

MARKET GROWTH OPPORTUNITIES FOR EMERGING CLEAN TECHNOLOGIES



Mathilda D'Silva
Founder & CEO
Ocean Purpose Project

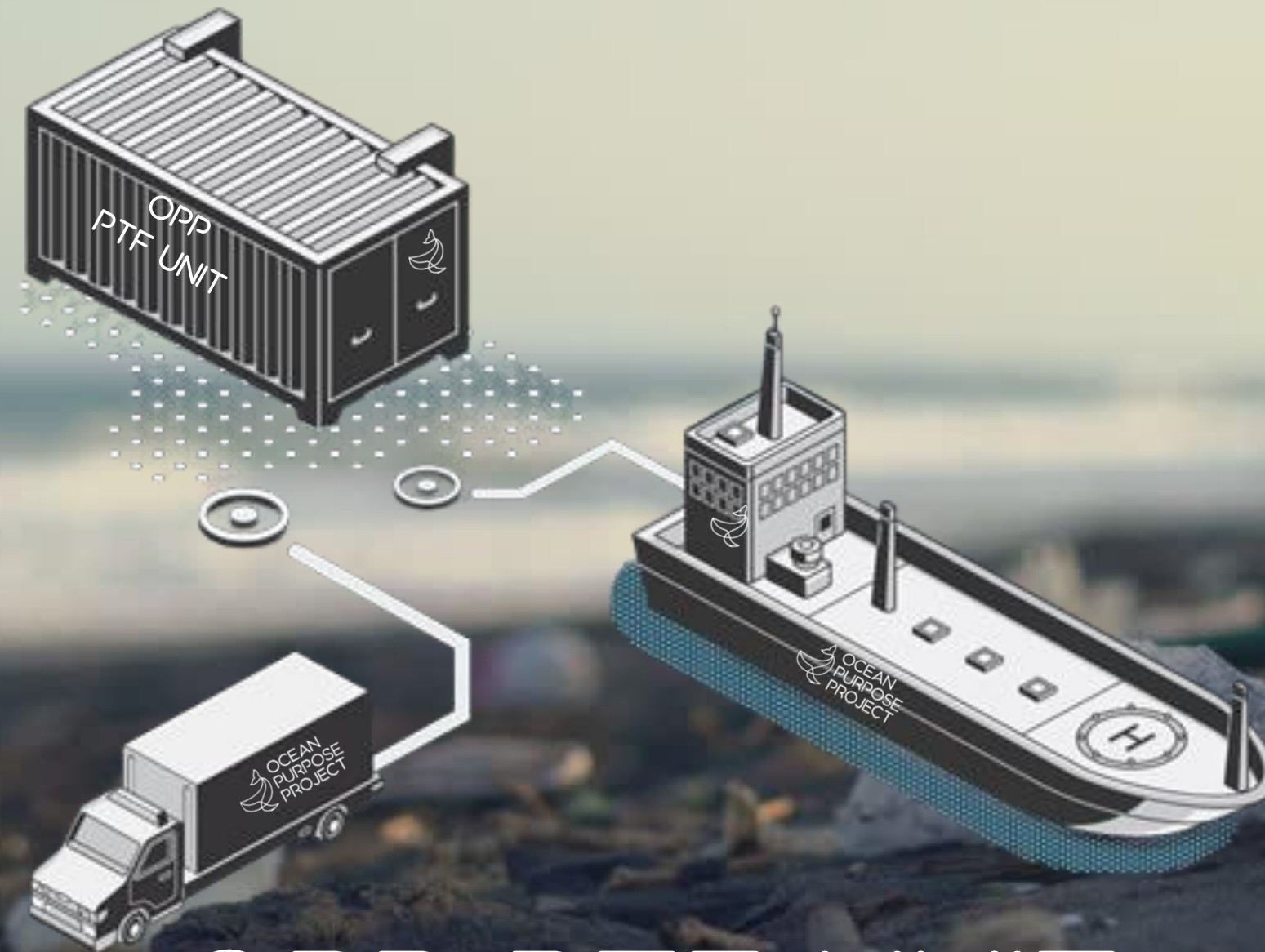


Liming Qiao
CEO and Founder
Future Energy Storage and
System Integration AI



Zhen Hui Eng
Director, APAC
Power Markets Lead
Baringa

Tuesday, 21 April 1:30-2:15 PM



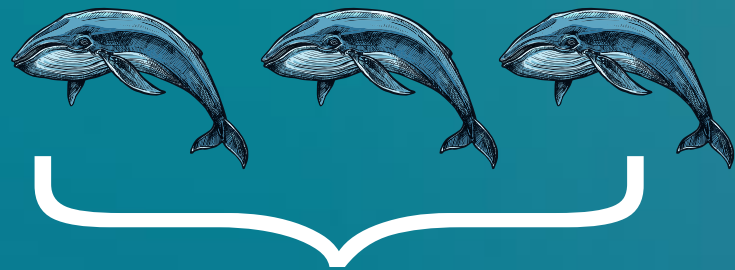
OPP PTF UNIT

THE WORLD'S FIRST MOBILE PLASTIC TO FUEL UNIT TURNING OCEAN PLASTIC INTO HIGH PROFIT



WHAT WE DO: OCEAN PURPOSE PROJECT

HOW DO WE CLEAN OCEAN PLASTIC AT SCALE?



