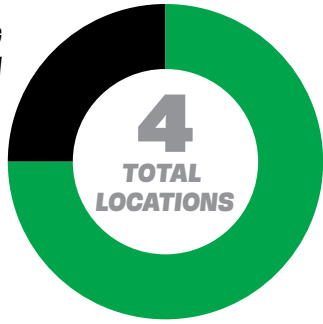


MICHIGAN'S METHANE ECONOMY

HEADQUARTER LOCATIONS:

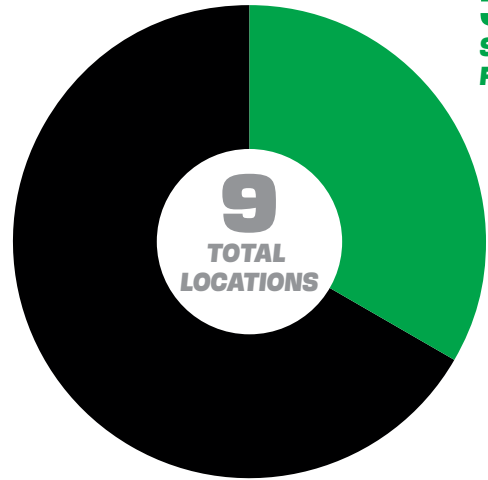
1
MANUFACTURING
FIRM



3
SERVICE
FIRMS

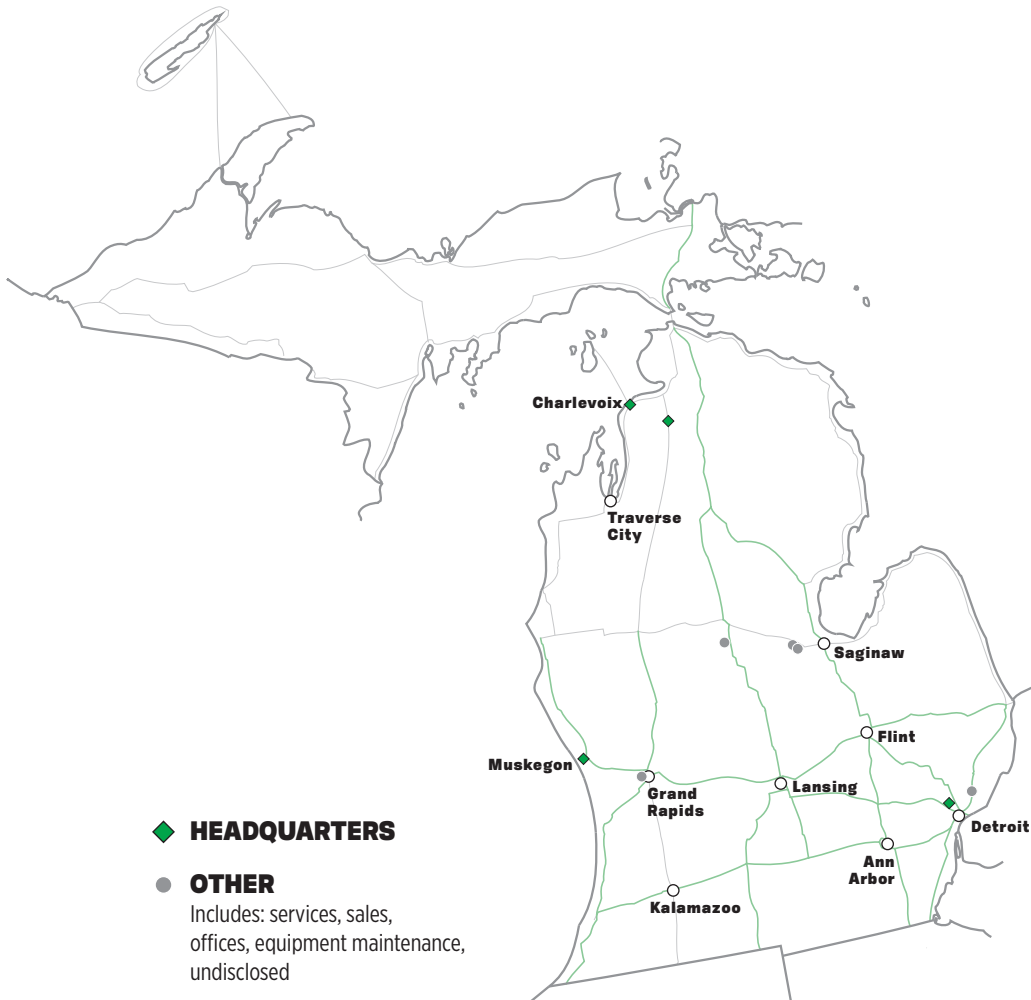
EMPLOYEE LOCATIONS:

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

ANTICIPATED GROWTH

FIGURE 9. TOP 10 STATES IN U.S. EMPLOYING GROWING, METHANE EMISSIONS MANAGEMENT, 2019

Unsurprisingly, the broader concentration of employment locations are located in oil and gas-producing states (see Figure 9). Of the top 10 states identified nationwide, 107 of those states, or 53 percent, are in the top states of Texas, California, Colorado, Oklahoma, and Pennsylvania. One state that has an especially high growth in methane-related employment locations in California has grown 177 percent since 2010 (see [www.courtesy.competeconomy.com/callifornia](#)).

ANTICIPATED GROWTH

By 2025, we expect an additional 100,000 jobs in the methane emissions mitigation industry. This is based on our forecast of 17 percent annual growth in the industry (see Figure 11). While we expect methane emissions to grow, we expect methane emissions to grow more slowly than the industry (see Figure 11).

CHARACTERISTICS OF THE U.S. METHANE EMISSIONS MITIGATION INDUSTRY

COUNTY OF FIRMS

The top 10 counties in the U.S. with the most methane emissions mitigation firms are in the oil and gas-producing states. The top 10 counties are in Texas, Oklahoma, Colorado, and Pennsylvania. The top 10 counties are in Texas, Oklahoma, Colorado, and Pennsylvania. The top 10 counties are in Texas, Oklahoma, Colorado, and Pennsylvania.

FIGURE 10. NUMBER OF FIRMS PROVIDING LEAK DETECTION & MEASUREMENT, BY TECHNOLOGY

There are 108 methane emissions mitigation firms providing leak detection and measurement services. The top 10 technologies are LDAR, OGI, CR, FS, MGL, UAV, RPS, V, APD, REC, PLVT, FM, GC.

CONSUMPTION OF GAS-SHOWN LEVEL

Oil and gas companies that are focusing on E&C may work with traditional environmental consulting firms to see methane emissions growth, such as those in carbon or crop production. Higher methane emissions from an oil and gas company may be an immediate benefit of operations. For other oil and gas companies, methane is a byproduct and to improve their gas production.