

Unlock New Potential with EnergyWise: Enhancing Gas Detection with Cutting-Edge Technology

# FidesInnova

Fidesinnova is pioneering verifiable computing solutions that merge zero-knowledge proofs (ZKP) with blockchain technology. Our goal is to establish a new standard for trust and transparency in computing and IoT systems, ensuring the integrity and correctness of data and program execution. The patented Fidesinnova solution, zk-IoT, can be applied across a wide range of sectors, including smart home, oil and gas, transportation, and healthcare. One of the solutions powered by FidesInnova is EnergyWise.



## About energywise

At EnergyWise, we specialize in integrating advanced technologies such as blockchain, zk-IoT, and zero-knowledge proofs to create innovative solutions for oil and gas industry. Our mission is to empower businesses with secure, efficient, and scalable tools that drive growth and improve operational efficiency.



## The Challenges Facing Gas Detection Today

- 1 ▶ **Data Security and Integrity:** In today's digital landscape, ensuring the security and integrity of gas detection data is more critical than ever. Traditional methods can be vulnerable to tampering, data breaches, and inaccuracies, potentially compromising safety and compliance.
- 2 ▶ **Operational Efficiency:** Manual monitoring and intervention can be costly and prone to human error. Ensuring real-time responsiveness and accurate compliance with safety regulations is a challenge that many companies face.
- 3 ▶ **Market Saturation and Competition:** As the gas detection market becomes increasingly competitive, standing out with innovative, secure, and value-added products is essential for maintaining market share and profitability.



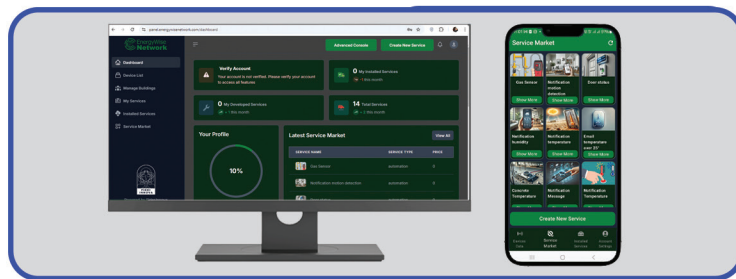
### References:

[www.datoms.io](http://www.datoms.io)

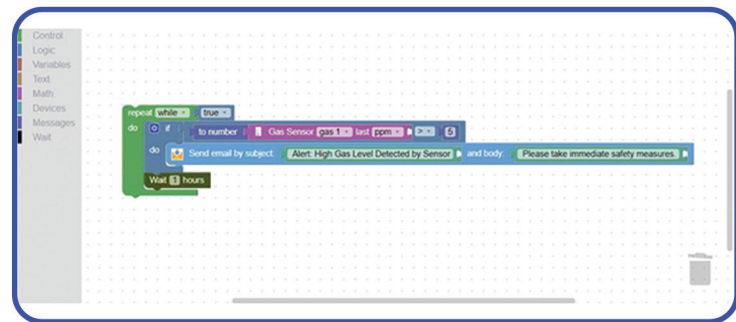
[www.securityinformed.com](http://www.securityinformed.com)

## EnergyWise Solution

- 1 ▶ **Cryptographic and Data Firmware Execution and Verification:** We make your gas detection data verifiable through cryptography such as blockchain and zero knowledge proof (zkIoT) by adding an extra layer of security. This allows stakeholders to confidently verify the authenticity and integrity of the data.
- 2 ▶ **Real-Time Monitoring with MloTN:** EnergyWise's Mesh IoT Network (MloTN) enables seamless communication between Crowcon's gas detectors. It allows for real-time monitoring and faster response times in case of hazardous conditions.
- 3 ▶ **Service Contracts for Automation:** Utilize EnergyWise's Blockly programming platform to design and deploy unlimited service contracts tailored to Crowcon's needs. These contracts can automate safety protocols, compliance checks, and operational processes to reduce the need for manual intervention and improving efficiency.
- 4 ▶ **Data Monetization Opportunities:** Partnering with EnergyWise opens new revenue streams by monetizing anonymized and cryptographically verified gas detection data. This data can be valuable to research institutions, government agencies, and companies interested in environmental data.
- 5 ▶ **Blockchain-Enabled Data Security:** EnergyWise can integrate blockchain technology into Crowcon's systems, to ensure that gas detection data is securely logged, immutable, and tamper-proof. This enhances trust and compliance with safety regulations.
- 6 ▶ **Mobile and Web Apps:** Sensor data is accessible via Web, iPhone, and Android apps, allow users to quickly access real-time data.
- 7 ▶ **Data History:** The system stores historical data enable users to track trends in collected signals and utilize this information for further analysis.



EnergyWise Mobile App and Web App.



Blockly platform. Smart contract for gas sensor.

