

ACR 814. Tradewater International – Thailand 1.0

Type of project: Destruction of Ozone Depleting Substances (ODS) from International Sources.

Carbon Standard: American Carbon Registry (ACR) Vintage: 2023

Project Description

In Thailand, ODS material was stockpiled by the Government, through the Customs Department, over many years, on and before in 2007. These stockpiles of virgin CFC-12 require an end-of-life solution, one of which is destruction. However, there is currently no law, rule or regulation requiring the destruction of ODS when it is in Customs' custody, and no financial or logistical infrastructure to ensure the material is destroyed safely and consistent with the requirements of the Montreal Protocol. As a result, the ODS material in Thailand is released into the atmosphere slowly because it simply remains in stockpiles with no future use.

This project achieves emission reductions through the destruction of ODS refrigerant, instead of holding it in containers at risk of eventual leakage or release. This Project measures the amount of assumed emissions if the ODS were vented under business-as-usual scenario against the emissions prevented by the destruction of the same material. Plainly, destruction yields significantly lower net emissions than the business-as-usual scenario.

Additionality and Permanence

The material for this project was seized by Customs Department on or before 2007, and therefore it cannot be used in the commercial sphere. The material is secured in a stockpile because there is no mandate for its destruction in Thailand, nor does the government possess the necessary financing to destroy the material. Without this project, the material would have eventually vented to the atmosphere.

ODS projects results un permanent destruction of greenhouse gases. The key components that establish the quantifiable impact of these project include documentation that establishes that the ODS materials were collected and moved through a traceable chain of custody to a qualified destruction facility and a Certificate of Destruction for the ODS material contained in the project.

Chain of Custody and Ownership Documentation

Chain of custody and ownership documentation is collected and maintained beginning at the point of origin through destruction. This flow diagram outlines the parties involved throughout the custody and material movement process. Material from the point of origin is aggregated into an ISO tank, a sample is taken and analyzed, and the material is moved to final destruction to a qualified destruction facility (Waste Management Siam, Samut Prakarn, Thailand). The Certificate of Destruction is provided by the qualified destruction facility (Waste Management Siam) certifying the dates, mass and species of materials contained in the ISO tank and destroyed.

Sustainable Development Goals (SDG)

- **SDG1- No Poverty:** The Project contributes to the local economic development in Thailand. Tradewater's aggregation approach to identifying and collecting ODS fosters and implies participation of various parties. Tradewater finances local partners to handle the ODS material that they have identified and collected, as well as partners who transport the ODS material within Thailand, creating job opportunities at the local level. -
- **SDG 12 – Responsible Consumption and Production:** The Project supports the collection and destruction of one of the most powerful greenhouse gases in the world; paving the way to the development and use of safer and more environmentally friendly alternatives.
- **SDG 13 – Climate Action:** The phase-out to date of most ODS has not only led to the regeneration of the ozone layer but also to significant reductions in greenhouse gas emissions (GHG), as most ODS are also powerful GHGs. Tradewater has the objective to prevent the release of ODS gases into the atmosphere. By identifying, collecting, managing, and destroying refrigerant gases in an appropriate manner, Tradewater aims to prevent ozone depletion, negative environmental impacts, and climate change.