

Private Sector, University, DOE, and DoD Partnerships for Deployment and Commercialization of the Well Injection Depth Extraction (WIDE™) Technology Case Study

J.D. Quaranta

Informatics Corporation
Richland, Washington, USA

R.G. Spears

U.S. Department of Energy
Morgantown, West Virginia, USA

The road to deployment and sector commercialization for the Well Injection Depth Extraction (WIDE™) Technology is presented and discussed tracing the technology from the academic R&D initiative through to demonstrations at DOE and DoD field sites. Discussions of four different private / government partnerships with information pertaining to the contractual relationships of the organizations, project management and planning issues, regulatory compliance interfacing, public participation, partnership approach, and lessons learned will be presented and discussed. The WIDE technology began through research funding through a University Cooperative Agreement administered by the National Energy Technology Laboratory (NETL) to West Virginia University in early 1992. With laboratory and pilot testing successes field demonstrations were initiated. The first site was a former gas station facility and the project team assembled for this 1996 demonstration included the DOE-NETL, West Virginia University, the Nilex Corporation, and the Ashland Petroleum Corporation, the site owners. In early 1997 the NETL partnered with the DOE Ohio Field Office for demonstration of the WIDE™ technology at the Ashtabula Environmental Management Project. Here the demonstration team included the DOE-NETL (EM-50), Ohio Field Office (EM-40), West Virginia University, North Carolina State University, 3M Corporation, Nilex Corporation, the SpinTek Corporation, and Earthline Technologies. The efforts of this project proved beneficial with results indicating the WIDE™ technology could support the DOE-OHIO for site remediation. Two deployments of the WIDE™ technology scheduled for 2000 and 2001 include the Former Lockbourne Air Force Base pilot demonstration and the DOE Accelerated Site Technology Deployment project planned for the Battelle – West Jefferson Site, both sites are located in Columbus, Ohio. The Former Lockbourne AFB project began in September 2000 with the project team consisting of the following seven organizations: US DOE – National Energy Technology Laboratory, US Army Corps of Engineers – Louisville, KY, Nashville, TN, and Huntington, WV District Offices, Informatics and Nilex Corporations, the North Carolina State University, and the Rickenbacker Port Authority. For the DOE Accelerated Site Technology Deployment at the Battelle West Jefferson Facility in Columbus, OH the project team includes: DOE-NETL, DOE-Ohio Field Office and DOE Columbus Environmental Management Project, the Informatics and Nilex Corporations, the North Carolina State University, Battelle, and the 3M Corporation. The Ohio EPA was the regulatory organization involved for work performed at the three Ohio sites.