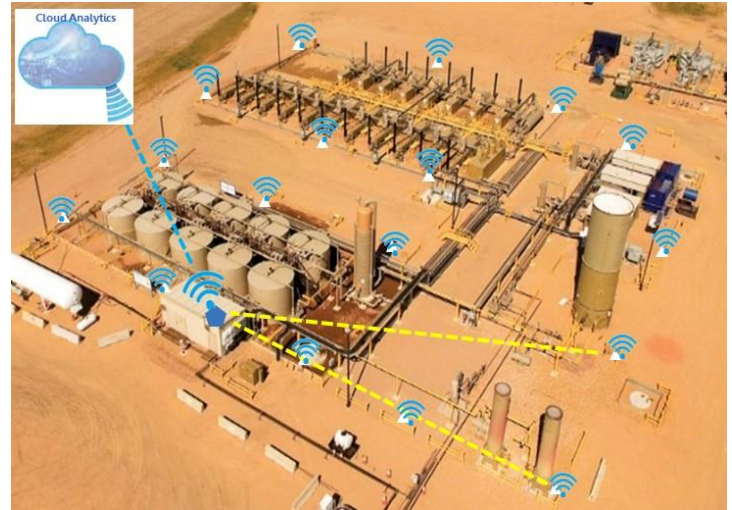# MethaneTrack™

Continuous, Cost effective, Fully Automated Methane Emissions Monitoring

NevadaNano's MethaneTrack™ is a low cost network of rugged monitoring points to measure methane emissions and report leak location and size to the operator. Utilizing an Industrial IoT (IIoT) network to detect methane in the air, MethaneTrack™ detects fugitive and operational emissions from a site and immediately alerts the operator of the location and volume of the emissions, facilitating rapid response and repair. Autonomous, continuous monitoring enables up to 99% reduction in emissions while reducing operational costs and boosting profits.

Modular MethaneTrack™ components enable custom site configuration

MethaneTrack™ Features & Benefits

Low Total Cost of Ownership

- Low-cost hardware and rapid setup - same day operation
- 5+ year maintenance free operation (replace batteries every 5 years)
- 15+ year sensor life: no calibration required!
- Automated 24/7/365 operation --- no manual monitoring required
- Increases revenue and profits in some applications

Identifies the source and quantifies the emissions

- Provides automated alerts
- Prioritizes largest leaks for maximum emissions reduction
- Discriminates between operational and fugitive emissions to reduce LDAR costs

Integrates with asset management software

- Improves operational efficiency
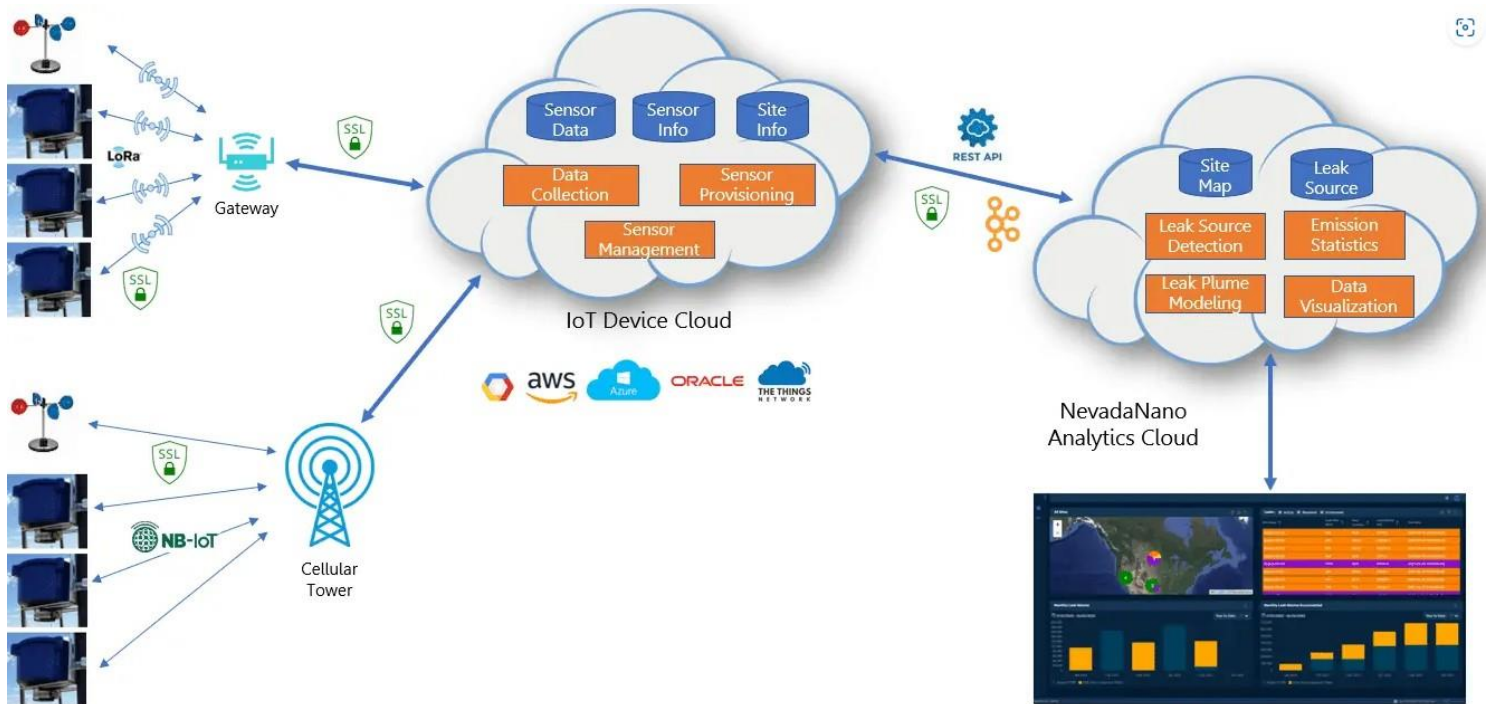- Enables predictive analytics and optimization of preventive maintenance programs

Automated reporting of leak reduction statistics

- Secure cloud based operation: private cloud or secure public cloud
- Monitor enterprise wide ESG performance real-time from any computer
- Intuitive user interface - displays all current events

Meets or exceeds tough oil field standards

- Global approvals: ATEX, UKEX, UL (Pending)
- Accurate from -40° to +75° C, 0 to 100 RH
- IP 67 Rating
- Inherently immune to poisoning

MethaneTrack™ System Overview

MethaneTrack™ System Description

Industrial IoT sensor array
- Battery powered for rapid installation
- Class 1, Div 1, and Zone 0 for flexible installation
- Encrypted LoRa data transmission
- Strategically placed sensors to optimize performance

Gateway provides data transmission to cloud via:
- WIFI
- Ethernet
- Cellular
- Satellite

Anemometer for accurate leak size and location

Secure Cloud for Data analysis
- Compatible with all clouds, including private
- Calculation of leak locations and emission rates
- Identification of operational venting vs. leaks

User interface
- Identification and prioritization of all leaks
- Text alerts for rapid situational awareness
- Tracking of all current emissions
- Comparison of emission performance vs. goals

About NevadaNano:

NevadaNano provides advanced multi-gas sensing products and continuous IOT monitoring solutions that enable companies to detect harmful gases and quantify and reduce their greenhouse gas emissions.