Converts 320 tonnes of unsorted Ocean Plastic into 316 Tonnes High Profit Products.
100% Gas Emission Capture.

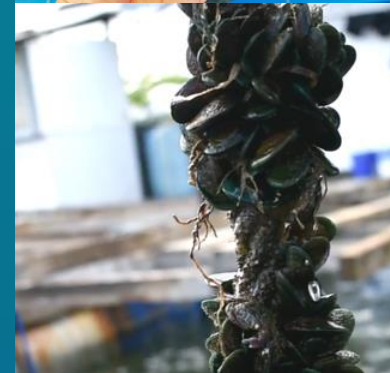


OPP PTF UNIT
TOP 5 IN SHELL STARTUP ENGINE
2020



Climate launchpad, European union
Singapore Grand Finalist, 2020
SouthEast Asia & Oceania Grand Finalist, 2020
Global Grant Finalist, 2020

CAN A NEW 100% BIODEGRADABLE BIOPLASTIC STOP ALGAE BLOOMS?



SG ECO FUND-
1 OF 37 GRANTS AWARDED
MINISTRY OF SUSTAINABILITY &
ENVIRONMENT
2021



SUSTAINABLE OCEAN ALLIANCE
BIOREMEDIATION GRANT
2021

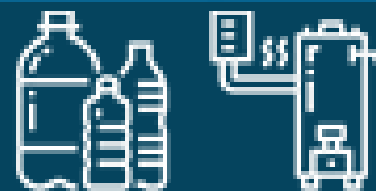
HOW TO WE MOBILISE THOUSANDS OF PEOPLE TO CHANGE BEHAVIOUR?



GLOBAL BRANDS MAGAZINE
MOST SUSTAINABLE MARINE CONSERVATIVE
SOLUTIONS
2020



MARKETING EXCELLENCE AWARDS- SILVER
excellence in corporate social responsibility
2020



Plastic to Fuel

Environment
Economy
Partnership with Fossil Fuels



Bioplastics

New Single Use Plastic
New products and services
New Industry



Behaviour Change

Online & Offline habits
Singapore as plastic to fuel hub
Less greenwashing and more impact



THE ULTIMATE CSR FOR MARITIME INDUSTRY- OUR PARTICIPATION WITH MPA, PSA AND IMO



Ocean Purpose Project aboard the MPA "Mata Ikan" vessel for Joint Oil Spill Exercise 2024 and aboard MPA Guardian for Chem Spill Exercise 2025, Signing of the Singapore Maritime Foundation MOU for ocean conservation



OPP x UN Ocean Conference 2025- Sustainable AI for Blue Economy Coalition, Blue Economy discussions with President Obama, MEPC83 quick chat to Sec. Gen. of IMO, Mr Antonio G.



