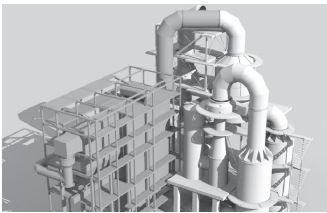


Our Presence in Italy



Environmental Remediation

CH2M HILL is a global leader in full-service engineering, planning, consulting, construction and project management, and operations. Working in Italy for more than 10 years we employ over 40 permanent staff, we have offices in Milan, Pordenone, and Catania. We provide total services for site search and due diligence, governmental permitting and approvals, environmental permitting and remediation, design, and project/construction management.



Hazardous Waste Incineration

Our local offices and staff are backed by a US\$5.8 billion company serving clients worldwide with more than 25,000 employees in 77 countries. We serve as a single point of contact and responsibility, managing your project through planning, financing, permitting, design, construction, and operations. We use technology transfer and leverage established relationships with local firms to deliver industrial and enterprise management solutions throughout Italy.

CH2M HILL is uniquely positioned to serve several markets in Italy



Wafer Fabrication Production Facility

- Environmental
- Industrial
- Energy
- Oil & Gas
- Government Facilities
- Pharmaceuticals & Biotechnology

Project examples in Italy



STMicroelectronics Fabrication Plant

Confidential Client, Chemical Company—Providing remediation and engineering services since 2001 to address soil and groundwater contamination at a manufacturing facility located in Italy. CH2M HILL executed soil, sediment, and groundwater characterization, human health and ecological risk assessments, aquifer testing, groundwater modelling, design and execution of treatability testing for contaminated soil and sediments, remedial design, execution of cleanup works, and construction of remedial systems (currently ongoing).

Confidential Client, Petrochemical Company—Provided comprehensive engineering services to optimize incineration processes for hazardous waste, which allowed significant savings on operating costs and resulted in new and more efficient DeNox and burner management systems. CH2M HILL completed the following:

- Combustion and flue gas cleaning process calculation, including process modelling tools preparation, and definition of better furnace feeding mixtures
- Basic and detailed engineering for heat recovery and power production, DeNox systems, burner management systems, water use, and flue gas cleaning optimisation

STMicroelectronics—Through a joint venture, CH2M HILL developed a new state-of-the-art 300mm wafer fabrication production facility for STMicroelectronics, one of the world's leading microelectronics and nanotechnology researchers. The greenfield site employs an open space cleanroom, specialized research suites, a central utility building, and a chemical building for the location of a bulk chemical storage and dispensing system.

Confidential Client, Industrial Wastewater Treatment Plant—Provided process, basic design, and detailed engineering for a new biological denitrification section to be inserted in an operating physical-chemical and biological wastewater treatment plant. The new section enabled for an increase in the chemical oxygen demand load to the plant, due to consumption for biological denitrification.

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Facility Use Study

U.S. Department of Defense—Since early 2000, CH2M HILL has executed projects for the U.S. Air Force, the U.S. Army, and the U.S. Navy. Services performed include:

- Environmental baseline studies
- Site characterization
- Groundwater modelling and monitoring
- Spill site assessment and monitoring
- Remedial designs preparation
- Asbestos surveys
- Stormwater management (study, design, and construction of low impact solutions)
- Dry well survey, assessment, and closure
- Biopile design and construction
- Washrack design, construction, and revamping
- Compliance support and training
- Pollution prevention studies
- Utilities survey and assessment
- GIS and database development
- Waste Management Plan
- Development and implementation of Environmental Management System

In addition, work executed at Aviano Air Base included a Facility Use Study; update of the Air Base Design Guide to reflect a full range of aesthetic, cultural, maintenance, and practical issues; and development of a concise Architectural Compatibility Guide. The guide was recognized for design excellence by the U.S. Air Force in Europe and Air Force Center for Environmental Excellence.

Confidential Client, Wetland Treatment—Completed a detailed design of a 100-hectare Fusina wetland system for the treatment of wastewater that complies with Venice Lagoon discharge standards; the treated water will be sold for reuse by nearby industrial facilities. The project involved the redevelopment of a large dredge spoil area to recreate wetland ecosystem functions, with the incorporation of recreational facilities for the local community. CH2M HILL is providing continuous support in the construction management in the current construction phase. It will be the largest system of its type in Europe once completed.

Confidential Client, Petrochemical Company—Focused on production process and effluent analysis according to Integrated Pollution Prevention and Control criteria. The project involved:

- Compliance assessment against new legislation requirements
- Examination of water use in single production processes; identification of pollution- generation processes; and comparison to IPPC benchmarks of water use and specific pollution generation
- Effluent flow measurement and sampling
- Topographic survey and new mapping of sewer system by GIS tools
- Definition of new effluent management criteria and protocol
- Basic design and cost estimate for the new units required to optimize the sewer system