MN’s Statewide Energy Training Plan

Building a Collaborative Compendium of Effective Workforce Development Initiatives

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Topics to Cover

- MN Training Overview
- Training Plan Highlights
  - MN Green Jobs Vacancy Survey
  - Energy Training Map
  - Statewide Training Networks
  - Credentialing Assistance Rebate for Energy Training (CARET)
- Funding Coordination
- Career Pathways
- Next Steps
MN Training Overview

- Historically disparate training initiatives
  - Many qualified trainers
  - Few industry credentialing options
  - Unclear job forecast
- Influx of Federal Training $$
  - $20 Million in ARRA Funding
  - Statewide in scope
  - Multi-level in approach
  - One-day to semester-long initiatives
  - Industry-recognized certifications
- Statewide broad partnerships formed
Federal Stimulus Funding

- Multiple Federal Funding Sources
- Low-income & middle skills focused
- Four main topic areas:
  - Energy-efficient construction, and reconstruction
  - Renewable electric power industry (inc. Bio-fuels)
  - Building systems maintenance
  - Green manufacturing
Statewide Energy Training Plan

- Work with MNSCU, MOHE, & DEED
- Coordinate, oversee, and monitor the training and certification of energy professionals;
- Allocate stimulus funding; and
- Provide energy code compliance and enforcement training
- $3.5 Million
Training Plan Strategies

1. Define MN’s Clean Energy **Workforce**
2. **Inventory** Current Training Initiatives
3. **Develop Capacity** of Existing Training Initiatives
4. Make Skills Training **Affordable & Accessible**
5. **Collaborate** with Other Training Efforts
6. Disseminate Career & Training **Information**
7. Develop **Recommendations** for Future Training-Related Efforts
MN’s Clean Energy Workforce

- A job that provides an opportunity to be directly engaged in energy efficiency or renewable energy
- 900 current “green job” vacancies found:
  - Energy efficiency & Energy Conservation (48%)
  - Renewable energy/alternative fuels (13%)
- 70% in Greater MN
- 83% require experience
- 72% require post-secondary education
- STEM knowledge needed for “green” jobs
Inventory Training Initiatives

MNSCU Green Jobs
- [http://portal.environment.umn.edu/](http://portal.environment.umn.edu/)

UMN Sustainability Portal
- [http://portal.environment.umn.edu/](http://portal.environment.umn.edu/)

Midwest Power Training Skills
- [www.midwestpowerskills.net](http://www.midwestpowerskills.net)

Center for Energy Workforce Development
- [www.cewd.org](http://www.cewd.org)
iSeek Energy

- Joint powers agreement
- Energy portal
- Direct link to live wage data, certifications, & job vacancies
- Free to all users

http://www.isseek.org/industry/energy/index.html
Clean Energy Training Maps

- Energy Efficiency
- Renewable Energy
- Traditional
- Transmission & Distribution
Clean Energy Training Maps

- Licensed Programs
- Registered Apprenticeships
- Industry-Recognized Certification Related Training & Testing
Clean Energy Training Maps

- Multiple data layers
- Statewide Coverage
- Interactive
- Linked to external resources for more information
Clean Energy Training Maps

- iSEEK Portal
- Links to Career OneStop Certification Data
- Links to Wage Data

http://www.iseek.org/industry/energy/education/energy-certification-map.html
Career Pathways

- Residential Energy Efficiency
- Commercial Energy Efficiency
- Transmission / Distribution
- Wind
- Ethanol
- Solar
- Ground Source Heat

www.energycareerpathways.org
Career Pathways

- Compare Careers
- Salaries
- Educational Requirements
- Occupational Descriptions

www.energycareerpathways.org
MN Training Networks

Instructor Networks
- MN Building Performance
- MN Small Wind Training
- MN – Midwest Solar Training

Benefits to Training Networks
- Led by Training Leaders
- Disseminates quality quickly
- Sets standard
- Transforms industry
Credentialing Assistance Rebate for Energy Training (CARET) Program

- $250,000 program – fully subscribed
- 19 institutions statewide
- Over 30 credentials pursued
  - International Sustainable Power Quality (ISPQ) Accreditation: solar, small wind, efficiency
  - Building Performance Institute Affiliation
  - Green Building Certification Institute LEED Training Provider
  - EPA Lead Training Provider
  - AEE Training Providers
Keys to Innovative Partnerships:

- Asset based
- Cross sector
- Multi-tiered

No one discipline, institution, or specialization can answer the questions that now confront us. We all must draw from many different perspectives to reweave the world.

~ Margaret J. Wheatley, Leadership and the New Science
~ Thank You ~

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