

New York State Energy Planning Board

Clean Energy Labor Market Intelligence For New York State

Findings From the NYSDOL Business Survey

Frank Surdey
Managing Economist, New York State Department of Labor

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Recent NYS Clean Energy Economy Studies

- Brookings-Battelle ‘Sizing the Clean Economy’ – 2011
 - Jobs that directly produce goods or services with environmental benefits
 - Includes 661 NAICS codes in 5 broad categories
 - Used industrial directories and web-based research
 - Identified 185,000 CE jobs in NYS
- USDOL BLS ‘Green Goods and Services’ Survey – 2012
 - Jobs that produce goods or provide services that benefit the environment or conserve natural resources
 - Includes 333 NAICS codes in 5 broad categories
 - 120,000 businesses in US surveyed (20% of overall economy)
 - Identified 248,500 green jobs in NYS (#2 in US)

State LMI Improvement Grant – \$1.1 Million

- Quantify/Qualify Jobs in NYS's Clean Energy Industry:
 - Focus on energy efficiency and renewable energy.
 - Identify emerging skills and training capacity.
 - Assess labor supply/demand and identify skill gaps.
 - Develop a green jobs portal for jobseekers, businesses and education/training organizations.

State LMI Improvement Grant – \$1.1 Million

- Partners:
 - New York State Department of Labor
 - SUNY System Office of Business and Industry Relations.
 - SUNY Albany College of Nanoscale Science and Engineering, Energy and Environmental Technology Applications Center (E2TAC).
 - Advanced Energy Center (AEC) at Stony Brook University.
 - NYC LMI Service at the CUNY Graduate Center.

Green Jobs Business Survey

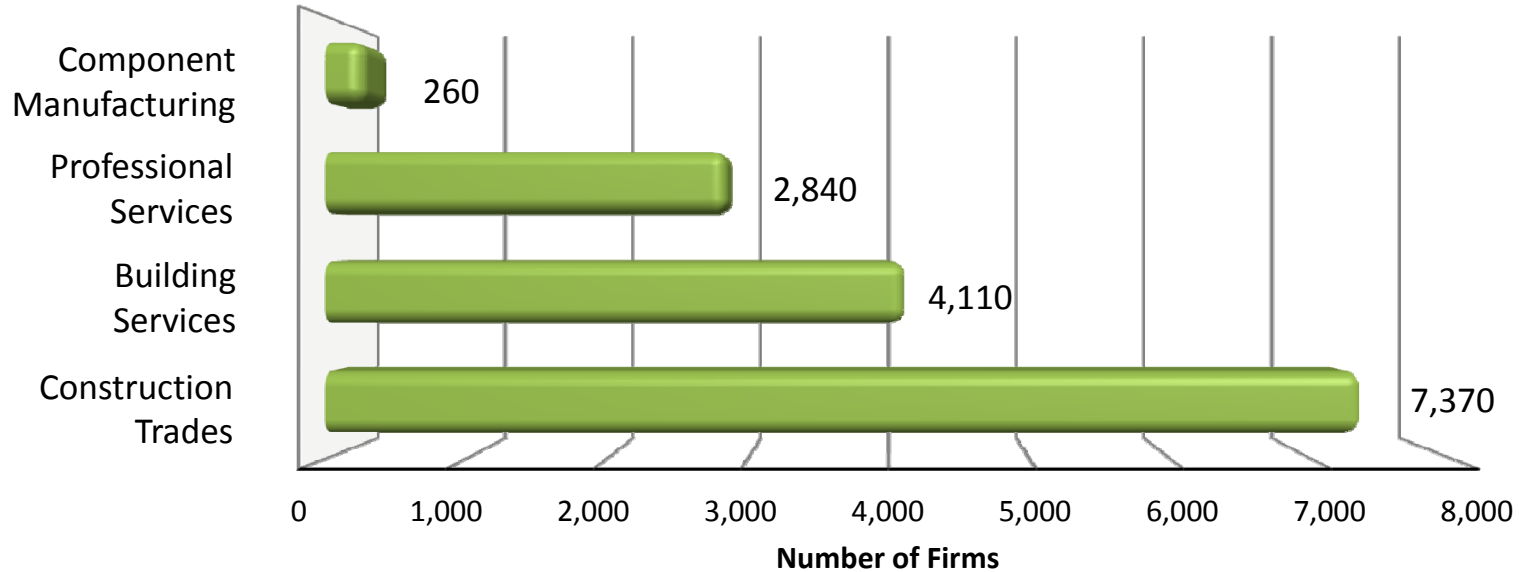
- Some 20,000 businesses were surveyed in 7 industry clusters.
 - On-line survey with paper option.
 - All businesses with 25 or more workers were surveyed and one-quarter of smaller firms
 - Approximately 70 NAICS in two categories (RE/EE)
 - Focus on 4 industry clusters :
 - Construction trades.
 - Component manufacturers.
 - Professional services (Ex-Legal Services).
 - Building services.

