



Give Earth a chance

Curbing other climate pollutants, not just CO₂, gives Earth a chance. Control of short-lived climate pollutants, methane and ozone, offers 50 percent cut in rate of warming.

Slashing emissions of carbon dioxide by itself isn't enough to prevent catastrophic global warming, a new study shows. But if we simultaneously also reduce emissions of methane and other often overlooked climate pollutants, we could cut the rate of global warming in half by 2050 and give the world a fighting chance.

Analysis shows that climate pollutants such as methane, nitrous oxide, black carbon soot, low-level ozone and hydrofluorocarbons contribute almost as much to global warming as longer-lived CO₂

ScienceDaily. 24 May 2022

this issue

Ongoing growth **P.1**

Story about MRU **P.2**

Asset Tracking trends **P.3**

S&SE Ongoing Growth & International Reach

Despite persistent risks, virus variants, and supply chain challenges, the world continued its march from the global pandemic into economic recovery. Ship & Shore Environmental, Inc. (S&SE) finished off a very productive year executing plans to continuously assist its clientele, consisting of small and large scale companies, weather the COVID storm, while continuing to expand and contribute to meaningful community outreach initiatives.

Vertical Market Development

With a strong push to bring its innovative pollution abatement technologies to the maturing biogas market, S&SE has been doubling down for the past few years to bring its Regenerative Thermal Oxidizers (RTOs), Direct-Fired Thermal Oxidizers (DFTOs), Multi-Stage Combustion Thermal Oxidizers, Scrubbers, and Removal Vessels to this market through a combination of education, marketing, and municipal cooperation. Biogas is well known for its ability to convert organic waste into energy, but the process entails the creation of carbon dioxide, methane, and other environmentally deleterious compounds. Realized revenue increased in this space across multiple projects, and S&SE expects 2022 to deliver even higher results as demand for abatement solutions continues to mount in sync with growing environmental, social, and governance (ESG) compliance throughout the energy sector.



Tech Tip

What are Dioxins? And Why Should We Care?

Dioxins are a group of highly toxic chemical compounds that pose hazards to human health, and due to their chemical stability, they do not break down easily and can remain in the environment for many years. Dioxins can be found in food and water, which creates the possibility of these toxic chemicals being breathed in or consumed.

Biogas World launches new report - Cost reduction of AD of organic waste

Quebec City, June 16, 2022 – BiogasWorld has launched a new report, prepared for and funded by Environment and Climate Change Canada (ECCC), on the best practices for reducing costs of anaerobic digestion (AD) of organic waste and increasing the valorisation of biogas and digestate.

The data collected through the literature search, analysis of interviews and questionnaire responses of more than 90 biogas and RNG industry stakeholders allowed to list the current industry barriers, highlight the major Canadian particularities that influence CAPEX and OPEX, enumerate best practices that can reduce costs and discuss ways to valorize end products. Additionally, the study highlights opportunities for future research.

Based on the research results, BiogasWorld prepared the list of best practices to reduce the costs and improve the valorization of end products from AD systems. The best practices are categorized by the main actor involved in implementing the best practice to differentiate among three groups of industry stakeholders (e.g., facility, industry associations and other groups and government).

On project level, industry level and government level, best practices are described in the report.

Complete report can be requested from:

info@indusmation.com

Sub line: Biogas World AD systems cost reduction practices



The story about MRU Instruments, Inc.

Emission Monitoring Systems since 1984

MRU GmbH was founded on 01/06/1984 in Germany initially with just 2 employees and has since then grown into a nationally as well as internationally respected enterprise.

At its headquarters in Neckarsulm – Obereisesheim, Germany, MRU develops, manufactures and sells Emission Monitoring Systems such as a portable gas analyzer and stationary gas analyzers for use all around the world, employing approximately 100 people in the German head office.

The rapid development, which MRU underwent in the past 35+ years, could not be anticipated by anyone 35 years ago. "Environmental Protection" by far did not have the significance it has today. Very few had any idea of how important that aspect would become years later.

Business success solely was based on saving energy. Just a few turns with a screwdriver, meaning to reduce combustion air and thus improving combustion efficiency convinced the operating companies of large furnaces to such an extent that they would place orders even while the Analyzing Systems were still being demonstrated on site..

"MRU opens doors in USA"

MRU Instruments, Inc. was founded in the US in 2007 and is a 100% affiliate for MRU GmbH and is in Humble Texas, just north of Houston. Perfectly located between I-59 and IAH Houston Airport.

Here at the Humble location we stock our most common and high-volume analyzers, Humble is also our service center.

Here at the Humble location we stock our most common and high-volume analyzers, Humble is also our service center for the US. We are proud to have industry leading service times and prices – typically an analyzer is no longer that two days in our service department. Even morning drop offs, and afternoon pickups are possible. We want your analyzer downtime to be as short as possible, to ensure that YOUR business goes well.

