

# Montana Hydrogen Futures Project

The University of Montana  
Missoula College of Technology

**Project ID#: ED4**

This presentation does not contain any proprietary or confidential information

# Timeline

- Project Start Date: November, 2004
- Project End Date: April, 2006
- Percent complete: 30%

# Budget

- H2 Safety Center \$219,570
- K-12 H2 Web Site \$117,429
- Energy Technicians Program \$275,895
- Futures Park Planning \$210,230

# Barriers

- Lack of Awareness
- Lack of Demonstration or Real World Use
- Hydrogen workforce infrastructure
- Institutional Barriers and Access to Audiences
- Ongoing funding sources
- Regional Differences in State

# Objectives

1. To develop a college curriculum for energy technicians
2. To establish a hydrogen safety training Center at the UM-MCOT
3. To develop a hydrogen futures information and education web site supporting the growth and development of a hydrogen economy
4. To work with consultants and faculty to develop a program and facilities plan for the Hydrogen Futures Park @ UM

# Approach Overview

*Development of educational infrastructures that support the creation of a Montana Hydrogen Economy and stimulate national progression of hydrogen technology.*

- Mobilizing of expertise
- Development of plan of work and project management
- Interface with DOE
- Management of development process
- Completion of work
- PR and Implementation of projects

# Progress: Energy Technician Program

- Advisory Board
- Curriculum Content
- Web based coordination
- Course Development
- On-line input
- Approvals
- Implementation

# Progress: Hydrogen Safety Center

- Partnership with practitioners
- Curriculum identification
- Securing equipment
- Program Marketing

# Progress: H2 Education Web Site

- Site Design
- Key Elements
  - Hydrogen Economy: History, Politics, Fuel Cells, International, Production, Renewables, Nonrenewables, gasification
  - Hydrogen Education: Degree Programs, Tutorials, Futures Park
  - About Hydrogen: History, Chemistry, Biology, Physics, uses
  - Resources: Links, Ask an Expert-Chat/Mess Bd, Video Gallery
  - Curriculum: Lessons, EERE/DOE, Standards
  - Contacts



# Progress: H2 Futures Park

- Business Plan
- State and national support
- Architect identification
- Plan and site development
- Marketing Plan
- State and University approvals
- Advisory Board interface

# Accomplishments

- State Legislative and Political Support
- Legislative Authorization
- Educational interface
- University Interest
- Phase I completion in programs development
- Land Acquisition

# Future Work

- Completion of existing projects
- Biomass project
- Alternative Energy Learning Site
- State-wide wind measurement and business development initiatives
- Futures Park