



**EPA's Local Climate and Energy Webcast**  
**Clean Energy Workforce Development**  
 January 2010



**Clean Energy Workforce Development Resources**

**Compendia of Example Local Government Programs/Activities**

<i>Green-Collar Jobs in America's Cities: Building Pathways Out of Poverty and Careers in the Clean Energy Economy</i> (March 2008)	<a href="http://www.apolloalliance.org/downloads/greencollarjobs.pdf">http://www.apolloalliance.org/downloads/greencollarjobs.pdf</a>
<i>Green for All</i>	Highlights green jobs programs from around the country; updated regularly with new examples. <a href="http://www.greenforall.org/resources/people-programs">http://www.greenforall.org/resources/people-programs</a>

**State Assessments of Green Jobs Potential**

<b>California</b>	
<i>Center for Excellence's California Solar Industry Workforce Study</i> (2008)	<a href="http://www.coecco.net/solar/index.asp">http://www.coecco.net/solar/index.asp</a>
<b>California</b>	
<i>Center for Excellence's Energy Efficiency Occupations Environmental Scan</i> (March 2009)	<a href="http://www.coecco.net/Environmental_Scans/ee_scan_sf-gsv_09.pdf">http://www.coecco.net/Environmental_Scans/ee_scan_sf-gsv_09.pdf</a>
<b>Colorado</b>	
<i>Green Collar Jobs in the U.S. and Colorado</i> (December 2008)	<a href="http://www.colorado.gov/energy/images/uploads/pdfs/GreenJobsReportFull.pdf">http://www.colorado.gov/energy/images/uploads/pdfs/GreenJobsReportFull.pdf</a>
<b>Connecticut</b>	
<i>RE/EE Economy Baseline Study</i> (March 2009)	<a href="http://www.ctcleanenergy.com/Portals/0/Phase%201%20Deliverable_Final%20Full.pdf">http://www.ctcleanenergy.com/Portals/0/Phase%201%20Deliverable_Final%20Full.pdf</a>
<b>Minnesota</b>	
<i>MN Green Jobs Task Force Final Action Plan</i> (February 2009)	<a href="http://www.mngreenjobs.com/">http://www.mngreenjobs.com/</a>
<b>New York</b>	
<i>Working Group VII – Workforce Training and Development Scope, Task, and Schedule</i> (August 2008)	<a href="http://www.dps.state.ny.us/07M0548_Working_groups_phase2.htm">http://www.dps.state.ny.us/07M0548_Working_groups_phase2.htm</a>



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<b>Oregon</b>	
<i>An Analysis of Clean Energy Workforce Needs and Programs in Oregon</i> (May 2008)	<a href="http://www.worksourceoregon.org/index.php/component/docman/doc_details/734-analysis-of-clean-energy-workforce-needs-and-programs-in-oregon">http://www.worksourceoregon.org/index.php/component/docman/doc_details/734-analysis-of-clean-energy-workforce-needs-and-programs-in-oregon</a>
<b>Tennessee</b>	
<i>Growing Green: The Potential for Green Job Growth in Tennessee</i> (November 2008)	<a href="http://www.state.tn.us/labor-wfd/Publications/EmploymentSecurity/GrowingGreenInTN2008.pdf">http://www.state.tn.us/labor-wfd/Publications/EmploymentSecurity/GrowingGreenInTN2008.pdf</a>
<b>Washington State</b>	
<i>2008 Washington State Green Economy Jobs</i> (February 2009)	<a href="http://energy.wsu.edu/documents/Green_Jobs_Report_2008.pdf">http://energy.wsu.edu/documents/Green_Jobs_Report_2008.pdf</a>

