

Oil & Gas Extraction Workers

NIOSH Motor Vehicle Safety Impact Story

Many oil and gas extraction (OGE) workers drive long distances from their homes, lodging sites, and equipment yards to reach well sites that are often in remote areas.



Motor vehicle crashes cause over 50% of work-related deaths in the oil and gas extraction industry.¹

Key Actions:



Analyze existing datasets to better understand factors involved in fatal motor vehicle crashes in the OGE industry.



Raise awareness of best practices for the OGE industry, including journey management, in-vehicle monitoring systems (IVMS), and fatigue risk management.



Coordinate a [working group](#) for developing products and discuss solutions to OGE motor vehicle safety issues.

Key Findings:

- The motor vehicle fatality rate for the OGE industry is higher than all other industry sectors except for transportation and warehousing.
- Slightly more than half of fatalities were occupants of light-duty pickup trucks. Common factors noted in crash reports included speeding, weather conditions, and driver fatigue.
- IVMS are being used by large OGE companies in the United States and globally to reduce motor vehicle crash risk. This technology helps reduce risky driving behaviors through in-vehicle feedback and coaching by supervisors.

Key Outputs:



- *Morbidity and Mortality Weekly Report* [article](#): Occupational fatalities during the oil and gas boom
- *Society of Petroleum Engineers* [article](#): Journey management



Fatigued driving fact sheets for OGE:

- [Employers](#)
- [Workers](#)



Delivered over 40 presentations on motor vehicle safety to industry leaders at regional, national, and international events.

Key Impacts:

- International Association of Oil and Gas Producers (IOGP) issued a new *Land Transportation Safety Recommended Practice: Implementing an In-Vehicle Monitoring Program — a Guide for the Oil and Gas Extraction Industry*. Developed by IOGP committee members, other industry stakeholders, and NIOSH, this collaborative product is internationally-used and recognized.
- Using best practices identified by NIOSH, Texas Mutual and the Texas Oil and Gas Association Oil and Gas Safety Roundtable developed an 8-module worker training program focused on motor vehicle safety.
- The Occupational Safety and Health Administration (OSHA) Oil and Gas Well Drilling and Servicing eTool contains a [transportation module](#) that incorporates best practices identified by NIOSH research. The eTool also uses case examples identified through the NIOSH Fatalities in Oil and Gas Extraction (FOG) [database](#).
- NIOSH research was recognized by Energy Safety Canada (Canada's safety association for upstream oil and gas safety) in its first guide on developing a journey management program.