Definition of a 'Green' Job

- A job whose duties primarily involve producing goods or delivering services that increase **energy efficiency** or generate **renewable energy**.
- Examples:
 - Manufacturing components for wind turbines or solar panels;
 - Energy retrofitting existing homes;
 - Scientific research and development that promotes RE or EE;
 - HVAC and performance monitoring/optimization on residential buildings.

Number of Firms with Green Jobs

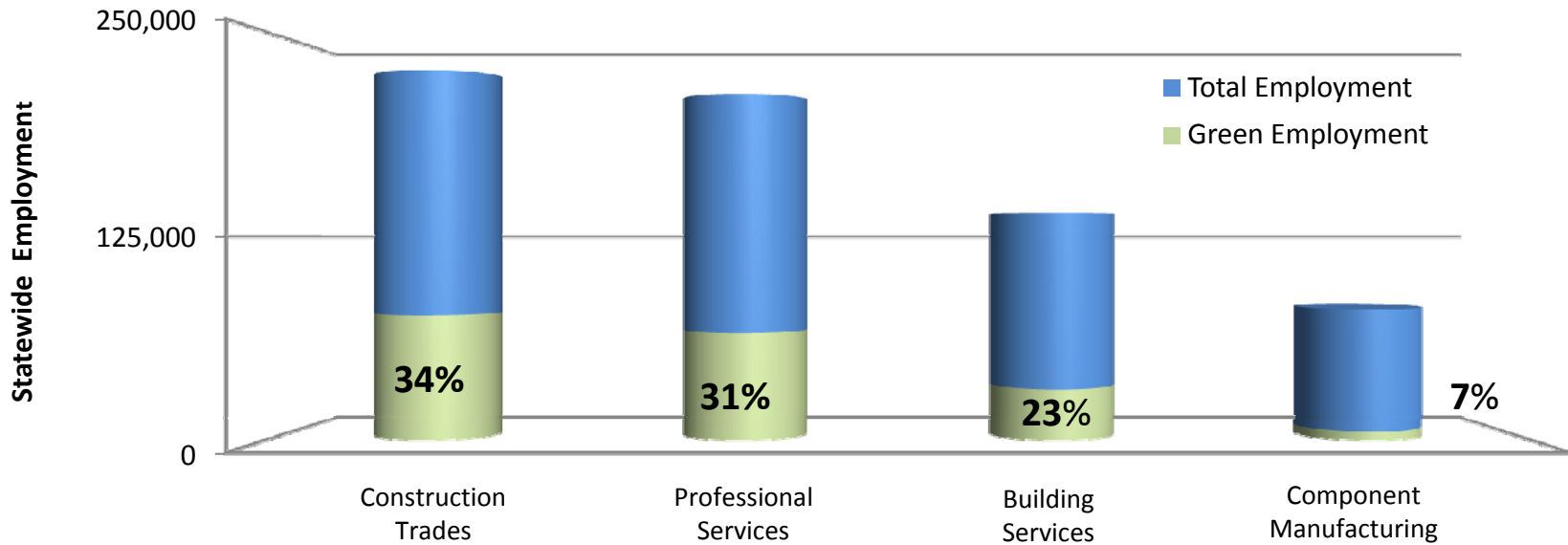
Estimated Number of Firms In New York State
with One or More Employees in a Green Job



Statewide	Component Manufacturing	Professional Services	Building Services	Construction Trades
Number with Green Jobs	260	2,840	4,110	7,370
Number in Cluster	1,660	10,300	25,540	26,980
Percent with Green Employees	15%	28%	16%	27%