**National Assessments of Green Jobs Potential**

<b>EESI Summary of Green Jobs Potential Studies</b>	
<i>Jobs from Renewable Energy and Energy Efficiency</i> (November 2009)	Factsheet that catalogs numerous studies of the number of jobs that could be created through energy efficiency and renewable energy policies by location, scope, and technology: <a href="http://www.eesi.org/fact-sheet-jobs-renewable-energy-and-energy-efficiency-19-oct-2009-0">http://www.eesi.org/fact-sheet-jobs-renewable-energy-and-energy-efficiency-19-oct-2009-0</a>
<b>American Solar Energy Society (ASES)</b>	
<i>Green Collar Jobs Report</i> (January 2009)	Report that describes results from a study that attempted to comprehensively estimate the size and scope of the renewable energy and energy efficiency industries and their potential for growth: <a href="http://www.ases.org/greenjobs">www.ases.org/greenjobs</a>
<b>Center for American Progress</b>	
<i>Stronger Climate Policies Will Create Low-Carbon Jobs Worldwide</i> (December 2009)	<a href="http://www.americanprogress.org/issues/2009/12/gcn_jobs.html">http://www.americanprogress.org/issues/2009/12/gcn_jobs.html</a>
<i>Jobs for Today, Jobs for the Future</i> (December 2009)	<a href="http://www.americanprogress.org/issues/2009/12/jobs_for_today.html">http://www.americanprogress.org/issues/2009/12/jobs_for_today.html</a>
<i>Creating Clean Energy Jobs to Drive Economic Recovery</i> (October 2009)	Senate Testimony on Job Growth, Tax Incentives, and Small Business <a href="http://www.americanprogress.org/issues/2009/10/hendricks_cap_testimony.html">http://www.americanprogress.org/issues/2009/10/hendricks_cap_testimony.html</a>
<i>The Economic Benefits of Investing in Clean Energy</i> (June 2009)	<a href="http://www.americanprogress.org/issues/2009/06/clean_energy.html">http://www.americanprogress.org/issues/2009/06/clean_energy.html</a>
<i>Interactive Map: A State-by-State Look at Clean Energy and Job Creation</i> (June 2009)	Click on a state to see the number of jobs that investment in clean-energy projects would create and how that would affect the unemployment rate. <a href="http://www.americanprogress.org/issues/2009/06/clean_energy_map.html">http://www.americanprogress.org/issues/2009/06/clean_energy_map.html</a>
<i>Clean Energy Investment Creates Jobs in Every State</i> (June 2009)	Fact Sheets for the 50 States and DC. <a href="http://www.americanprogress.org/issues/2009/06/clean_energy_factsheets.html">http://www.americanprogress.org/issues/2009/06/clean_energy_factsheets.html</a>



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<i>Green Recovery</i> (September 2008)	Report demonstrates how a green recovery program that spends \$100 billion over two years would create 2 million new jobs. Includes state-by-state fact sheets and tables listing types of jobs that would be needed in each sector: <a href="http://www.americanprogress.org/issues/2008/09/green_recovery.html">http://www.americanprogress.org/issues/2008/09/green_recovery.html</a>
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**Federal Resources**

<b>Basic Workforce Development Information and Resources</b>	
U.S. Department of Labor (DOL) Workforce Professionals Home Page	First stop for numerous resources, tools, updates, and links intended to assist the nation's workforce professionals in serving the needs of workers and business: <a href="http://www.doleta.gov/USWORKFORCE/">http://www.doleta.gov/USWORKFORCE/</a>
U.S. DOL Industry/Employers Workforce Home Page	First stop for understanding the public workforce system; how it can help meet business/economic development objectives; how to get involved in one's own region: <a href="http://www.doleta.gov/business/">http://www.doleta.gov/business/</a>
National Registered Apprenticeship Program	<a href="http://www.doleta.gov/OA/">http://www.doleta.gov/OA/</a>
<b>Select Department of Labor Grant Programs</b>	
State Energy Sector Partnership and Training Grants	Under this grant, State Workforce Investment Boards are encouraged to engage in a strategic planning process that aligns the governor's overall workforce vision, state energy policies, and local and regional training activities that lead to employment in the EE and RE industry sectors. <a href="http://edocket.access.gpo.gov/2009/E9-14922.htm">http://edocket.access.gpo.gov/2009/E9-14922.htm</a>
Energy Training Partnership Grants	Projects will provide training and placement services in the EE and RE industries for workers affected by policy, individuals in need of updated training, and unemployed workers. <a href="http://edocket.access.gpo.gov/2009/E9-14924.htm">http://edocket.access.gpo.gov/2009/E9-14924.htm</a>
Pathways Out of Poverty	Grant funds are available for projects that integrate training and supportive services into cohesive programs to prepare individuals seeking pathways out of poverty for careers in the EE and RE industries. <a href="http://edocket.access.gpo.gov/2009/E9-14928.htm">http://edocket.access.gpo.gov/2009/E9-14928.htm</a>
State Labor Market Information Improvement	Grants will be awarded to state workforce agencies that will collect, analyze, and disseminate labor market information and develop labor exchange infrastructure to direct individuals to careers in green industries. <a href="http://edocket.access.gpo.gov/2009/E9-14930.htm">http://edocket.access.gpo.gov/2009/E9-14930.htm</a>
Green Capacity Building Grants	Grants will be awarded for projects that build the capacity of DOL-funded training programs. Only active DOL-funded grantees are eligible to apply. <a href="http://edocket.access.gpo.gov/2009/E9-14920.htm">http://edocket.access.gpo.gov/2009/E9-14920.htm</a>



