

VII.4 Lansing Community College Alternative Energy Initiative (New Project)*

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**Congressionally directed project*

Objectives

- Increase the number of technicians available to service and maintain equipment using hydrogen technologies, per DOE and industry projections;
- Provide an open and accessible site to view and work with hydrogen fuel cells and alternative energy equipment at an alternative energy laboratory at Lansing Community College's (LCC's) new West Campus;
- Build additional direct links to business and industry, and other educational institutions, to ensure that energy technician training curriculum, teaching methods and community education programs are current and effective;
- Become a resource center for educators, innovators and policy-makers who seek information on hydrogen as an energy resource, its potential and its challenges.

Technical Barriers

This project addresses the following technical barriers from the Education section of the Hydrogen, Fuel Cells and Infrastructure Technologies Program Multi-Year Research, Development and Demonstration Plan:

- A. Lack of Awareness
- B. Lack of Demonstrations or Examples of Real World Use
- C. Institutional Barriers and Access to Audiences

Approach

LCC's goal is to increase the viability and deployment of hydrogen fuel cell and renewable energy technology by creating an integrated educational program that will promote comprehensive training for all alternative energy applications.

With the support of DOE designated funds, LCC proposes a project beginning August 2004 and completing in June 2006 in the four critical areas of: 1) curriculum development; 2) equipping its laboratory and related facility, 3) faculty education; and 4) community outreach and education. The project will involve faculty and administrators from across the college, with specific input from those specializing in transportation technologies, manufacturing and land technologies, and construction and maintenance technologies.

The Alternative Energy Initiative is designed to spur economic development and educational opportunities in our region and our state. LCC's proposed programs will engage business, industry and governmental partners to ensure the development of a relevant educational experience.