During storing and loading of hydrocarbon products, volatile organic compounds (VOC) will be released. These VOC's are harmful to the environment; represent a considerable economic value, and assets which should not be wasted.

According to the Geneva Protocol, emission of VOC must be significantly reduced. To achieve this, the oil companies are required to install systems for collecting VOC from tank farms, terminals and ship loading installations.

The Hamworthy VOC recovery system for hydrocarbon gas is based on the principle of absorption and membrane separation which allows organic components in any vent gas to be returned to their place of origin, resulting in both increased product output and environmental benefits.

Hamworthy Technology and Products perform feasibility studies and process simulations to assist in the selection of the optimal solution for a given application. The company also offers engineering services for integration into existing process systems.

The Principle

Hamworthy supplies VOC recovery systems for a number of applications based on the principle of condensation and membrane separation.

The VOC recovery system is designed to collect and liquify up to 99% of hydrocarbons in a single stage and requires only electric power and cooling water. The system does not create new emissions or contaminated waste. The compact modular design, which is assembled and tested prior to shipment to customer, ensures short installation time.
Hamworthy Technology & Products is a Norwegian supplier of high technology products and systems to oil and gas installations worldwide, specialising on the separation of oil and water, gas recovery, gas conditioning and gas conversion.

Our main technology including the electrostatic coalescence (VIEC), zero continuous flaring on oil & gas production plants and zero emission technology for floating production units are all patented. Our products are designed to meet the requirements of environmental standards and legislation.