PyroGenesis designed and built a turnkey pilot demonstration plasma waste treatment system for the National Technical University of Athens. The purpose of the project was to demonstrate the ability of plasma technology to safely destroy hazardous waste, while producing minimal emissions and secondary waste.

The system consisted of a melting plasma furnace, gas fired secondary combustion chamber, gas cleaning system including a quench, venturi, and wet scrubber. All equipment was designed and fabricated by PyroGenesis. Fully automated by a PLC, the whole system was preassembled on skids, making installation and deployment extremely efficient.

The system was delivered by our team on schedule and demonstrated the ability of plasma technology to safely destroy hazardous waste.