NETL-SUPPORTED PROJECT DEVELOPS FIRST-OF-ITS-KIND GAS SENSOR FOR EARLY WARNING DETECTION

Field-deployable technology can accurately sense, identify and quantify natural gas as an early warning system for leakage.





Fully integrated IoT-sensor prototype

Leaks can develop in the infrastructure needed to produce, gather, store, transport and distribute natural gas, emitting methane — a greenhouse gas that is a primary component of natural gas.

 University of New Mexico and SensorComm Technologies Inc., with support from NETL, developed an advanced sensor with an

RESEARCH PRIORITY



Internet of Things (IoT) network for natural gas emissions detection.

- Field testing shows methane concentration can be predicted over a range of 10-3,000 parts per million.
- In addition to environmental concerns caused by leaking methane, product loss costs billions of dollars per year.
- Sensors such as these not only help to mitigate climate impacts but also can contribute to lower fuel costs for consumers because less product is lost.



PERFORMERS



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