



NEBRA Digestion Roundtable

# CMI Environment

Your partner for environmental excellence



Pierre MERTENS  
Business Development Manager North America



# Welcome to the CMI Group

## Agenda



- CMI Group: Short Introduction
- CMI Tailor-made solutions for Odor Control
- CMI Stripping solution : Recov'Ammonia





# CMI Group: Short introduction

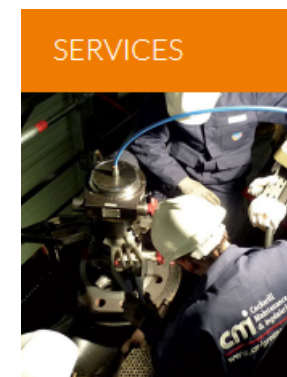
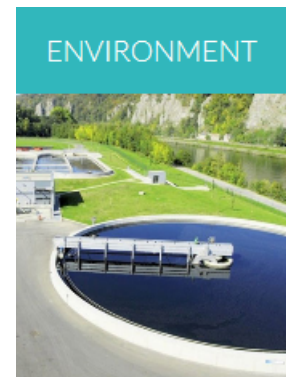
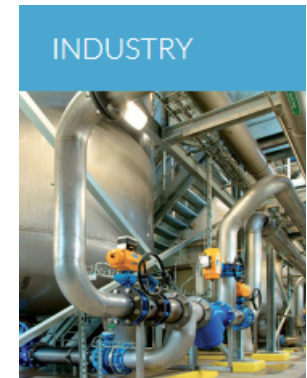
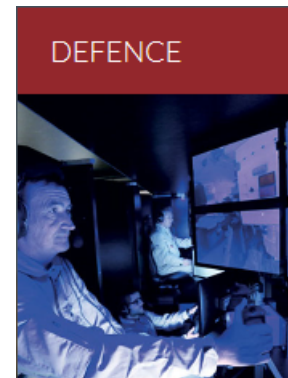
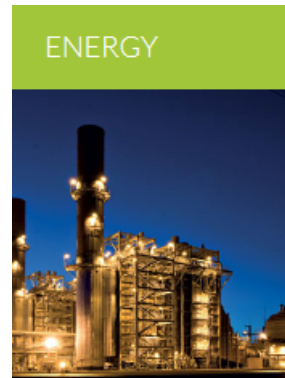


# CMI Group: Short Introduction

## A specialized Group



Waste treatment  
 Energie solaire **Défense** Air  
 Training **Energies** Chaudières Eau  
**Environnement** Lignes de galvanisation  
 HRSGs Boilers **Sidérurgie** Aeronautics Simulators  
 Solar energy **Maintenance** Operational efficiency  
 Stations d'épuration Services aux projets **Equipment**  
 Know-how Galvanizing lines **Energies** Laminoirs HRSGs  
 Spécialistes **Environment** Systèmes d'armes Durable  
**Métaux** Industrial furnaces Weapon systems Biomasse  
**Services to industries** Projects services Water  
 Savoir-faire Fours industriels **Equipement** Simulateurs  
 Efficacité opérationnelle **Metals** Biomass Rolling mills  
 Specialists **Services aux industries** Air  
 Formations Aéronautique **Defense**  
 Sustainable **Maintenance**  
**Steelmaking**





# CMI Tailor-made solutions for Odor Control



# Tailor-made solutions for air pollution control

## CMI Odor Control Strenght



- **>110 people dedicated to the odor, located in 3 entities**
  - **Including 6 people in Lisle with more than 40 years of history in industrial air treatment**
- **R&D (Laboratory, Dynamic olfactometer, pilot tests)**
- **> 1000 references Worldwide**
- **Using Eco friendly Thermoplastic material**
- **Sourcing from North America**
- **Specialized in 3 main technologies → BEST SOLUTION!!!**