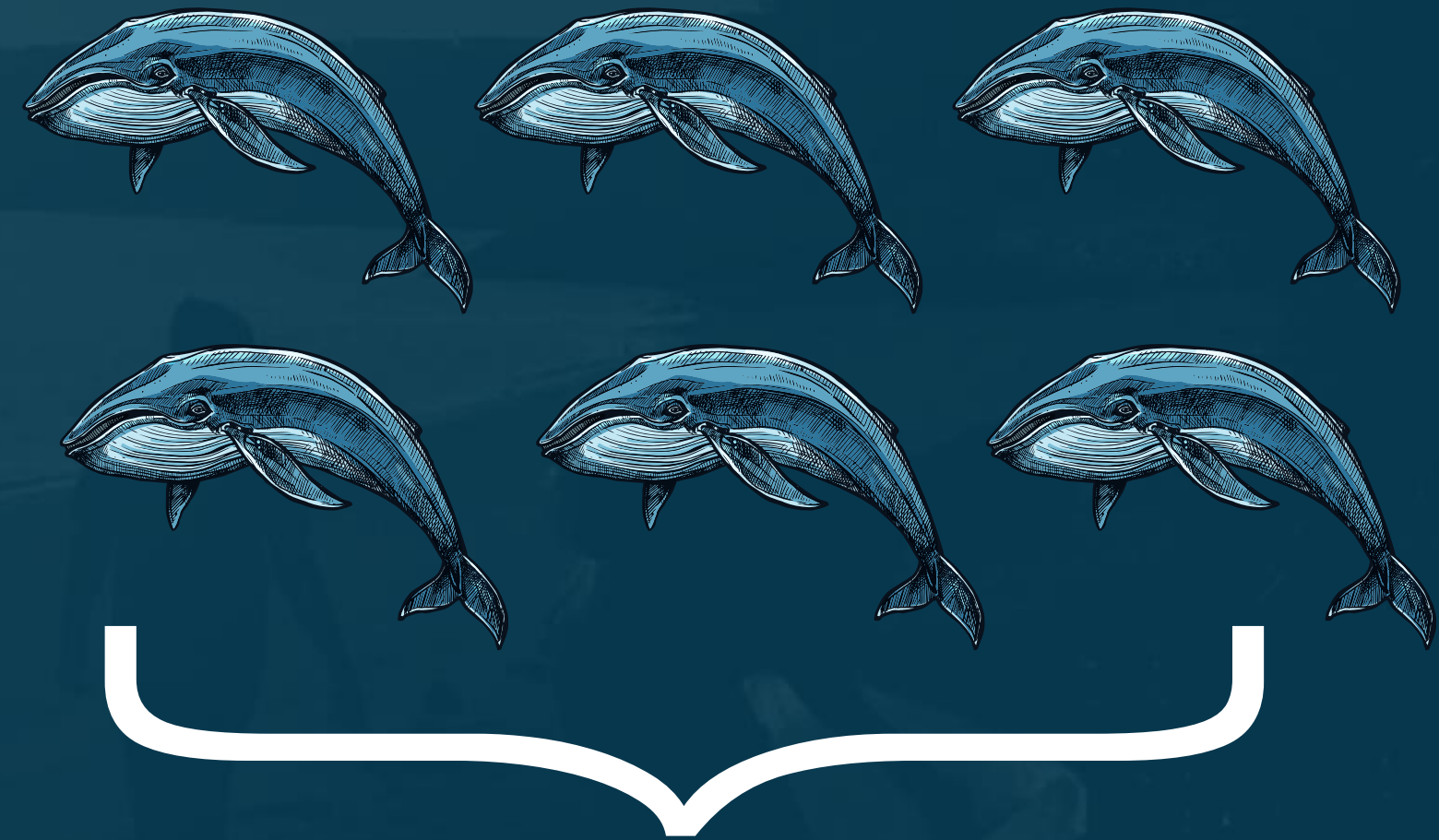
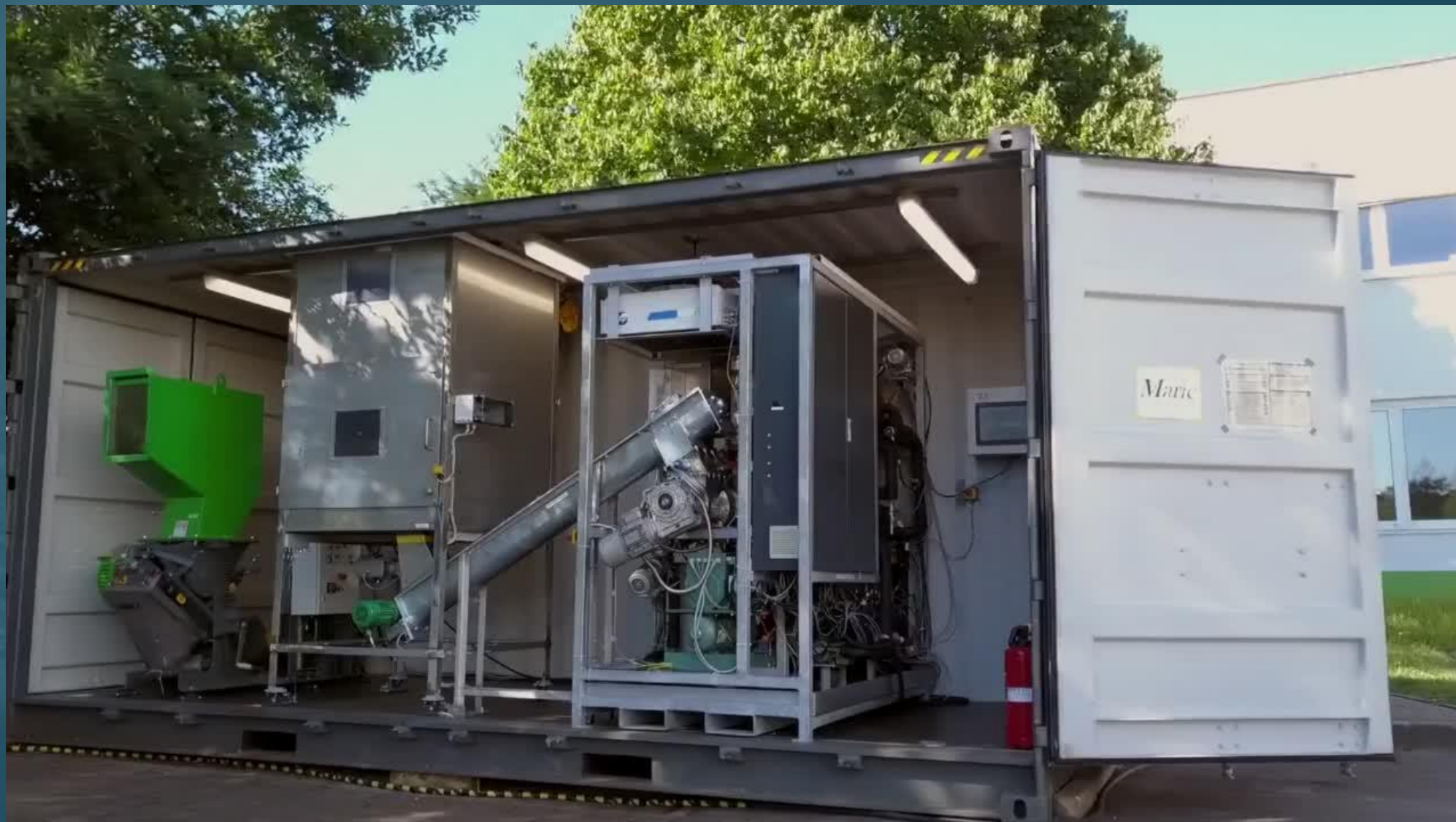
ASIA IS RESPONSIBLE FOR 81% OF GLOBAL OCEAN PLASTIC POLLUTION,