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Community-Based Job Training Grants	The primary purpose of Community-Based Job Training Grants is to build the capacity of community colleges to train workers in the skills required to succeed in high growth, high demand industries. This competitive grant program builds on the High Growth Job Training Initiative, a national model for demand-driven workforce development implemented by strategic partnerships among the workforce investment system, employers, and community colleges: <a href="http://www.doleta.gov/Business/Community-BasedJobTrainingGrants.cfm">http://www.doleta.gov/Business/Community-BasedJobTrainingGrants.cfm</a>
WIRED Grants	WIRED goes beyond traditional strategies for worker preparation by bringing together state, local and federal entities; academic institutions (including K-12, community colleges and universities); investment groups; foundations; and business and industry to address the challenges associated with building a globally competitive and prepared workforce: <a href="http://www.doleta.gov/wired/">http://www.doleta.gov/wired/</a>
<b>Technical Resources</b>	
Industry and Labor Market Statistics	<a href="http://www.doleta.gov/programs/sources.cfm">www.doleta.gov/programs/sources.cfm</a>
Occupational competency models	Competency models (industry-verified knowledge, skills, and experience) for various sectors/skills by occupation: <a href="http://www.careeronestop.org/competencymodel/">http://www.careeronestop.org/competencymodel/</a>
Standard Occupational Classification (SOC) system codes	SOC is used by federal and state agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data: <a href="http://www.bls.gov/SOC/">http://www.bls.gov/SOC/</a>
Home Performance with ENERGY STAR	Home Performance with ENERGY STAR, a national program from the U.S. EPA and U.S. DOE, offers a comprehensive, whole-house approach to improving energy efficiency and comfort at home, while helping to protect the environment: <a href="http://www.energystar.gov/index.cfm?c=home_improvement.hm_improvement_hpwes">http://www.energystar.gov/index.cfm?c=home_improvement.hm_improvement_hpwes</a>
<b>The Green Jobs Act of 2007</b>	
See Title X	<a href="http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110_cong_bills&amp;docid=f:h6enr.txt.pdf">http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110_cong_bills&amp;docid=f:h6enr.txt.pdf</a>
<b>The American Recovery and Reinvestment Act of 2009</b>	
See Title VIII	<a href="http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&amp;docid=f:h1enr.pdf">http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&amp;docid=f:h1enr.pdf</a>
<b>White House Council on Environmental Quality</b>	
<i>Recovery Through Retrofit</i> (October 2009)	A report that builds on the foundation laid in the Recovery Act to expand green job opportunities and boost energy savings by making homes more energy efficient. <a href="http://www.whitehouse.gov/administration/eop/ceq/initiatives/retrofit">http://www.whitehouse.gov/administration/eop/ceq/initiatives/retrofit</a>



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**Examples of State Legislation**

