

MICHIGAN'S METHANE ECONOMY

HEADQUARTER LOCATIONS:

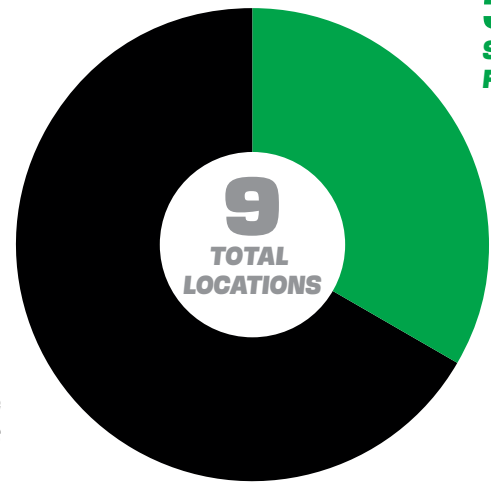
1
MANUFACTURING
FIRM



3
SERVICE
FIRMS

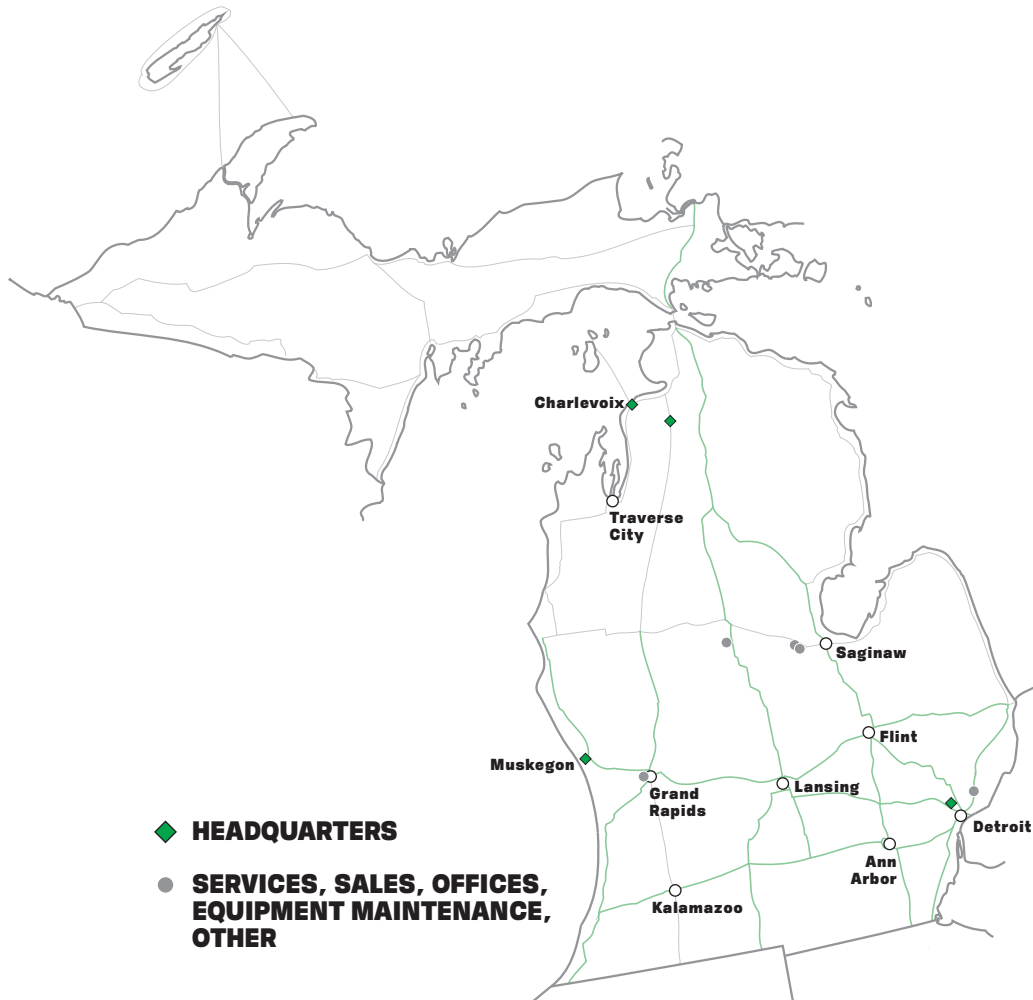
EMPLOYEE LOCATIONS:

3
SERVICE
FIRMS



6
MANUFACTURING
FIRMS

NOTE: FIRMS THAT PERFORM BOTH SERVICES AND MANUFACTURING ARE LISTED IN MANUFACTURING.