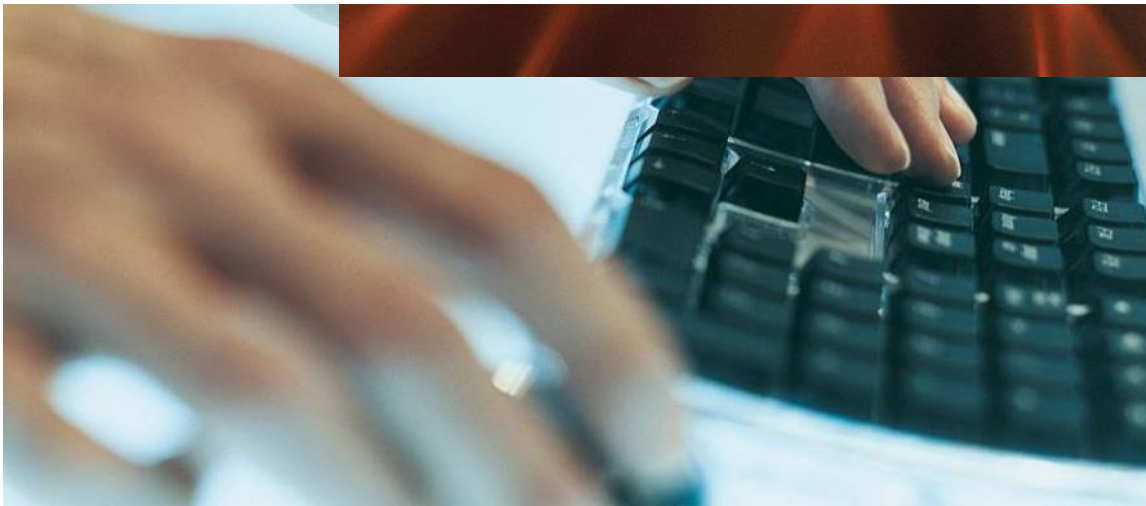
Our small and highly motivate team ensures quality from A to Z – we can help you finding the right product for your application, guide you all the way from initial contact to the point when you are ready to purchase a MRU product that will last for years. And we will keep supporting you for all your analyzer needs, when your analyzer is due for service or should you need some spare parts, we will be here for you!!



Tech Tip

Why use process analyzers?

For every \$1 spent on analyzer system we spend \$2 owning it and we get \$10 payback!



Technology Solutions for Asset Tracking

Complete End to End solutions

We help our customers to adopt Industry 4.0, IIoT 2.0 practices, achieve Digital Transformation and run their business safely, confidently, cut their operation costs and increase profits. Our solutions are hosted in the cloud and are completely scalable from small companies to large enterprises

Our Edge Gateway devices, Framework solutions, Barcode scanners, printers, Handheld devices with RFID readers and wireless sensors, form a complete suite for wide applications with our vast domain knowledge and experience in core Industries like Cement, Steel, Petrochem, Oil & Gas, Power, Textiles, Biotech, Pharma, Paper and Manufacturing.

Our expert services include application engineering, front end design, firmware development, electronics, PLC / SCADA programming, complete process control automation

Tech Tip

When was RFID first used ?

Mario W. Cardullo claims to have received the first U.S. patent for an active RFID tag with rewritable memory on January 23, 1973. That same year, Charles Walton, a California entrepreneur, received a patent for a passive transponder used to unlock a door without a key.

This Month's Highlights

- Expanded Polystyrene (EPS) Manufacturers Incorporate Ship & Shore Environmental's Innovative Solutions to Meet Clean Air Regulations
- MRU Instruments at Powergen 2022 KAY BAILEY HUTCHISON CONVENTION CENTER Dallas TX
- MRU Instruments at RNG WORKS – the North American RNG industry's annual two-day Technical Workshop & Trade Expo, returns September 20-22, 2022 to Music City Center in Nashville,

- Indusmation LLC has successfully completed a multi stack sample sequencer and CEMS system for a scrap steel processing facility in Saudi Arabia
- Indusmation LLC has jointly closed a contract for a Cot Spin facility in India to track their Yarn spindles with RFID, Barcode and Inventory systems



EYE ON ASSET TRACKING

Current Industry Trends

RFID based solutions represent one of the most cost-effective methods that may be used with a variety of assets, use cases, and form factors. For example, RFID-enabled "slap-and-track" enables fast and easy tracking for many use cases ranging from shipping to asset loss prevention. However, RFID based solutions rely upon RFID tag communication with an RFID reader within signal range.

Research & Marketing 2021-2026 predicts

While fleet comprises over 80% of the market, non-fleet asset tracking is growing 18% faster

Asset tracking solutions are becoming increasingly more attractive for sub-\$1,000 book value assets

The asset management and logistics market will witness considerable vendor consolidation through 2026

Leading companies will integrate asset management, logistics, and connected-device security as combined solutions



Professional Development

Submit your interesting case studies, articles and win our best tech tip prizes.

info@indusmation.com

[JOIN OUR PARTNERSHIP PROGRAM](#)

Upcoming Events

- **RNG WORKS - the North American RNG industry's annual Technical Workshop & Trade Expo.**

RNG WORKS - the North American RNG industry's annual two-day Technical Workshop & Trade Expo, returns September 20-22, 2022 to the Music City Center in Nashville, TN.

- **WEFTEC 2022 95th Annual Technical Exhibition & Conference**

New Orleans, Louisiana | The Ernest N. Morial Convention Center Conference: October 8-12, 2022 Exhibition: October 10-12, 2022

- **2022 National Ambient Air Monitoring Conference**

The 2022 National Ambient Air Monitoring Conference, sponsored by EPA in conjunction with the Association of Air Pollution Control Agencies (AAPCA) and the National Association of Clean Air Agencies (NACAA) Pittsburgh PA August 22-25 2022

- **RFID JOURNAL LIVE! 2023**

MAY 9 – 11, 2023 ORLANDO, FLORIDA Discover RFID and IoT Technology Solutions With The World's Largest Gathering of Qualified RFID Buyers and End Users

Tech Times Issue 07 July 2022



Indusmation LLC
3837 Pine Valley Dr
Plano TX 75025
631.901.8857 ph
info@indusmation.com
www.indusmation.com