World Bank



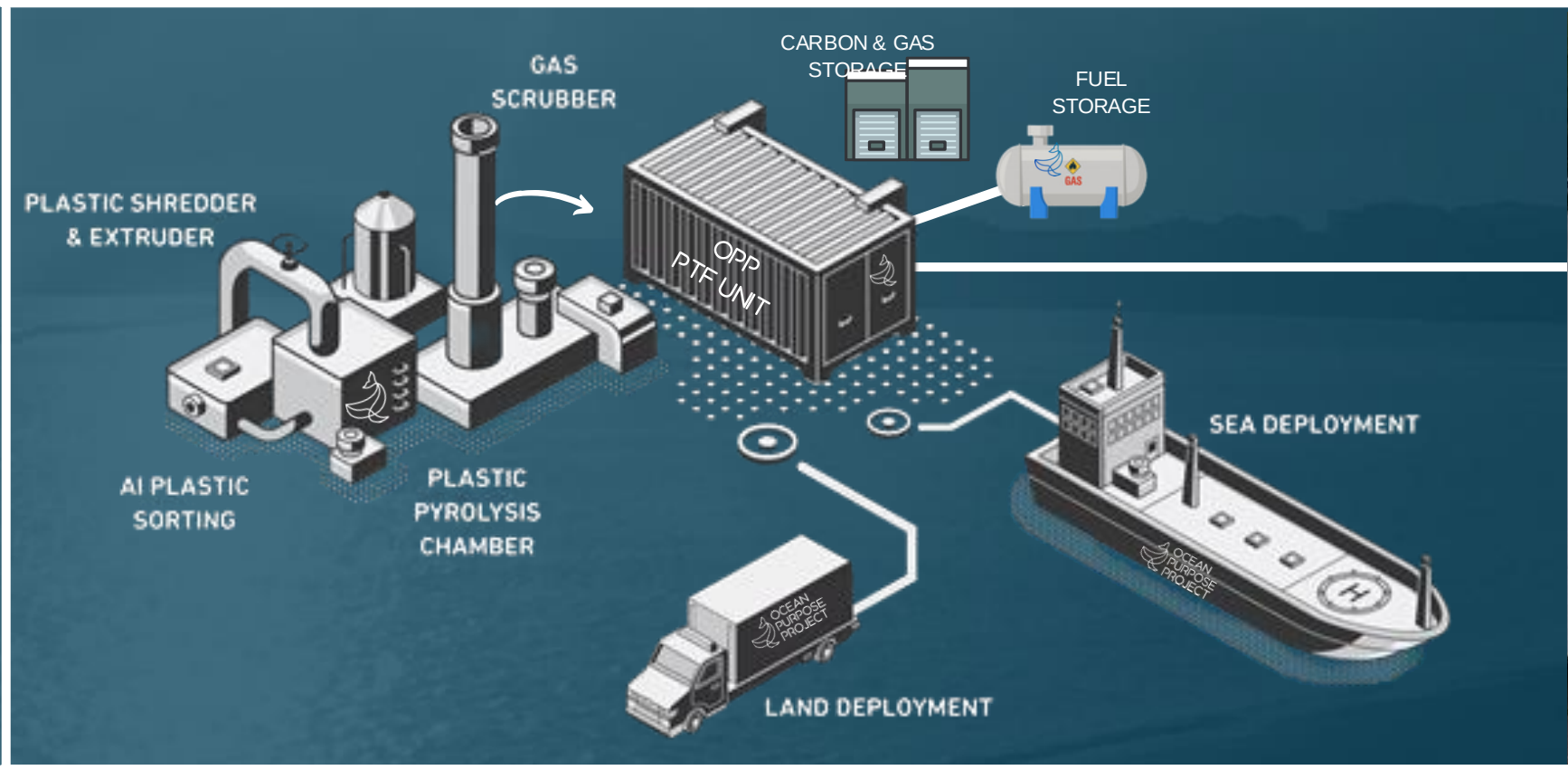
IF PLASTIC COMES FROM OIL,
WHY NOT TURN IT BACK INTO OIL?

