



# Modernized Industrial Hygiene for Proactive Health & Safety

## Energy Industry Case Study

### Safety & Efficiency for Essential Energy Operations

Industrial hygiene (IH) operations at large energy companies span multiple job sites and thousands of workers. Current practices require the use of specialized personnel and expensive sampling instruments to determine whether employees are being exposed to occupational hazards that affect daily safety and long-term health, such as excessive noise and heat, volatile chemicals, high levels of exertion, low air quality, and vibration. While many companies desire a continuous snapshot of employee health & safety amid dynamic and potentially dangerous operations, nearly all lack the technology to do so. There is a broad desire to unlock human potential and digital transformation efforts while ensuring safe and efficient operations.

An innovative IH leadership team heard about the VigiLife SafeGuard® platform through a respected IH consulting firm. Despite the challenges imposed by the energy sector's daily operations (heat, chemicals, and noise), SafeGuard was deployed with safe gas detectors and noise dosimeters to protect field personnel through proactive health & safety monitoring. When paired with operational context, these sensors uncovered insights regarding perceived vs. actual dose that can only be achieved with persistent monitoring. With SafeGuard, these IH leaders maintain greater awareness of the daily stressors faced by workers, without needing a daily on-site presence.

## F500 Energy Company

### Industries

- Energy
- Oil & Gas

### Lives Protected and Enriched

- 20x Field Employees
- 2x Guardians

### Challenges and Opportunities

- Manual oversight and sampling is expensive and reactive
- Intrinsically safe equipment and telemetry allows for sampling in high-risk areas
- Dynamic and diverse ops give rise to a variety of acute and chronic health concerns

*“SafeGuard® multiplies my team’s capabilities and allows me to shift from reactive risk management to proactive risk mitigation.”*

## Cutting-edge, Real-Time, and Cost-Effective Exposure Awareness

With the critical nature of energy capture and distribution, it’s easy for workers to focus on production targets over their own health & safety. The lack of objective data makes it difficult for workers and management alike to walk the fine line between hard work and safe operations.

Vigilife’s SafeGuard platform enabled remote IH leaders and field-level personnel to access alerts and insights on key physiological and environmental readings, which provided:

1. Enhanced confidence and self-awareness
2. An ability to make data-driven decisions
3. A significant increase in data at a fraction of the usual cost.



RKI Instruments  
GX-3R Pro



Larson Davis  
Spartan 730

Atmotube  
PRO



*“I feel empowered through an understanding of my body and working environment.”*

## SafeGuard-enabled Outcomes

**13x**

Increase in volume of industrial hygiene data

**50%**

Estimated reduction in OpX cost for IH data collection

**2**

Different types of intrinsically safe sensors deployed to high-risk areas

**20%**

Productivity increase from data-driven decision-making

Contact [info@vigilife.com](mailto:info@vigilife.com) to learn more or to request a product demonstration.