

PI.18 Hemispheric Center for Environmental Technology (HCET) at Florida International University

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Introduction

The Hemispheric Center for Environmental Technology (HCET) is an applied science and engineering research and development (R&D) organization. HCET was established in 1995 by Florida International University (FIU) and the Office of Science and Technology of the U.S. Department of Energy (DOE-OST).

Objective

HCET's objective is to research, develop, and demonstrate innovative environmental technologies and assist technology vendors in deploying and commercializing innovative technologies for environmental remediation.

Approach

The Center is administered in part by DOE's Federal Energy Technology Center (FETC) and works in tandem with DOE to advance the deployment of safe, cost-effective environmental technologies. Through the legal framework of the non-profit [501(c)(3) status] FIU Research Corporation, HCET pursues new business opportunities in the United States, throughout Latin America, and in the Caribbean.

Project Description

Our fields of expertise include the following:

- Facility deactivation, decontamination, decommissioning, and dismantlement
- Waste treatment, storage, and disposal
- Waste characterization
- Monitoring and sensor technology integration

- Robotic systems design and development
- Information management and decision support systems
- Modeling, simulation, and visualization techniques
- Material stabilization
- International technology transfer and integration.

Benefits and future activities

We are well-positioned to promote and deploy environmental technologies to our customers in various markets. We offer our clients a full suite of environmental technology services ranging from assessing their needs and managing their projects to technology research, development, assessment, and deployment.