2021: OPP PTF UNIT REMOVES 730 TONNES IN WEIGHT (6 BLUE WHALES) OF OCEAN PLASTIC



Converts 730 tonnes of unsorted Ocean Plastic
into 722 Tonnes High Profit Products.
100% Gas Emission Capture.

OPP PTF UNIT - GLOBAL FIRST TO CREATE CARBON NANOTUBES ON THE GO!



DEPLOY	SHRED	PYROLYSE	PRODUCT	MONETISE	UPLIFT POLLUTED COMMUNITIES
Set up Anywhere (Landfill , Ocean Gyres, Flood Relief)	Daily 2 tonne unsorted Ocean Plastic Pollution	Plastic to Fuel Combustion with Yield Monitoring	Low Sulphur Fuel, Wax, Carbon Black, Hydrocarbon Gas	Sale of Products, especially Carbon Nanotubes	Profits fund Community programmes

OPP PTF SECRET WEAPON- HYDROGEN GAS



HYDROGEN GAS
MARKET

USD 120.77

Billion in 2020

Global hydrogen gas market
has a compounded growth rate
of 2.5% from 2020 to 2026

High demand in
multiple sectors

Makes OPP PTF Unit Immune to
fuel volatility

INCREASE DEMAND FOR CLEAN AND GREEN FUEL WITH THE
RISING POLLUTION LEVELS, COUPLED WITH THE GROWING
GOVERNMENT REGULATIONS TO CONTROL AND CURB THE
SULFUR CONTENT IN FUELS

HYDROGEN GAS USES



FUEL CELL CAR



ROCKET FUEL



WELDING



FERTILIZER
PRODUCTION



MARINE FUEL



REFINERIES



WHY NOW?



PLASTIC TO HYDROGEN - SG BUNKERAGE 1ST

BENEFITS:

