



Picoyune LLC



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Company Profile

Industry Sector: Environmental and industrial chemical sensors

Company Overview: Picoyune is a breakthrough chemical sensing company. Our unique and patented plasmonic technology can replace a lab's bench worth of equipment with a portable monitor that anyone can use. Facility operators need accurate, precise, and real-time information about trace level contaminants to safely operate; information that our sensors can reliably deliver. We carefully selected mercury sensing as our first target based on technical merit and customer needs.

Target Market(s): Environmental remediation, natural gas processing, coal-fire power plants, air/water quality.



Key Value Drivers

Technology*: Plasmonic mercury sensor

Competitive Advantage: Our portable solid sample analyzer saves customers time and costs by providing the needed results in the field. Our process monitor offers reliability and ease of use in taking mercury measurements critical to plant operation and safety. Our device is portable, low power, highly sensitive, and resistant to interferences. Previous generation equipment is highly sensitive, requires expert operators and complex sample pretreatment with inert gases to handle real samples. These challenges have left customers to rely on manual sampling and laboratory analysis.

Plan & Strategy: We will partner with existing instrument manufacturers to access markets leveraging their product lines, brands, and relationships. We will continue to manufacture our device to be integrated and marketed in an OEM partnership.



Management

Leadership: Jay James PhD CEO; Jeffrey Crosby PhD CTO both completed the dissertations on the topic of plasmonic sensors at UC Berkeley. They have been awarded top prizes by the NSF I-Corps, UC Berkeley LAUNCH, Photonics West, and Chapman University for entrepreneurship.

Scientific Advisory Board: Donald Lucas PhD (Lawrence Berkeley National Lab) and Catherine Koshland (UC Berkeley) initiated the research and remain on the team. Arthur Holden, has decades of analytical chemistry experience at the Department of Toxic Substances Control in California.



Product Pipeline

1. Pipeline One: Portable solids sensor for on site analysis of contaminated soils.

2. Pipeline Two: Mercury analyzer for natural gas processing plants.

3. Pipeline Three: Robust in-situ ambient air quality analyzer.