

LEO BEDARD, CLEAN ENERGY TECHNICAL SCHOOL TASK FORCE (MA)

http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Bedard_MA_High_Schools.pdf

- 14,400 jobs could go to students: 28% Consulting and Support (4,016) and most of the 43% Energy Efficiency (6258)
- Tech School Teacher Training
 - Courses offered in 15hr increments
 - Tech Teachers will be brought up to speed with RE installations
 - Stipends and PDPs granted
- College level courses will be taught in Community Colleges
 - Reduced tuition for tech teachers
 - Science credits given
- Mass Technology Collaborative (MTC) will continue to fund equipment
 - Seeking industry support
 - Partnerships with Community Colleges
- Proposed Legislation & Grants
 - Environmental Bond Bill
 - Workforce Improvement Grants
 - National Green Job Act
 - Green Communities Act
 - Mass Clean Energy Bill
- Clean Energy Tech School Task Force meets monthly to discuss:
 - Curriculum
 - Funding
 - Legislation

JENNIE LANE, WISCONSIN K-12 ENERGY EDUCATION PROGRAM (KEEP) (WI)

- Program Areas
 - Professional Development
 - 6 graduate level courses
 - Workshops/trainings
 - Student Involvement
 - Bright Idea Fundraiser
 - Student-built Homes
 - Bookmark contest
 - Wisconsin Electrathon
 - Annual Awards Ceremony
 - Resources
 - Activity Guides and Supplements
 - Pedal Power energy bike
 - Hand-crank Generator
 - Energy Education Kits
 - Networking and Outreach
 - Conferences
 - Newsletter
 - Electronic bulletin
 - Web site
- Professional Development
 - Graduate Level Courses

- NRES 730: Energy Education in the Classroom
 - NRES 731: Selected Topics in Energy Education
 - NRES 732: Doable Renewables: Renewable Energy
- Education in the Classroom
 - NRES 733: Energy Education: Concepts and Practices (online)
 - NRES 734: School Building Energy Efficiency Education
 - NRES 735: Renewable Energy Education (online)
- *Better Buildings: Better Business* Conference
- Workshops/trainings
- Student Involvement
 - Energy Star Homes
 - Home Performance with Energy Star
 - Renewable Ready Homes
 - Student Buildings of the Year
 - Wisconsin Electrathon
 - Career Related Activities
 - Annual Bookmark Contest - each year brings new energy topic

MICAH ALLEN, THE POTENTIAL FOR ON-LINE AND BLENDED EDUCATIONAL FORMATS FOR ENERGY EFFICIENCY TRAINING (CO)

http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Allen_OnLine-Blended_Formats_for_Energy_Efficiency.pdf

- Metro Denver ‘Wired’ Initiative
 - ‘Green’ Training and Internships for 100+ un- or underemployed people in Denver, CO
 - Four+ classes on Energy Efficiency and renewable energy technology
 - All lectures online in public domain
 - Built around Moodle: An Open Source Course Management
 - Develop close relationship with industry partners, iCAST alumni and academia
- Long Term “Goals”
 - The ‘YouTube’ of Energy Opportunities
 - Bring Energy Efficiency to Rural America
 - Personalize Measures
 - User/auditor creates ‘MyHome’ portal that saves information between visits
 - Currently built on DOE2 Modeling Software
 - Calibrated Cost/Savings estimates
 - Videos of all suggested measures
 - Continually add new suggestions/refine model

JEFFREY D. WOLFE, PE, INDUSTRY PANEL – WHERE & WHAT ARE THE JOBS?

http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Wolfe_What_Where_are_the_Jobs.pdf

- PV Installation
 - Installers / Electricians / Plumbers
 - 70,000 / 10,000 / ????
 - Accounting / Administration
 - 1000 / 1000
 - Purchasing Agent / Warehouse
 - 500 / 2000

IRECUSA.org – Workforce Development Conference Participant Presentations

- Project Managers / Engineers
 - 5,000 / 2000
- IT/IS/HR/Estimators/Drafters/...
- 2300 PV jobs at stake in NY due to ITC expiration
- Opportunity with the Housing Slowdown
 - Retraining – 3 to 6 weeks classroom/shop + 2 months field training
 - Need to be willing to relocate
- Need stronger incentives from state and federal

STEPHEN COWELL, INDUSTRY PANEL – WHERE & WHAT ARE THE JOBS?

http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Cowell_Energy_Efficiency_Industry_Job_Creation.pdf

- Punch list of new jobs
 - Home construction and renovation:
 - Introducing performance testing and computer diagnostics
 - Building controls and automation:
 - Manufacturing, installation and operation of energy management systems
 - HVAC system installation and maintenance: computer diagnostics / testing
 - Building Retrofit: lighting, shell and HVAC systems
 - Operation and Management services that lower long term energy costs through controls
 - Renewable energy systems: (PV, wind) installation and maintenance High skilled specialty trades in organized labor
 - Distributed Generation: sales, installation and operation of CHP and other technologies
 - Demand Response: Using controls and
 - EMS systems to reduce peak power
- Punch list of new jobs: Energy Efficiency
 - Products: manufacture, sales, installation and maintenance
 - Evaluation services: efficiency services require measurement and evaluation
 - R&D new products and services will be in high demand
 - Architecture and engineering specialists