INCINERATION AT BUNKERAGE TERMINAL
TURN WASTE DISCHARGE COST INTO
UNTAPPED REVENUE

DEVELOP PTF BUNKER BLENDING
SOLUTIONS

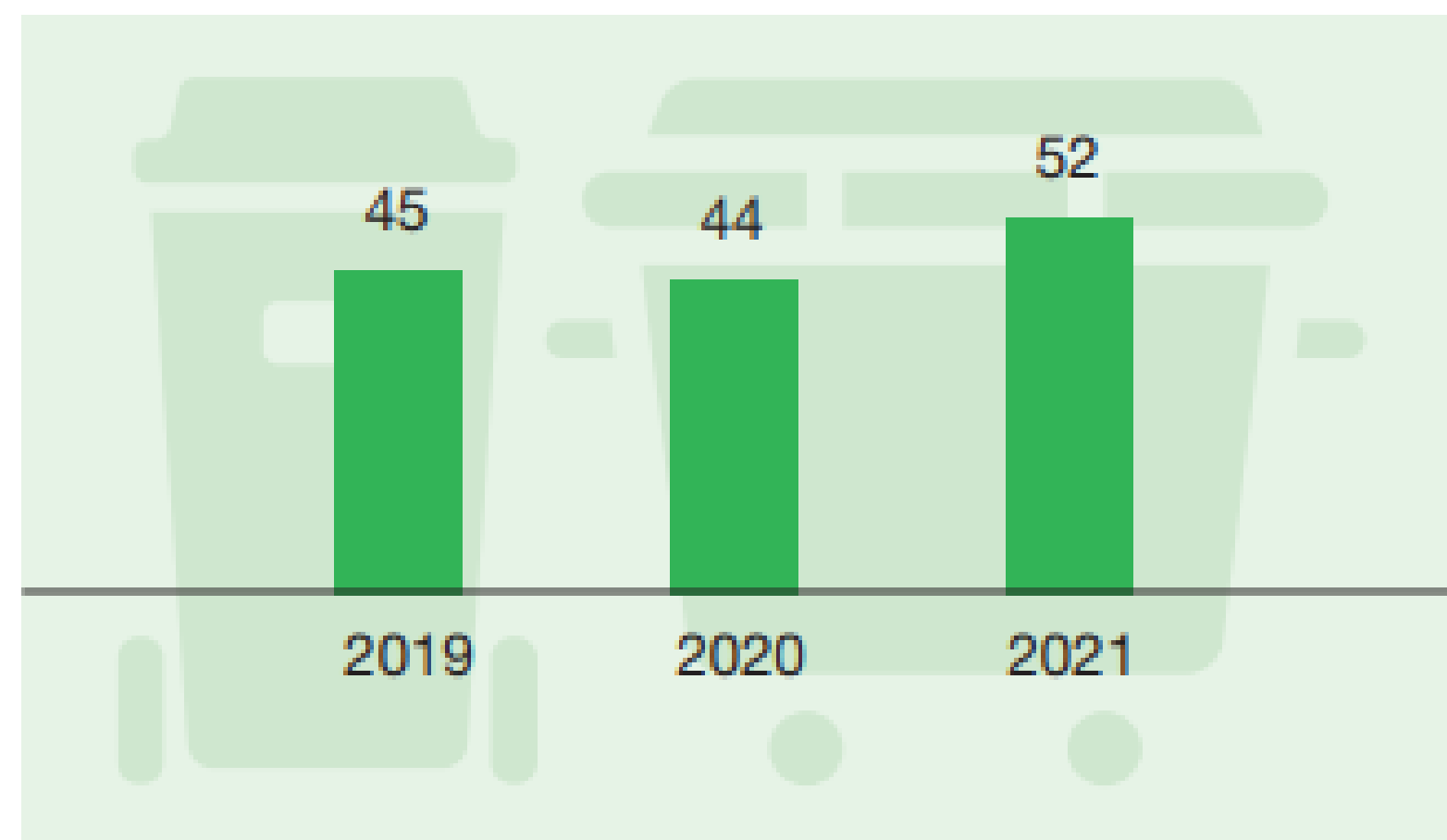
LOWER CARBON FOOTPRINT

ENERGY DIVERSIFICATION

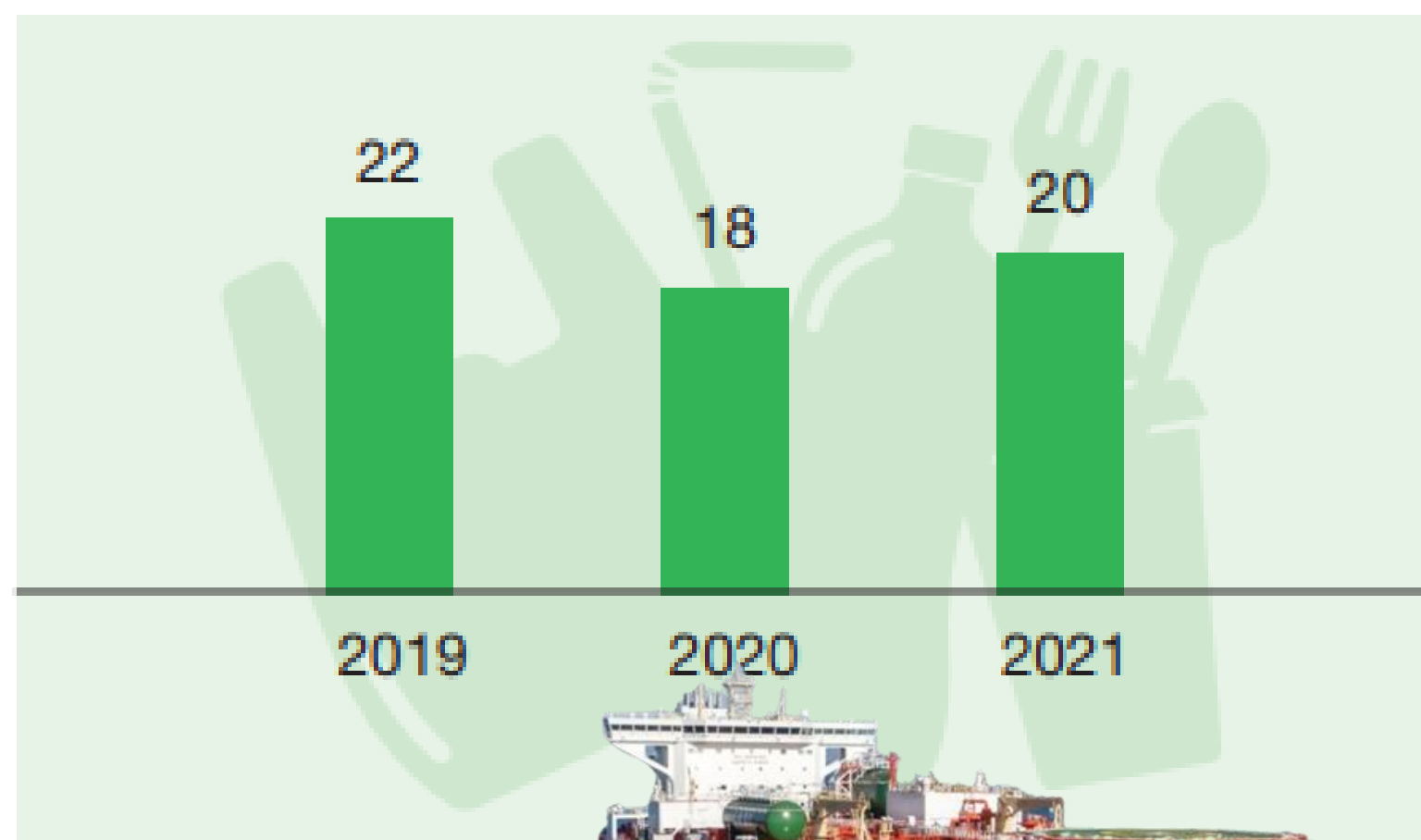
PLASTIC OFFSETS REAL-TIME

2021- 24,000 TANKER ARRIVALS IN SG, 1.1 MILLION TONNES OF PLASTIC, 100,000T OF HYDROGEN OR 809,000T OF LOW SULPHUR FUEL OIL

**Garbage Generation Per Vessel
(m³)**



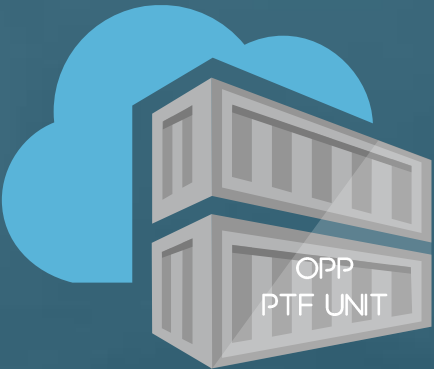
**Plastic Waste Generation Per Vessel
(m³)**



For 2019 and 2020, data from third-party operated vessels was excluded due to data limitations.

