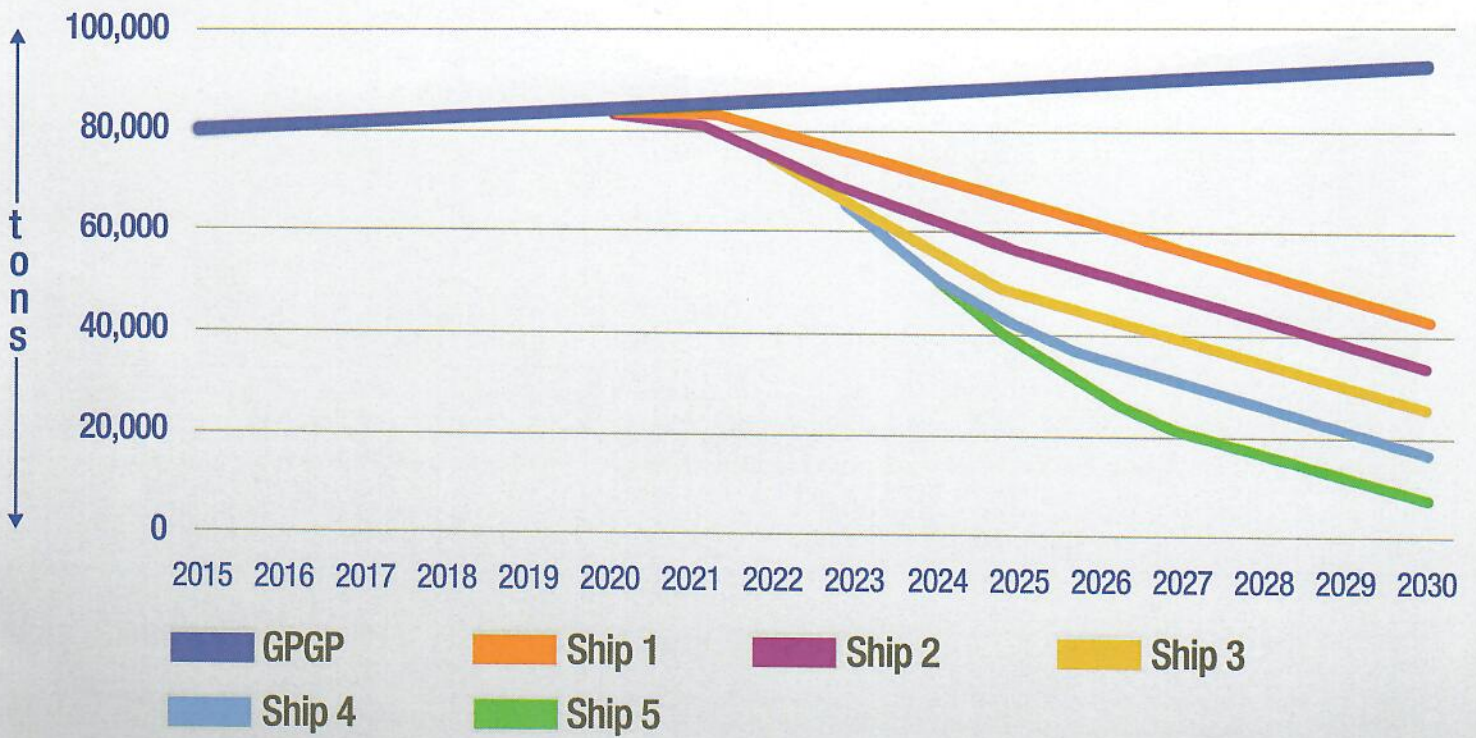
- 6-Preheater
- 7-Reactor Tank
- 8-Distillation Tank
- 9-Heat Exchanger
- 10-Filtration
- ST-Storage Tanks



