Connecticut

August 2011 Green Energy Jobs Report



Welcome to the first issue of the Connecticut Green Energy Jobs Report. Green energy refers to energy from renewable sources and energy efficiency as defined by the Bureau of Labor Statistics (BLS) in the context of employment surveys.

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

The BLS further defines energy efficiency as products and services that improve energy efficiency. Included in this group are energy-efficient equipment, appliances, buildings, and vehicles, as well as products and services that improve the energy efficiency of buildings and the efficiency of energy storage and distribution, such as Smart Grid technologies.

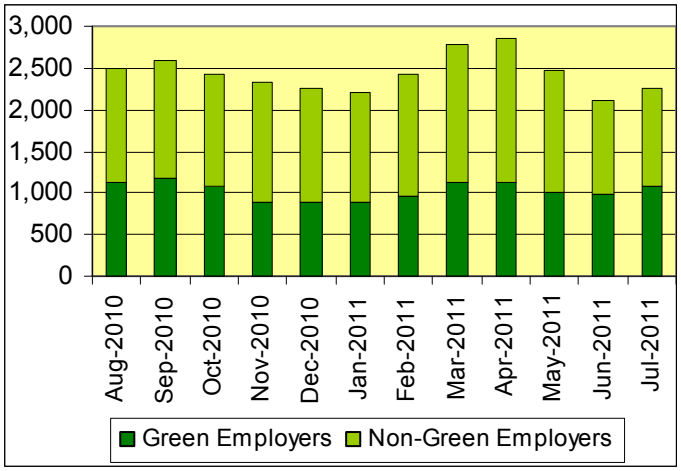
For this report job openings posted online for employment opportunities dealing with renewable energy and energy efficiency are surveyed with employers in Connecticut. This survey began August 2010 and is conducted by an automated process. From this survey an estimate for the state is generated.

Table 1: Green Job Openings, Connecticut*

Jul 11	Jun 11	May 11	Apr 11	Mar 11
2,270	2,120	2,470	2,850	2,780

Currently, there are 2,270 job openings (estimate) in Connecticut that require green energy skills. This is 7.4% or all online job openings in the state.

Fig.1: Green Job Openings, Connecticut*



Green skills are requested by green and non-green employers (review the methodology on page 2 for a definition).

Table 2: Job Opening Estimates by Industry

	Jul 11
Total	2270
Construction	560
Manufacturing	550
Professional, Scientific, and Technical Services	370
Accommodation and Food Services	270
Retail Trade	180
Utilities	130
Wholesale Trade	130
Finance and Insurance	40
Health Care and Social Assistance	20
Mining, Quarrying, and Oil and Gas Extraction	10

Table 3: Job Opening Estimates by Green Energy Skills

	Jul 11
Gas Engine	510
Power Systems	270
HVAC	240
Oil & Gas	220
Energy Management	180
Nuclear	170
Waste Management	80
Refrigeration	70
Thermal Analysis	70
Pumps	70
Heat Exchange	60
Boiler	40
Electric Power	40
Renewable Energy	20
Water Treatment	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

*) posted online

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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 4 Job Opening Estimates by Industry and Degree

	Pre-Coll	2-Yr	4-Yr	Grad	PhD
Construction	280	280	N/A	N/A	N/A
Manufacturing	50	24	303	117	56
Professional, Scientific, and Technical Services	112	36	128	65	30
Accommodation and Food Services	N/A	143	127	N/A	N/A
Retail Trade	52	N/A	87	41	N/A
Utilities	12	22	76	14	6
Wholesale Trade	15	18	47	20	31
Finance and Insurance	5	2	21	12	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	53
Power Systems	2	26
Energy Management	1	18
Oil & Gas	6	16
HVAC	10	14
Nuclear	4	13
Thermal Analysis	N/A	7
Waste Management	1	7
Pumps	1	6
Heat Exchange	N/A	6
Refrigeration	2	5
Electric Power	N/A	4
Boiler	1	3
Water Treatment	N/A	2
Renewable Energy	1	2

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METHODOLOGY

Definition of Green Jobs

The information in this report as it pertains to counts of Green Energy Jobs is based on the definition of green jobs by the Bureau of Labor Statistics (BLS). The BLS has developed this definition of green jobs for use in data collection in two planned surveys. Green jobs are either:

Green Employers (all jobs are considered "green")
Jobs in businesses that produce goods or provide services that benefit the environment or conserve natural resources. This definition will be used in the BLS survey of establishments in industries that produce green goods and services.

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. This definition will be used in the BLS survey of establishments across all industries to identify jobs related to green technologies and practices used within the establishment.

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.

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).

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