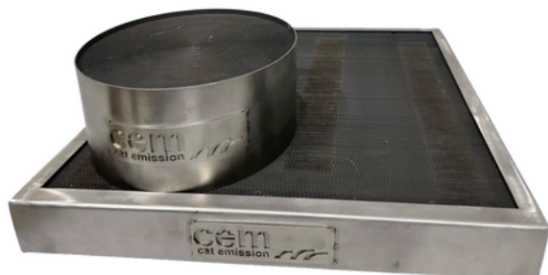


# Methane Slip Catalyst – MSC

Prepare for decarbonization



The CatEMission Methane Slip Catalyst System is an innovative solution designed to address methane slippage, a potent greenhouse gas, from gasoline / dual-fuel engines. Leveraging catalyst oxidation technology, this system is instrumental in significantly reducing methane emissions in marine and industrial applications.



## KEY BENEFITS

- 1. High Efficiency Methane Reduction:** Capable of reducing methane emission levels by up to 95%, ensuring a significant decrease in environmental impact.
- 2. Advanced Oxidation Technology:** incorporates platinum group metal (PGM) oxidation catalyst substrates to achieve a high rate of methane oxidation within operating temperatures of 350°C to 500°C.

## MARKET SEGMENTS

**MARINE:** Designed for application on large marine and cargo vessels, this system helps to comply with strict environmental regulations while sailing around the world.

**INDUSTRIAL:** Suitable for compact power generation and biogas treatment facilities, ensuring methane emissions are controlled even in the most demanding industrial environments.

## COMPLIANCE

The system is designed to meet and exceed legal regulations on methane emissions, providing an environmentally friendly solution for CH<sub>4</sub>-containing exhaust gases and eliminating NO<sub>x</sub> emissions.

## R+D PILOT SLIDE CATALYST ON A CRUISE SHIP

### Objective

- Evaluate the CH<sub>4</sub>/HC/CO reduction efficiency trend to confirm laboratory results.

### PROTOCOL

- Operation only during the burning of LNG fuel
- Continuous monitoring of CH<sub>4</sub>/HC/CO
- Significant data anticipated after 600 hours

### MONITORED PARAMETERS

- Total Uptime
- Reactor temperatures and pressure
- CH<sub>4</sub>/HC/CO concentration
- Exhaust gas flow

### TEST PARAMETERS

- Catalyst cell density 200-300-400 CPSI
- Various PGM formulations and wash
- Temperature 350° to 450°