

# Tow and installation of ocean cleaning system

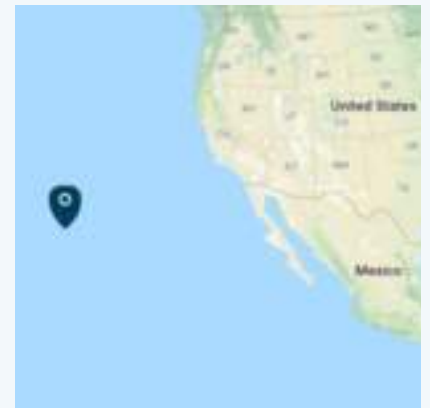
## Deliverables

- Tow and installation
- Project management
- Project engineering
- Procurement
- HSE advisory
- Marine operations

Maersk Supply Service project managed and executed the tow and installation of The Ocean Cleanup's System 001, and continues to utilise its marine experience to optimise offshore operations on location at the GPGP.

System 001 is a 600m-long floating array with screen designed to collect floating plastic debris for recycling. The project began with a two-week trial, before transport to the installation location at the Great Pacific Garbage Patch, 1,200 NM from San Francisco.

Being the first time such a system is launched, the project presents a number of challenges to be addressed during the planning, engineering, and finally, operational stages. For example, during the tow, Maersk Launcher could not exceed a speed of 3.5 knots due to the delicacy of the system compared to an average of 8 knots during traditional offshore energy-related towing operations.



## Key facts

### Client:

The Ocean Cleanup

### Project:

Tow, installation and monitoring of ocean cleaning system

### Location:

Great Pacific Garbage Patch

### No. of vessels used:

2

### Project timing:

2018 - 2019

### Operations:

- Project management
- Project engineering
- Procurement
- HSE advisory
- Marine operations

### Safety performance:

Zero Lost Time Incidents



### Plastic pollution on the rise

Global plastic production has risen steadily since 1950 at a compound annual growth rate of 8.4%. As a result, an estimated over five trillion pieces of plastic now litter all major ocean basins. System 001 is situated at the Great Pacific Garbage Patch, where it aims to recover some of the 80,000 tonnes of plastic debris located there.



### Committed to our oceans

The installation of the first offshore cleaning system has been carried out as a partnership between The Ocean Cleanup and Maersk Supply Service. As a responsible maritime operator, Maersk Supply Service is committed to ensuring that the oceans remain a healthy environment for generations to come.



### Backed by 50 years of marine experience

Large towing operations have been a key part of Maersk Supply Service's operations for the last 50 years. The tow and installation of System 001 is another example of how our vessels, marine experience and project management capabilities can be applied to support new industries.



## Project Management of:

### Towing operations

- Tow of System 001
- Monitoring
- Inspections and adjustment

### Safety management

- Project safety procedures
- Project safety planning
- HSE advisory
- Emergency preparedness procedures

### Offshore testing

- Environmental baselining:
- Near shore test
- Drift tests
- Deep water sampling for plastic
- Surface monitoring by drone
- Closing procedure test of system
- Mammal monitoring and baselining by means of passive acoustic monitoring bouys
- Autonaut tests (unmanned monitoring vessel)
- System behavior monitoring
- Sampling of collected plastic



Maersk Launcher commencing the tow



Maersk Transporter joining The Ocean Cleanup



Installing System 001 at the GPGP

### Maersk Supply Service - Provider of vessels and full service solutions to the energy sector

Maersk Supply Service is a leading provider of marine services and integrated solutions to the energy sector worldwide with a large fleet of anchor handling tug supply vessels and subsea support vessels. The company provides solutions to the oil and gas industry in areas such as towing and mooring installation, subsea construction, and light well intervention services, and supports other industries such as offshore wind, deep sea mineral recovery and ocean cleaning.

Maersk Supply Service employs an international staff of approximately 1100 offshore and 250 onshore people. Headquartered in Lyngby, Denmark, Maersk Supply Service is represented globally with offices in Aberdeen, Accra, Luanda, Manila, Mexico City, Perth, Rio de Janeiro, St. John's, and Singapore. Maersk Supply Service is a part of A.P. Møller – Mærsk A/S which employs roughly 70,000 employees across operations in 130 countries.

For more information visit [www.maersksupplyservice.com](http://www.maersksupplyservice.com)

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