Control / Observation

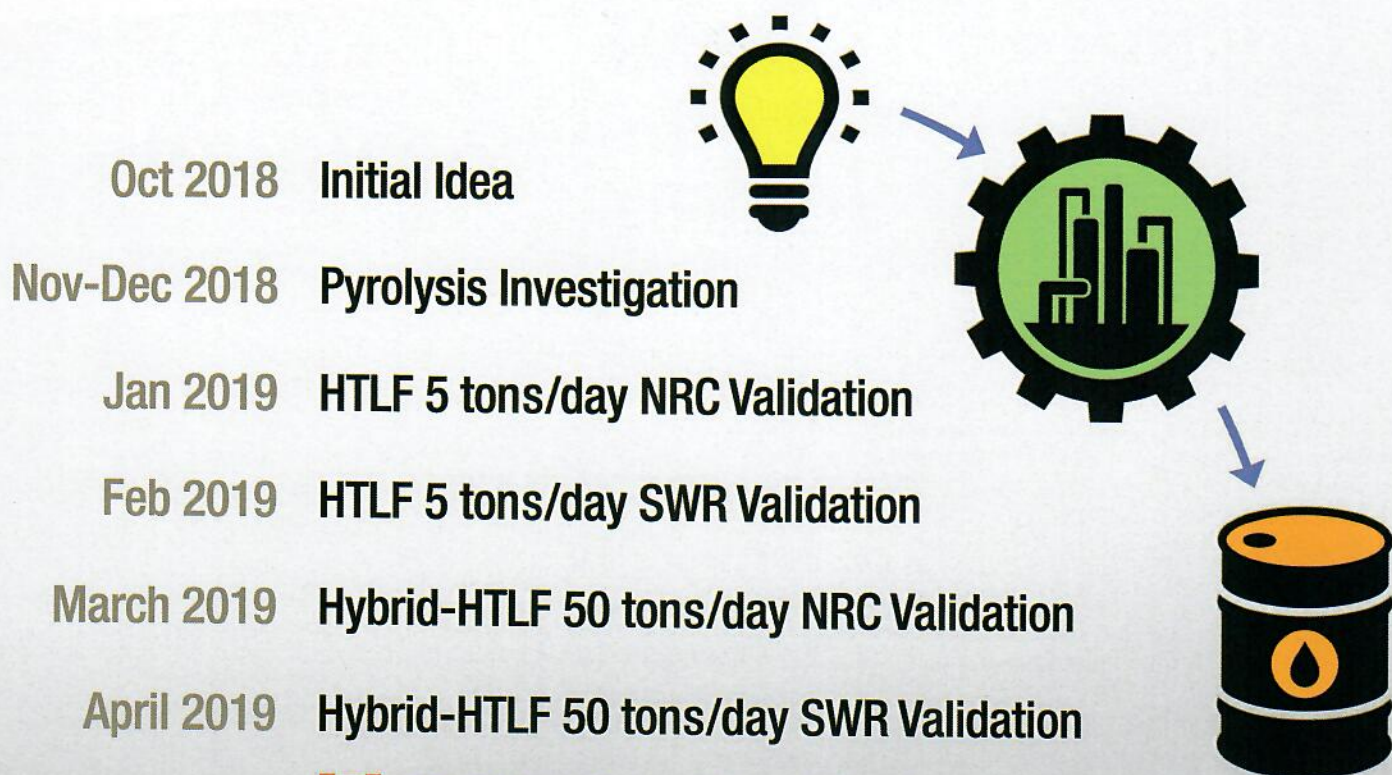



Only direct Action will reduce the GPGP




- ▶ GPGP is 80,000 tons of waste and debris
- ▶ 8 million tons of waste enter the oceans annually
- ▶ Single-use bans alone will not solve the ocean plastic problem

P2F Technology Journey



 NRC (National Research Council Canada)

 SWR (Southwest Research Institute)

50 tons/day unit cleaned and packed and shipped to the UK(Ship 1)



OCEANS UNITED

Is actively looking for
qualified candidates
to join our growing team of
**Scientific and Educational
Advisory Boards**

Please contact Keith Flitner

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“... The World is Aware of the
Ocean’s Waste Plastic Problem
Join us to Take Action Now!”



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