Oil & Gas Protection

The U.S. government expects pipeline companies to report an average of approximately **32 pipeline security incidents annually.**

SpotterRF's Compact Surveillance Radar

- Offers *turnkey solutions* for wide area and perimeter surveillance

- Open design allows for *seamless integration* to all major existing VMS platforms and surveillance equipment

- Easy to deploy & *cost-effective*

Protection Beyond Fences

SpotterRF

The Protection of Energy Facilities

The U.S. Transportation Security Administration's (TSA) and the CRS Surface Security Plan identified improvised explosive devices as key risks to energy pipelines, which "are vulnerable to terrorist attacks largely due to their stationary nature, the volatility of transported products, and [their] dispersed nature."

The United States hosts 2.7 million miles of pipelines that transport oil, natural gas, and other fossil fuels that are hazardous and potentially explosive. In a report the U.S. Congressional Research Service (CRS) argued that they are making pipeline security a national security issue. "Ongoing threats against the nation's natural gas, oil, and refined product pipelines have heightened concerns about the security risks," wrote CRS in its report, Pipeline Security: Homeland Security Issues in the 116th Congress.

The oil and gas industries are a major primary source of energy throughout the world, which makes the energy sector an attractive target for coordinated attacks from drones, piracy, or more conventional attacks which can affect supply chains, economic solvency, and can impact national security. Any threat can cause severe economic and environmental damage and can have global consequences.
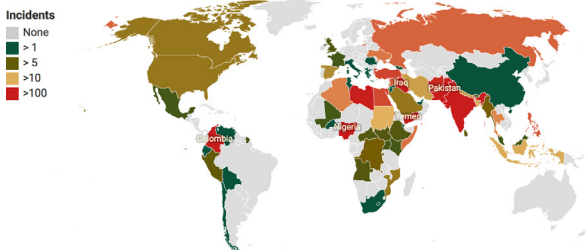
Threat Mitigation:

- International Conflicts
- Terrorism
- Sabotage
- Organized Crime
- Civil Disturbances
- Malicious Vandalism
- Internal Sabotage
- Maritime Piracy

SpotterRF Solution:

- Enhanced situational awareness with 24/7 automated detection and tracking of targets in user-specified zones.
- Immediate alerts and visual when animals, people, or other vehicles/aircraft/drones are approaching.
- Coverage of the entire interior/exterior areas implementing deter, delay, detect, assess, and respond (DDDAR).

Attacks on Oil and Gas Facilities, 2000 to 2016

Incidents
- None
- > 1
- > 5
- >10
- >100

SpotterRF Systems

SpotterRF Systems can be easily installed on almost any existing infrastructure and be used as part of a mobile radar kit. Our radars easily integrate with PTZ cameras and deterrent systems like frequency jammers. SpotterRF Radars can be deployed to cover any security needs whether over ground, water, or air. SpotterRF perimeter security systems work in all weather conditions.

NetworkedIO has SPOTTERai artificial intelligence programs that reduce alarms and identify threats. Filters and zones can be put in place to set security level areas to react based on the threat level. This helps provide early warnings so security has ample time to take action.

Saving Time, Cost and Resources

- High level security, but with a small form factor that is barely noticeable

- 24/7 all weather protection

- GPS location of intruder, updates 8 times a second

- Slew to cue / activation of
  - PTZ cameras
  - Thermal cameras
  - Video management systems

- Fixed/Mobile Solar powered system, wireless cellular and satellite with low bandwidth SCADA

- Remote Site Monitoring - detect, assess, and respond to security threats in real time at these sites.

- Site customized coverage
  - Personalized site design
  - Custom zone layouts and Specific filters

- Cost savings
  - Radar covers more area, so less sensors mean less costs

Oil & Gas Protection

Air & Perimeter Security Protection

SpotterRF protects oil refineries, tailing ponds, wells, offshore rigs, pipelines, and tanks. All in order to help prevent threats of piracy, vandalism, war, terrorism, and environmental damage. SpotterRF's solutions include ground, water, and air radar.

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