SERVICE FIRMS IN METHANE EMISSION MITIGATION INDUSTRY IN MICHIGAN

| Firm | Industry Category | Technology | Employees | Sales (\$million) | Location Type | City |
|----------------------------|-------------------|----------------|-----------|-------------------|---------------|------------------------|
| Otech Aerial Drone Service | DMR | LDAR, OGI, UAV | 0-50 | \$0-\$15 | HQ | Orion Charter Township |
| Stranded Solutions | M | FM, GC | 0-50 | \$0-\$15 | HQ | Charlevoix |
| Westshore Consulting | DMR | LDAR, OGI, CR | 0-50 | \$0-\$15 | HQ | Muskegon |

HQ City is in **bold**.

MANUFACTURING FIRMS IN METHANE EMISSION MITIGATION INDUSTRY IN MICHIGAN

| Firm | Industry Category | Technology | Employees | Sales (\$million) | Location Type | City |
|--------------------------|-------------------|---|--------------|-------------------|---------------|--------------|
| GasTechno Energy & Fuels | M | FM, GC | 1-500 | 1-\$38.5 | HQ | Boyer Falls |
| Baker Hughes* | DMR, M, ADA | LDAR, OGI, CR, FS, MGL, UAV, RPS, V, APD, REC, PLVT, FM, GC | 10,001+ | \$10,000+ | Other | Mt Pleasant |
| Bauer Compressors | M | RPS, VRU, GC | 1-500 | \$38.6-\$500 | Other | Macomb |
| EagleBurgmann | M | RPS | 1-500 | \$1,001-\$10,000 | Other | Midland |
| John Crane | M | RPS | 5,001-10,000 | \$1,001-\$10,000 | Other | Midland |
| PSG Blackmer | M | VRU | 1,001-5,000 | \$38.6-\$500 | Other | Grand Rapids |

HQ City is in **bold**. *Performs services and manufacturing.

INDUSTRY CATEGORIES: **DMR:** Leak detection, measurement, and repair | **ADA:** Advanced data analytics | **M:** Mitigation technologies | **SA:** Strategic advisory

TECHNOLOGIES: **LDAR:** Leak Detection & Repair | **MGL:** Mobile Ground Labs | **RPS:** Rod Packing & Dry Seals | **PLVT:** Plunger Lifts/Velocity Tubing | **OGI:** Optical Gas Imaging

UAV: Unmanned Aerial Vehicles | **V:** Low-emission Valves | **VRU:** Vapor Recovery Units | **CR:** Non-OGI Close Range | **A:** Aircraft | **APD:** Alternatives to Pneumatics | **FM:** Flare Mitigation

FS: Fixed Sensors | **S:** Satellites | **REC:** Reduced Emission Completions | **GC:** Gas Capture For Use Or Distribution

FOR MORE INFORMATION, SEE THE DATU RESEARCH REPORT: FIND, MEASURE, FIX: JOBS IN THE U.S. METHANE EMISSIONS MITIGATION INDUSTRY

**FIND
MEASURE
FIX**

JOBS IN THE U.S. METHANE EMISSIONS MITIGATION INDUSTRY

A REPORT BY DATU RESEARCH 2021

FIGURE 2. TOP 10 STATES IN OIL-PRODUCING SECTORS AND METHANE EMISSIONS MITIGATION, 2021

Unsurprisingly, the heaviest concentrations of mitigation activities are found in oil and gas-producing states (see Figure 10). Of the top states, 12 percent are in the top three states of Texas, California, Colorado, Oklahoma, and Pennsylvania. The state that has the most mitigation activities is California, which has grown 177 percent more mitigation activities since 2014.

ANTICIPATED GROWTH

The industry is expected to grow significantly in the next five years, with a projected 100 percent increase in the number of jobs in the industry by 2025. This growth is driven by the need for more mitigation technologies and services, particularly in the oil and gas sector.

CHARACTERISTICS OF THE U.S. METHANE EMISSIONS MITIGATION INDUSTRY

The industry is characterized by a high concentration of jobs in the oil and gas sector, with a significant portion of the workforce employed in leak detection and repair (LDAR) and vapor recovery units (VRU). The industry is also characterized by a high concentration of jobs in the manufacturing sector, particularly in the production of mitigation technologies and services.

CONSUMPTION OF OIL-SHOWN SIGNAL

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