# Tailor-made solutions for air pollution control

## Waste Management / SEMECS / Varennes (QC) - Canada



**1 line fitted with  
One acid scrubber  
One biofilter  
25,000 cfm**





# CMI Stripping solution: Recov'Ammonia



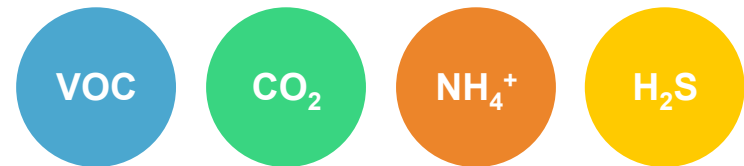


# CMI Stripping solution: Recov'Ammonia

## Stripping Principle



*Release targeted pollutants from the liquid towards the gas*



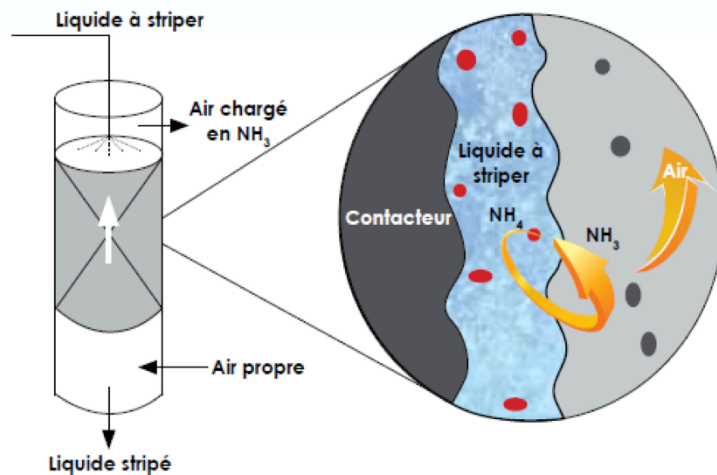
### Operating Parameters

Temperature regulation

pH regulation

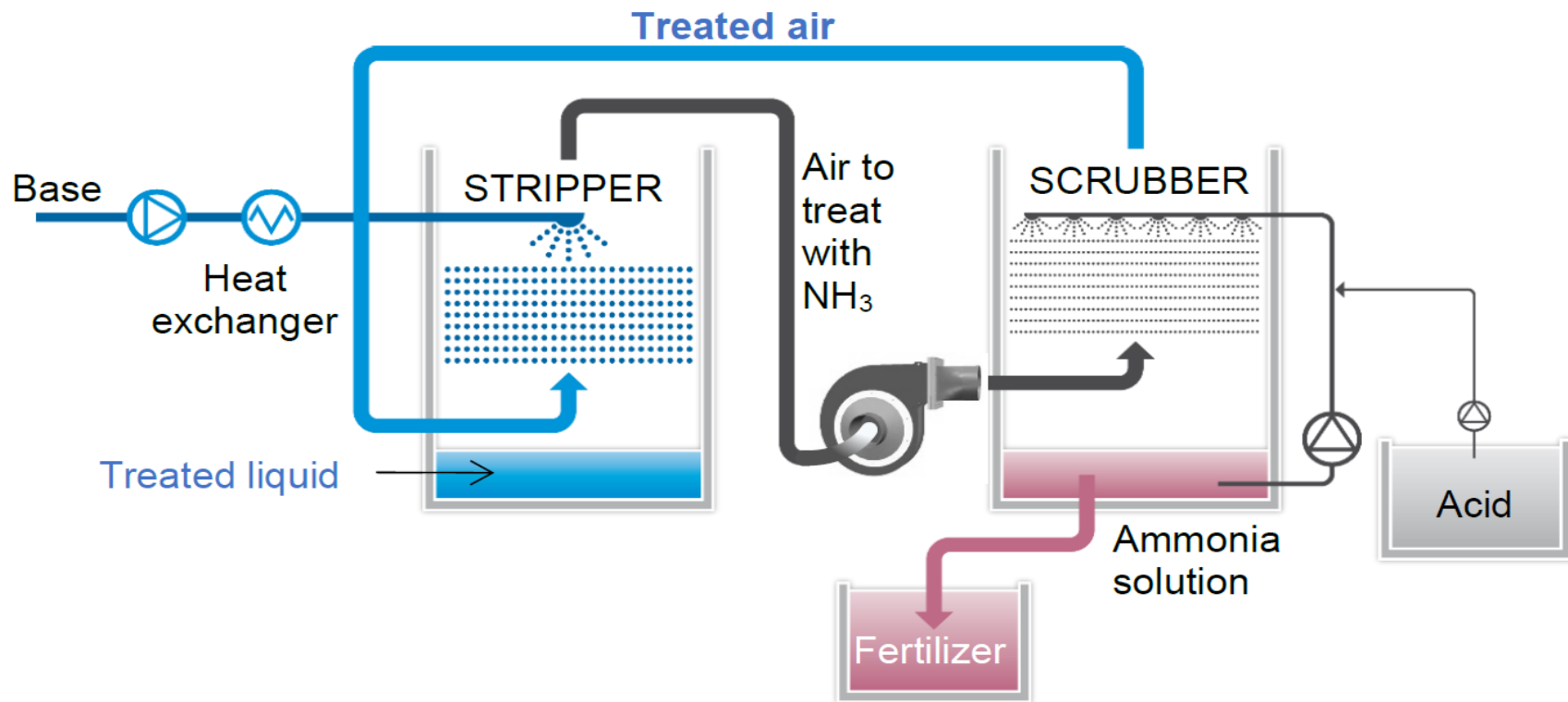
air/liquid ratio definition

Exchange model



# CMI Stripping solution: Recov'Ammonia

## Recov'Ammonia



# CMI Stripping solution: Recov'Ammonia

## Recov'Ammonia – Digestion plant – SEMECS - Canada



**Process :** Organic waste

**Liquid Flow :** 100 gpm

**[NH<sub>4</sub>+] :** 3.3 g/l

**Stripping parameters :**

- Confidential

**Efficiency :** 90% ➔ [NH<sub>4</sub>+] 200 mg/l



└ Montreal ┘



# Thank you

Pierre MERTENS

Business Development Manager North America

CMI Environment America (AMCEC)

E-mail: [pierre.mertens@cmigroupe.com](mailto:pierre.mertens@cmigroupe.com)

Mobile: +1 630 210 5322

[www.cmigroupe.com](http://www.cmigroupe.com)

