



Clean Energy Industry Workforce Issues: Employer Engagement

National Center for a Clean Energy Workforce Scoping Workshop

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Clean Energy State Leadership Scorecard

| State | Total Marks Earned (out of 56 possible) | Percent of Total Marks Possible |
|---------------|---|---------------------------------|
| California | 48 | 86% |
| Massachusetts | 45 | 80% |
| Oregon | 43 | 77% |
| Colorado | 35 | 63% |
| New Jersey | 35 | 63% |
| Connecticut | 34 | 61% |
| New York | 34 | 61% |
| Maryland | 32 | 57% |
| Washington | 32 | 57% |
| Minnesota | 30 | 54% |
| Arizona | 28 | 50% |
| Illinois | 28 | 50% |
| Florida | 24 | 43% |
| Pennsylvania | 24 | 43% |
| Texas | 20 | 36% |

Source: Clean Edge, Inc., 2010





NASDAQ: ENOC NASDAQ: ENOC

ENERNOOC
get more from energy

NASDAQ

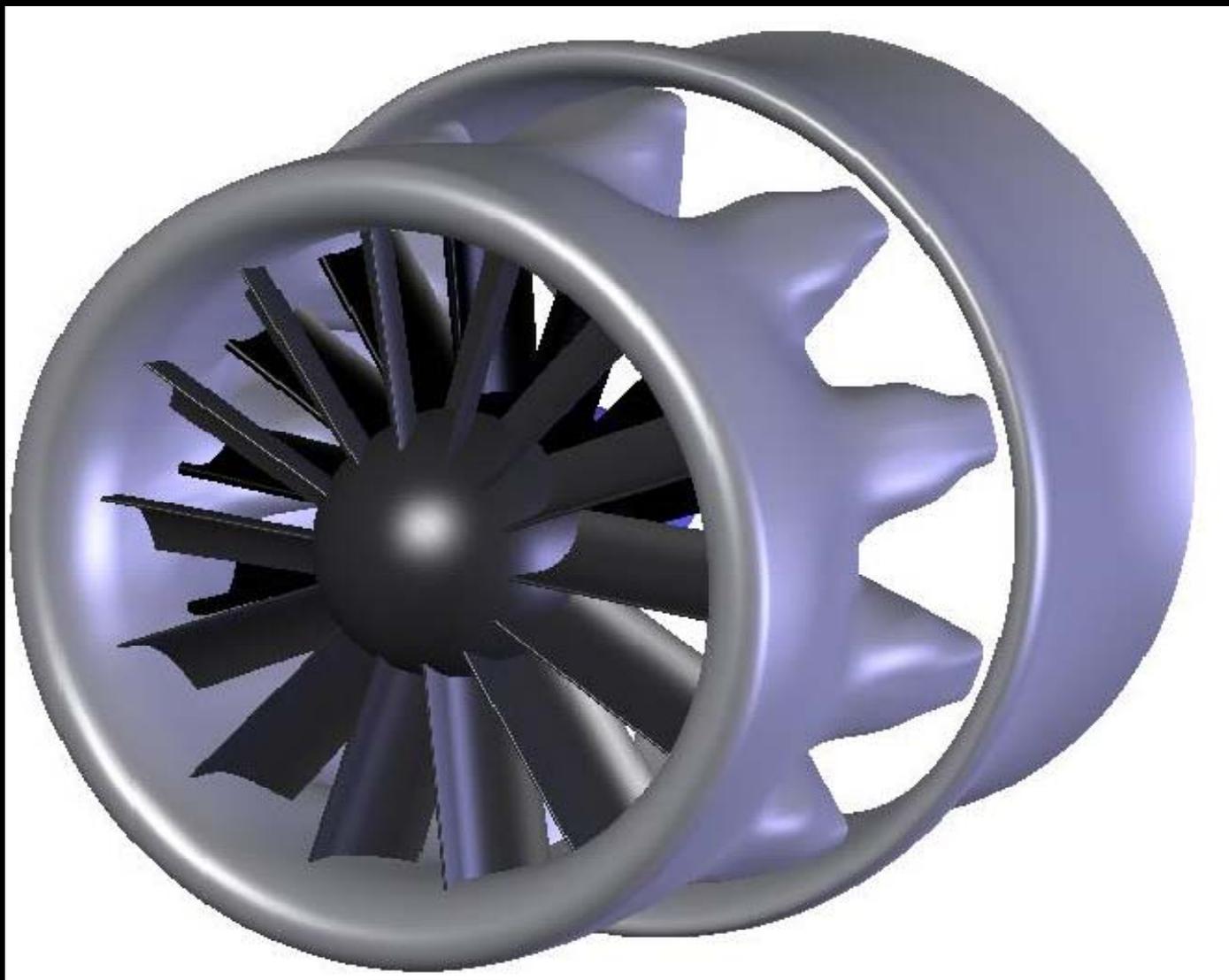
QTEROS



Turbine Technology



FloDesign Wind Turbine



Advanced Insulation

aspen | aerogels



Council's Current Programs

Innovation

- Consortia
- Mentorship / EIR Program
- Fellowship & Exec Ed

Growth

- DC Fly-in
- Conference partnerships
- Finance Series

Education

- Workforce Development – Employer Forums
- Workforce training DB

Adoption

- Gov Clean Energy Challenge
- Developers Roundtable

Policy

- Climate / energy federal advocacy
- State, regional policy initiatives
- *NEW*: RGGI & N.E. Clean Energy 2.0

Workforce Issues and Solutions

Issue: How can the industry help the workforce development, education and training community create effective initiatives that meet real clean energy industry needs in a timely fashion?

