

RAYA Technologies is an advanced fuel authentication and traceability company dedicated to securing national fuel economies and supply chains from fraud, dilution, and illicit trade. Through its flagship technology **VERIFUEL**, RAYA offers a next-generation chemical and digital fuel marking system that enables **real-time authentication, traceability, and compliance monitoring** across the entire fuel distribution network.

Unlike conventional marker solutions, **VERIFUEL** integrates **ultra-low concentration molecular markers** with **portable field detectors** and a **cloud-based analytics platform**. This combination allows rapid, on-site verification of fuel authenticity and movement - empowering governments, refineries, and fuel distributors to protect tax revenues, maintain quality integrity, and prevent market losses.

VERIFUEL Securing National Fuel Integrity & Revenue

Objective:

To implement AYA Technologies’ **VERIFUEL** platform as a national fuel authentication pilot program across selected fuel depots and retail networks - ensuring **traceable, fraud-resistant fuel** and **protection of national revenue streams**.

Key Outcomes:

- National savings and tax revenue improvement by \$10–40M+ annually
- 100% field-traceable fuel supply
- Tamper-proof authentication at every distribution node
- Reduced losses from diversion, dilution, and cross-border smuggling
- Immediate national visibility over fuel movement and integrity

>\$130B annually

- **Fuel is the largest smuggled natural resource¹**
- Every year US\$133B² of fuels are illegally **stolen, adulterated, or defrauded** from legitimate petroleum companies and governments.

>\$17B

- Total (since start) in taxes collected under the national fuel marking program in the Philippines
- Figures are direct collections of duties/taxes because the fuel is correctly marked (i.e., ensuring tax compliance).

\$10 – 120M

- **Annual budget for national fuel marking programs**
- 5-10-year service contracts
- Potential of reducing the rate of adulteration and dilution very quickly