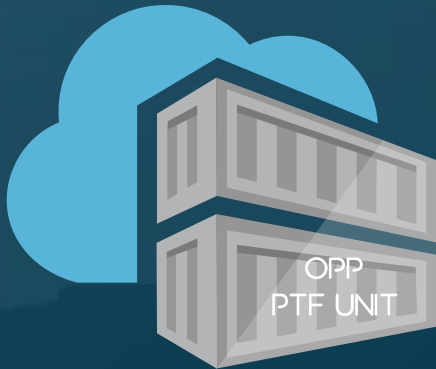


PROJECTED YEARLY REVENUE STREAM (SGD): S\$6.02M



→ S\$1.5 M

SALE OF 1 MACHINE



→ S\$600K

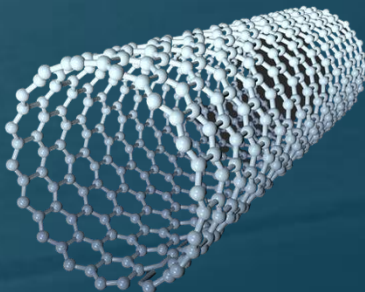
LEASE OF 1 MACHINE



70% PYROLYSED OIL



5% CARBON BLACK



10% CARBON NANOTUBES



10% H₂GAS

→ S\$3.47 M



WSQ CERTIFIED PTF
EDUCATION

→ S\$150K



GLOBAL PTF
RESEARCH BASE

→ S\$150K



GLOBAL PTF
MARKETING AGENCY

→ S\$150K

STRONG TRACTION



7

PROJECT
PARTNERS &
CUSTOMERS

1

TEST SITE

2

YEARS RESEARCH
& STAKEHOLDER
PLANNING

1

OFFSET & CREDIT
DASHBOARD

16

PLASTIC
SUPPLY

3

SUSTAINABILITY
MENTORSHIP



NANYANG
TECHNOLOGICAL
UNIVERSITY
SINGAPORE



ADUPI
ASOSIASI DAUR ULANG
PLASTIK INDONESIA

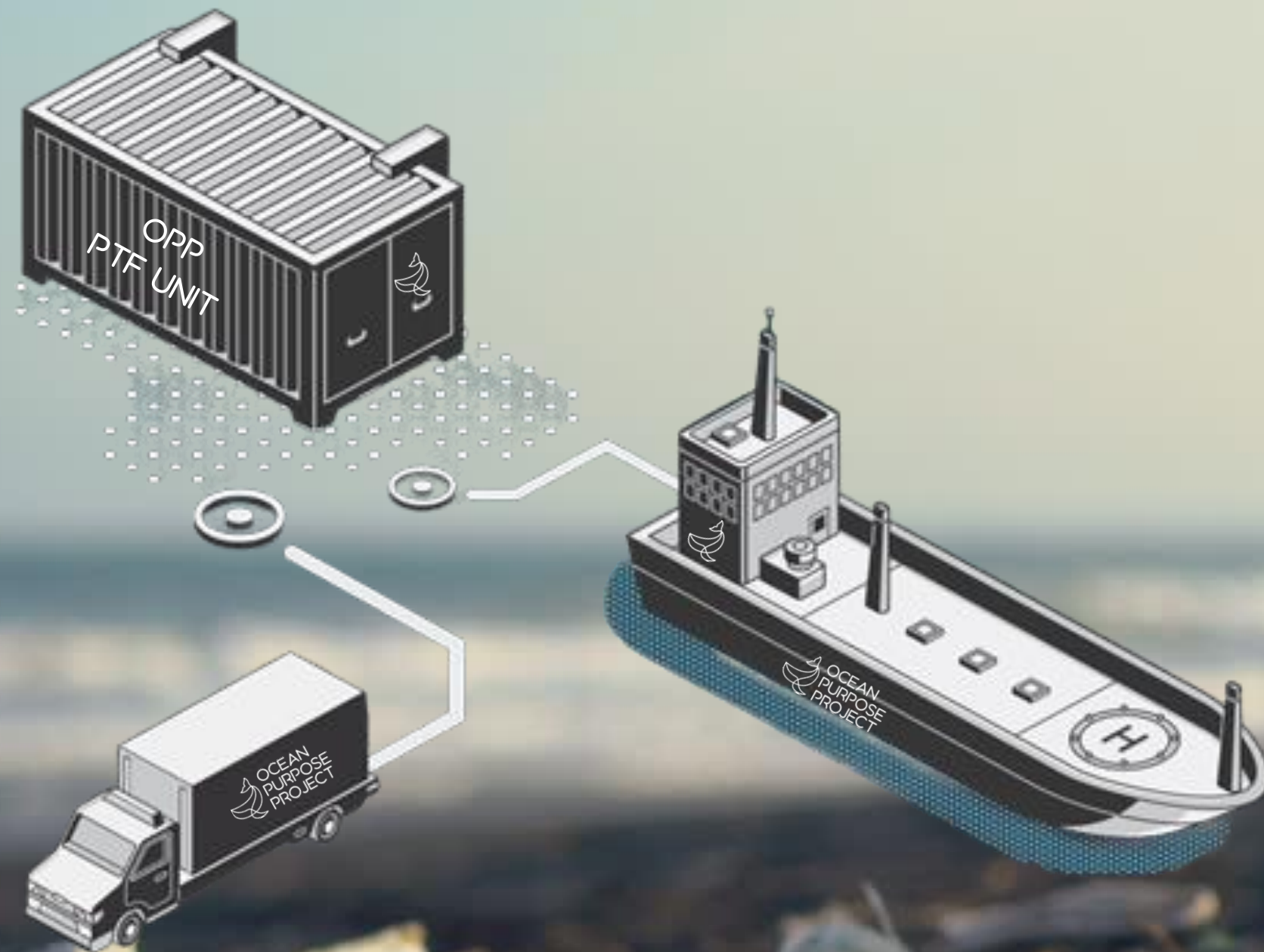


Archipelagic
& Island States
Forum



NCCCS
NATIONAL CLIMATE CHANGE SECRETARIAT

STRATEGY GROUP
PRIME MINISTER'S
OFFICE



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MATHILDA D'SILVA

Founder & CEO

E: mathilda@oceanpurposeproject.com

T: +65 81182520

www.oceanpurposeproject.com