Connecticut Green Jobs Report

October 2011

What is a green job? Public perception has evolved to recognize jobs at employers that create products and services like wind turbines, solar panels, waste management etc. as "green". We call them Green Employers. But, what about jobs at other employers (we call them Non-Green Employers) that influence the use of energy during the production and distribution process? Such a job could be an electrician who selects and buys equipment. Depending on the choice this equipment may be more or less energy efficient. For this report we examine data from large employers in Connecticut.

The Bureau of Labor Statistics (BLS) has developed two definitions for green jobs:

Green Employers (all jobs are considered "green")
Jobs in businesses that produce goods or provide services that benefit the environment or conserve natural resources.

Non-Green Employers (some jobs are considered "green")
Jobs in which workers' duties involve making their establishment's production processes more environmentally friendly or use fewer natural resources.

Green energy refers to energy from renewable sources and energy efficiency. According to the BLS, energy from renewable sources includes electricity, heat, or fuel generated from renewable sources like wind, biomass, geothermal, solar, ocean, hydropower, and landfill gas and municipal solid waste.

How can green jobs be counted? When employers want to hire new staff they express their need of skills in job postings which they publish on their website or job boards. For this report green energy skills (Table 3) are derived from the text of job postings. Their meaning has been aligned with definitions used by the BLS. Each skill mentioned in the report stands for a group that can cover a range of similar types. For example the skill "Gas Engine" includes skills about "Gas Turbines" and "Combustion Engine".

Table 1: Green Job Openings, Connecticut*

Sep 11	Aug 11	Jul 11	Jun 11	May 11
2,570	2,350	2,260	2,110	2,470

Currently, there are 2,570 green job openings (estimate, Green and Non-Green Employers) in Connecticut. This is 8.2% of online job openings in the state.

For this report job openings posted online for employment

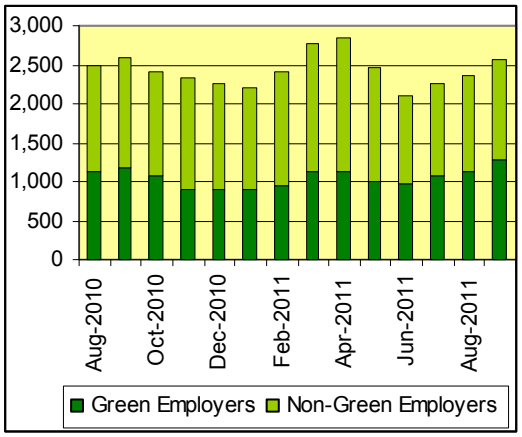
Table 2: Job Opening Estimates by Industry

	Sep 11
Total	2570
Construction	640
Manufacturing	630
Professional, Scientific, and Technical Services	420
Accommodation and Food Services	310
Retail Trade	200
Utilities	140
Wholesale Trade	140
Finance and Insurance	50
Health Care and Social Assistance	20
Mining, Quarrying, and Oil and Gas Extraction	10

Table 3: Job Opening Estimates by Green Energy Skills

	Sep 11
Gas Engine	710
Power Systems	360
Nuclear	260
HVAC	240
Oil & Gas	240
Heat Exchange	200
Energy Management	160
Thermal Analysis	120
Pumps	110
Boiler	90
Waste Management	60
Refrigeration	50
Water Treatment	20
Electric Power	20

Fig.1: Green Job Openings, CT*



* posted online

© 2011 SkillPROOF Inc.

opportunities dealing with renewable energy and energy efficiency are surveyed from large employers in Connecticut. This survey began August 2010 and is conducted by an automated process. From this survey an estimate for the state is generated.

Green job educational requirements by industry (Table 4) are derived from the text of job postings. Each group (Pre-College, 2-Yr, etc.) covers the range of educations that falls into the group, i.e. 2-Yr covers all Associate degrees.

Table 4: Green Job Educational Requirements by Industry

	Pre-Coll	2-Yr	4-Yr	Grad	PhD
Construction	320	320	N/A	N/A	N/A
Manufacturing	57	27	347	134	64
Professional, Scientific, and Technical Services	127	41	145	73	34
Accommodation and Food Services	N/A	165	145	N/A	N/A
Retail Trade	58	N/A	96	46	N/A
Utilities	13	24	82	15	6
Wholesale Trade	16	19	50	21	34
Finance and Insurance	6	3	27	15	N/A
Health Care and Social Assistance	9	N/A	4	4	4
Mining, Quarrying, and Oil and Gas Extraction	4	N/A	3	3	N/A

Table 5: Job Opening Estimates: Green Energy Skills Green Employers vs. Non-Green Employers

	Green Empl.	Non-Green Empl.
Gas Engine	N/A	710
Power Systems	100	260
Heat Exchange	10	190
HVAC	90	160
Energy Management	20	150
Oil & Gas	110	140
Nuclear	140	130
Thermal Analysis	N/A	120
Pumps	20	90
Refrigeration	N/A	50
Boiler	60	30
Waste Management	30	30
Water Treatment	N/A	20
Electric Power	N/A	20

Energy Saving Tip

Insulate your home when:
- You have an older home and haven't added insulation. Only 20% of homes built before 1980 are well insulated.
- You are uncomfortably cold in the winter or hot in the summer—adding insulation creates a more uniform temperature and increases comfort.
- You build a new home, addition, or install new siding or roofing.
- You pay high energy bills.
- You are bothered by noise from outside—insulation muffles sound.

Source: US Dept. of Energy

Connecticut Regional Green Job Coordinators

Ann Harrison
Workforce Alliance (South Central CT)
(203) 867-4030, ext. 267
aharrison.ctwbs@ct.gov

Tim Murney
Eastern CT Workforce Investment Board (Eastern CT)
(860) 235-7346
timmurney@comcast.net

Diana Napier
The Workplace, Inc. (Southwest CT)
(203) 610-8552
dnapier@workplace.org

Ray Sullivan
Northwest Regional Workforce Investment Board, Inc. (Northwest CT)
(203) 217-1100
raymond.sullivan@nrwib.org

Pamela Rendsland Tonello
Capital Workforce Partners
(North Central CT)
(860) 899-3495
ptonello@capitalworkforce.org

METHODOLOGY

Data Source

SkillPROOF surveys the inventories of job openings at direct employers. Job openings are counted and verified every 24 hours. All data sources have been verified for timely removal of filled or closed positions. No data from job boards or search firms is included. Jobs from small employers without web sites and automated careers section are not included.

For this report SkillPROOF estimates the counts of job openings. Estimates are calculated directly from SkillPROOF's actual daily counts of job openings. As part of its calculations, SkillPROOF uses data and findings from the Bureau of Labor Statistics (BLS) (http://www.bls.gov).

This workforce solution was funded by a grant awarded under the President's High Growth Job Training Initiative as implemented by the U.S. Department of Labor's Employment and Training Administration.The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

Program Contact:
Ms. Beth Auerbach
CT Department of Labor
Office for Workforce Competitiveness
200 Folly Brook Blvd.
Wethersfield, CT 06109
(860) 263-6518 (Phone)
(860) 263-6529 (Fax)

SkillPROOF™ The Future of Talent Management

This report was produced by
SkillPROOF Inc.
510 Barnum Ave, Suite 402 • Bridgeport, CT 06608
phone: (203) 275 - 8155
web: http://www.skillproof.com

© 2011 SkillPROOF Inc.