Our solution: Development of a creative employer engagement initiative within the workforce program of the New England Clean Energy Council.

What does the the workforce community want from clean energy employers?

(1) Venues for building relationships/sharing information

(2) Labor market and training information

- * Company names and contacts
- * Current employment data
- * Representative job descriptions and KSA needs
- * Workforce need trends and projections
- * Preferred training and education providers

(3) Active participation in workforce and training programs

- * Assistance with program development and delivery
- * Posting positions on job boards
- * Hosting of Interns, fellows and co-op education students
- * Bringing booths to career fairs, conferences, workshops
- * Job placement! Job placement! Job placement!

Reliable “green job” labor market information



Massachusetts Residential Energy Efficiency Workforce Needs, 2008–2012



Our 2009 study of residential energy efficiency workforce needs helped Massachusetts understand how many auditor, weatherization and HVAC jobs were likely from ARRA and other new efficiency investments.

| Year | Auditor FTEs | Change | Insulation/AS FTEs | Change | HVAC/R FTEs | Change |
|------|--------------|------------|--------------------|-------------|-------------|-------------|
| 2008 | 95 | ---- | 276 | ---- | 184 | ---- |
| 2009 | 125 | +30 | 488 | +212 | 380 | +196 |
| 2010 | 157 | +32 | 677 | +189 | 516 | +136 |
| 2011 | 189 | +32 | 799 | +122 | 754 | +238 |
| 2012 | 227 | +38 | 805 | +6 | 791 | +37 |



Massachusetts Clean Energy Careers Training & Education Directory



New for 2011! The Massachusetts Clean Energy Internship Opportunity Program will support internships of participating Massachusetts clean energy companies. Information and applications are available. [MCEI - Company Registration](#)



The Massachusetts Clean Energy Careers Training & Education Center Directory aims to connect energy efficiency and renewable energy industry professionals, job seekers, and students with education and training opportunities throughout the Commonwealth.

We hope you find this site to be a helpful resource, whether you are pursuing a career in the clean energy industry, advancing your present career by acquiring new skills and knowledge, or simply satisfying a desire to learn more about the field, existing and important sites.



CleanEnergyEducation.org is a collaborative effort between the Northeast Energy Efficiency Partnerships and the New England Clean Energy Council, in partnership with the Massachusetts Clean Energy Center.

Browse Programs by Category

TRAINING TYPE

- Academy Programs
- Associate's Degree
- Bachelor's Degree
- Certificate Programs
- Master's Degree
- PhD Program
- Vocational/Technical HE
- Career Training
- Apprenticeship
- Community-Based Programs
- Continuing Education
- Continuum Development
- Licensing/Certification
- Professional Development
- Self-Administration
- Vocational

SPECIALIZATION

- Background Skills / General
- Energy Business
- Energy Efficiency
- Energy Planning & Policy
- Energy Technology
- Renewable Energy Development
- Sustainable Design/Construction
- Specialized Programs

The NE Council has collaborated with the Massachusetts Clean Energy Center and the Northeast Energy Efficiency Partnerships to create a continually updated online directory of all clean energy training and education programs in the state.

Cleanenergyeducation.org will later be expanded to cover all of New England.

The Massachusetts Clean Energy Careers Training & Education Center Directory aims to connect energy efficiency and renewable energy industry professionals, job seekers, and students with the many opportunities for education and training that exist throughout the Commonwealth.

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CleanEnergyEducation.org is a collaborative effort between the Northeast Energy Efficiency Partnerships and the New England Clean Energy Council, in partnership with the Massachusetts Clean Energy Center. While these partners strive to maintain the accuracy of the information being presented on this site, users are urged to independently conduct any research of interest to verify and obtain additional information.



Education and Fellowships for New Clean Energy Industry Entrepreneurs



Programs



Executive



Boston University School of Management
Executive Programs

Leading Clean Energy Ventures

Offering executives a better understanding of the emerging clean energy landscape

February 3 - April 28, 2011

Boston University School of Management
Executive Leadership Center

*For complete program details visit
bu.edu/cleanenergyventures*

Building partnerships through multi-stakeholder workforce roundtables



Program Goals: Provide employer viewpoint to clean energy workforce development, recommending ideas and actions to accelerate job growth and assure a high quality workforce in Massachusetts

Core Funding: Garfield Foundation, Skillworks, member companies

Other partners: MA Clean Energy Center, University of Massachusetts

Actions:

- Hold roundtables in Lowell, New Bedford and Amherst
- Complete analysis of findings and recommendations
- Disseminate results through webinars, in-person meetings, website posts

Contact Us!



For more about our employer engagement efforts, contact:

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Visit NECEC online at www.cleanenergycouncil.org