<b>Colorado</b>	
Green Jobs Legislation (HB 1025)	<a href="http://www.leg.state.co.us/CLICS/CLICS2008A/csl.nsf/fsbillcont3/7DC A9D63A44957D08725737F00732CD3?Open&amp;file=1025_enr.pdf">http://www.leg.state.co.us/CLICS/CLICS2008A/csl.nsf/fsbillcont3/7DC A9D63A44957D08725737F00732CD3?Open&amp;file=1025_enr.pdf</a>
<b>Kentucky</b>	
Energy Technology Career Track Program (H.B. 2)	<a href="http://www.lrc.ky.gov/RECORD/08RS/HB2.htm">http://www.lrc.ky.gov/RECORD/08RS/HB2.htm</a>
<b>Maryland</b>	
Maryland Strategic Energy Investment Fund (H.B. 368)	<a href="http://mlis.state.md.us/2008rs/bills/hb/hb0368e.pdf">http://mlis.state.md.us/2008rs/bills/hb/hb0368e.pdf</a>
<b>Massachusetts</b>	
Green Jobs Act (H.B. 5018)	<a href="http://www.mass.gov/legis/bills/house/185/ht05pdf/ht05018.pdf">http://www.mass.gov/legis/bills/house/185/ht05pdf/ht05018.pdf</a>
<b>Michigan</b>	
Centers of Energy Excellence Program (S.B. 1380)	<a href="http://www.legislature.mi.gov/documents/2007-2008/publicact/pdf/2008-PA-0175.pdf">http://www.legislature.mi.gov/documents/2007-2008/publicact/pdf/2008-PA-0175.pdf</a>
<b>Minnesota</b>	
Green Jobs Task Force (S.F. 3096)	<a href="https://www.revisor.leg.state.mn.us/bin/bldbill.php?bill=S3096.3.html&amp;session=ls85">https://www.revisor.leg.state.mn.us/bin/bldbill.php?bill=S3096.3.html&amp;session=ls85</a>
<b>Ohio</b>	
Edison Technology Centers (S.B. 221)	<a href="http://www.legislature.state.oh.us/bills.cfm?ID=127_SB_221">http://www.legislature.state.oh.us/bills.cfm?ID=127_SB_221</a>
<b>Vermont</b>	
Green Job Legislation (H.B. 885)	<a href="http://www.leg.state.vt.us/docs/legdoc.cfm?URL=/docs/2008/acts/ACT182.HTM">http://www.leg.state.vt.us/docs/legdoc.cfm?URL=/docs/2008/acts/ACT182.HTM</a>
<b>Washington</b>	
Green Job Legislation (S.B. 6516)	<a href="http://apps.leg.wa.gov/billinfo/summary.aspx?bill=6516&amp;year=2007">http://apps.leg.wa.gov/billinfo/summary.aspx?bill=6516&amp;year=2007</a>

**Non-Governmental Resources**

<b>Technical Resources</b>	
<i>Inspector Guidelines for PV Systems</i> (March 2006)	Renewable Energy Technology Analysis Project of the Pace University Law School Energy Project: <a href="http://www.irecusa.org/fileadmin/user_upload/NationalOutreachPubs/InspectorGuidelines-Version2.1.pdf">http://www.irecusa.org/fileadmin/user_upload/NationalOutreachPubs/InspectorGuidelines-Version2.1.pdf</a>
Building Performance Institute (BPI)	Certifies building contractors: <a href="http://www.bpi.org">http://www.bpi.org</a>
Residential Energy Services Network (RESNET®)	Certifies building raters: <a href="http://www.natresnet.org">http://www.natresnet.org</a>



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North American Board of Certified Energy Practitioners (NABCEP)	Certifies renewable energy professionals: <a href="http://www.nabcep.org">http://www.nabcep.org</a>
<b>Education / Training Resources</b>	
Interstate Renewable Energy Council (IREC) <i>Renewable Energy Training Best Practices &amp; Recommended Guidelines</i> (September 2008)	<a href="http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Training-BestPractices_Sept_2008_FINAL.pdf">http://www.irecusa.org/fileadmin/user_upload/WorkforceDevelopmentDocs/Training-BestPractices_Sept_2008_FINAL.pdf</a>
Conference: <i>New Ideas in Educating a Workforce in Renewable Energy and Energy Efficiency</i> (November 2009 and March 2008)	More than 70 presentations on job forecasts and labor profiles, state and federal workforce initiatives, career pathways, training partnerships, model curriculum, standards, and new approaches to training in the rapidly growing green economy. <a href="http://irecusa.org/irec-programs/workforce-development/new-ideas-national-conference/2009-presentations/">http://irecusa.org/irec-programs/workforce-development/new-ideas-national-conference/2009-presentations/</a> 2008 sessions dealt with market trends, economic drivers, instructional strategies, curricula development, and best practices for training in the renewable energy and energy efficiency fields. Conference presentations: <a href="http://irecusa.org/irec-programs/workforce-development/new-ideas-national-conference/2008-presentations/">http://irecusa.org/irec-programs/workforce-development/new-ideas-national-conference/2008-presentations/</a>
<i>Going Green: The Vital Role of Community Colleges in Building a Sustainable Future and Green Workforce</i> (February 2009)	<a href="http://www.aed.org/News/Releases/going_green.cfm">http://www.aed.org/News/Releases/going_green.cfm</a>
American National Standards Institute (ANSI) / International Organization of Standardization (ISO)	Accredits training providers: <a href="https://www.ansica.org/wwwversion2/outside/PERgeneral.asp?menuID=2">https://www.ansica.org/wwwversion2/outside/PERgeneral.asp?menuID=2</a>
Institute for Sustainable Power Quality (ISPQ)	Accredits training providers: <a href="http://www.ispqusa.org">http://www.ispqusa.org</a>