

# CAPABILITY STATEMENT



# TERRAVENT

ENVIRONMENTAL

## Electromagnetic (EM) Thermal Solutions

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**CAGE Code: 9SXF0**  
**UEI: F4E9ACQ377J5**  
**SBA Small Business**

## CORE COMPETENCIES

TerraVent Environmental, Inc. is a Florida based energy technology company.

Heatwave® ElectroMagnetic (EM) Industrial microwave heating systems are electrically sourced and can be fully powered with renewable energy and emit no Green House Gasses (GHG).

Industrial Heating Systems adapted to many heavy industries, including:

- Mining Process & Minerals Extraction
- Hydrogen Generation & Pyrolysis
- Waste to Energy System (pictured right)

Our IP portfolio and comprehensive staff expertise in:

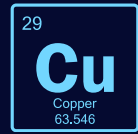
- ElectroMagnetic (EM) Engineering
- Microwave & Radio Frequency Tech
- Process Engineering
- Computer Modeling & Simulations



Industrial Heating



Clean Hydrogen



Critical Minerals



Waste to Energy System



## TERRAVENT PLASTIC WASTE TO ENERGY SYSTEM

- TerraVent's Waste to Energy System recycles mixed plastic waste, tires, and used oils into synthetic fuel that can be blended into diesel and aviation fuels.
- Modular design with a footprint of a standard CONEX box for easy deployment, cost-effective mobilization and demobilization, as well as modular scalability.
- Mixed waste streams are converted quickly and cleanly into bendable synthetic fuels and solid carbon feedstocks.
- Process can be deployed, operated, and relocated in variable locations, including Military installations & aboard Naval vessels. YOUR BURN PIT SOLUTION!



## Industrial Heating

Bespoke heating solutions via Electromagnetic (EM) for industrial applications



## Hydrogen

Our Hydrogen process can produce Hydrogen for as low as \$0.86 per kilogram



## Oil and Gas

Our patented ESEIEH® process can produce heavy oil far more efficiently than current methods

# DIFFERENTIATORS

**TerraVent Environmental is a spin-out from L3Harris, a \$19.4B global Aerospace and Defense Company, with unparalleled expertise in the application of ElectroMagnetic (EM) Heating to Industrial systems, Mining Process, and Hydrogen Generation.**

**L3Harris, minority non-voting, non-affiliated partner, allows TerraVent access to highly capable, experienced personnel, facilities, networks, and resources.**

- **Experience & Experts:** Technical experts in multiple specialties allow us to innovate practical and effective solutions for a wide variety of industrial systems.
- **Environmental Sciences:** Executive team with 40 years of experience with deploying and utilizing Environmental Technology
- **Military Experience:** CTO, Retired Construction Battalions XO, first-hand experience with Major Projects in operations zones

# PAST PERFORMANCE

**1. Working with Intl' Copper Major providing improvements to copper mining process.**

**2. Department of Energy and Texas Tech Hydrogen "Earthshots" Initiative for in-situ production of vlean Hydrogen as low as \$0.86 per kilogram.**

^Clickable Link^

**3. Effective Solvent Extraction Incorporating ElectroMagnetic Heating® (ESEIEH®).**

^Clickable Link^

**\$108,000,000 project with L3Harris, CNOOC Limited/Nexen Inc., Devon Canada and Suncor Energy Inc. make up the ESEIEH® (pronounced "Easy") Consortium.**

**In field tests showed the following results:**

- **Reducing electricity consumption by up to 85%**
- **Completely eliminating the need of fresh water**
- **Eliminating GHG by up to 100% when using a renewable system**
- **TerraVent proprietary CEMRS™ program became only field validated simulation tool**

# NAICS Codes

541330	Engineering Services	213114	Support Activities for Metals Mining
541420	Industrial Design Services	562920	Recyclable Materials Recovery Facilities
541690	Other Scientific and Technical Consulting Services	495399	Recycling Waste Materials
541990	All Professional, Scientific, and Technical Services	333248	Recycling Machinery Manufacturing
213112	Support Activities of Oil & Gas Operations	324199	All Other Petroleum Products Manufacturing



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