## Global Market Size

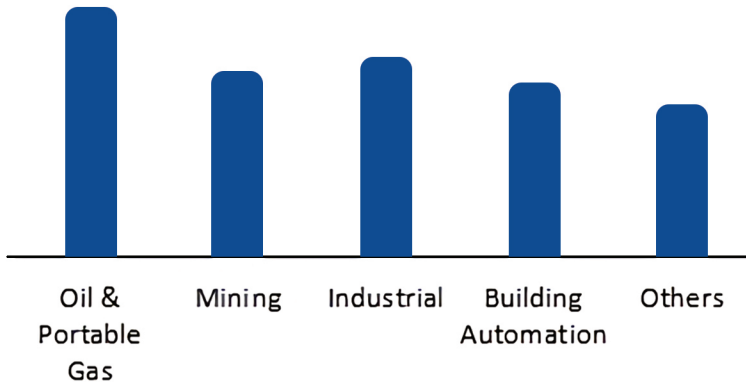


North America Market Accounted largest share in the portable Gas Detection Equipment Market



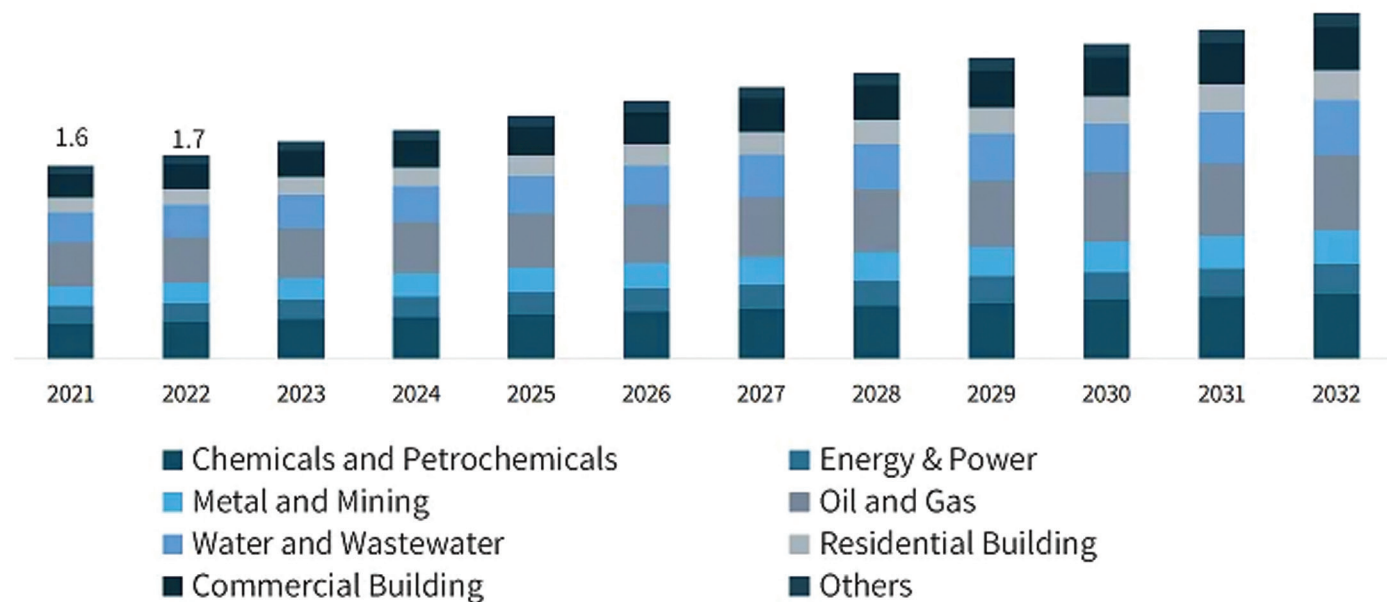
**5.30% CAGR**

Global Market to grow at a CAGR of 5.30% during 2024-2030

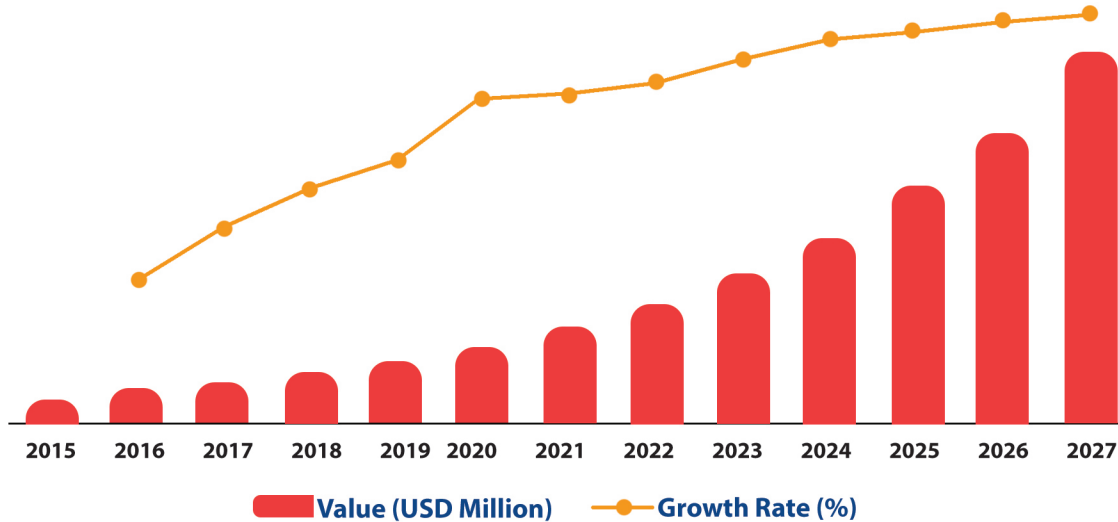


2023	2030
USD 4.69	USD 6.61
Market Size in Billion	

## Gas Detector Market, By End-use Industry, 2021-2023, (USD Billion)



## IoT security Market



Without strong security measures, any connected IoT device is vulnerable to hacking, exploitation, and manipulation by malicious actors, potentially leading to data theft and system disruptions.

## Join Forces With EnergyWise

Unlock the full potential of your gas detection systems with EnergyWise.  
Together, we can create a safer, more efficient, and more profitable future for your business.  
Call us today and request a demo



Powered By FidesInnova  
Cutting-edge Technology



EnergyWise: Driving Innovation, Enhancing Safety.



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