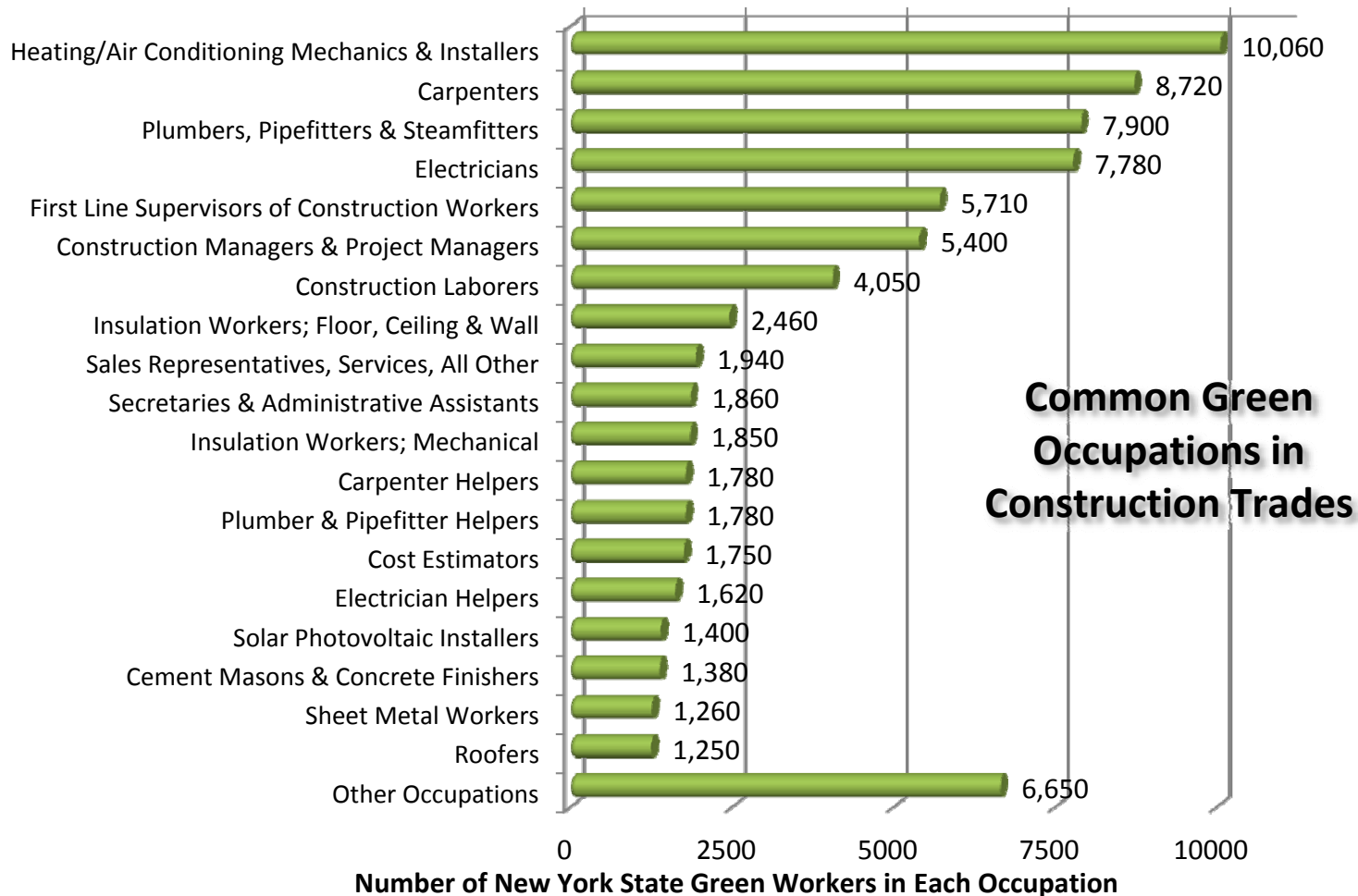
Number of Green Jobs in New York State

Number of Workers in Green Jobs



Statewide	Construction Trades	Professional Services	Building Services	Component Manufacturing
Green Employment	76,600	65,770	31,490	5,360
Cluster Employment	226,020	211,460	138,600	80,450

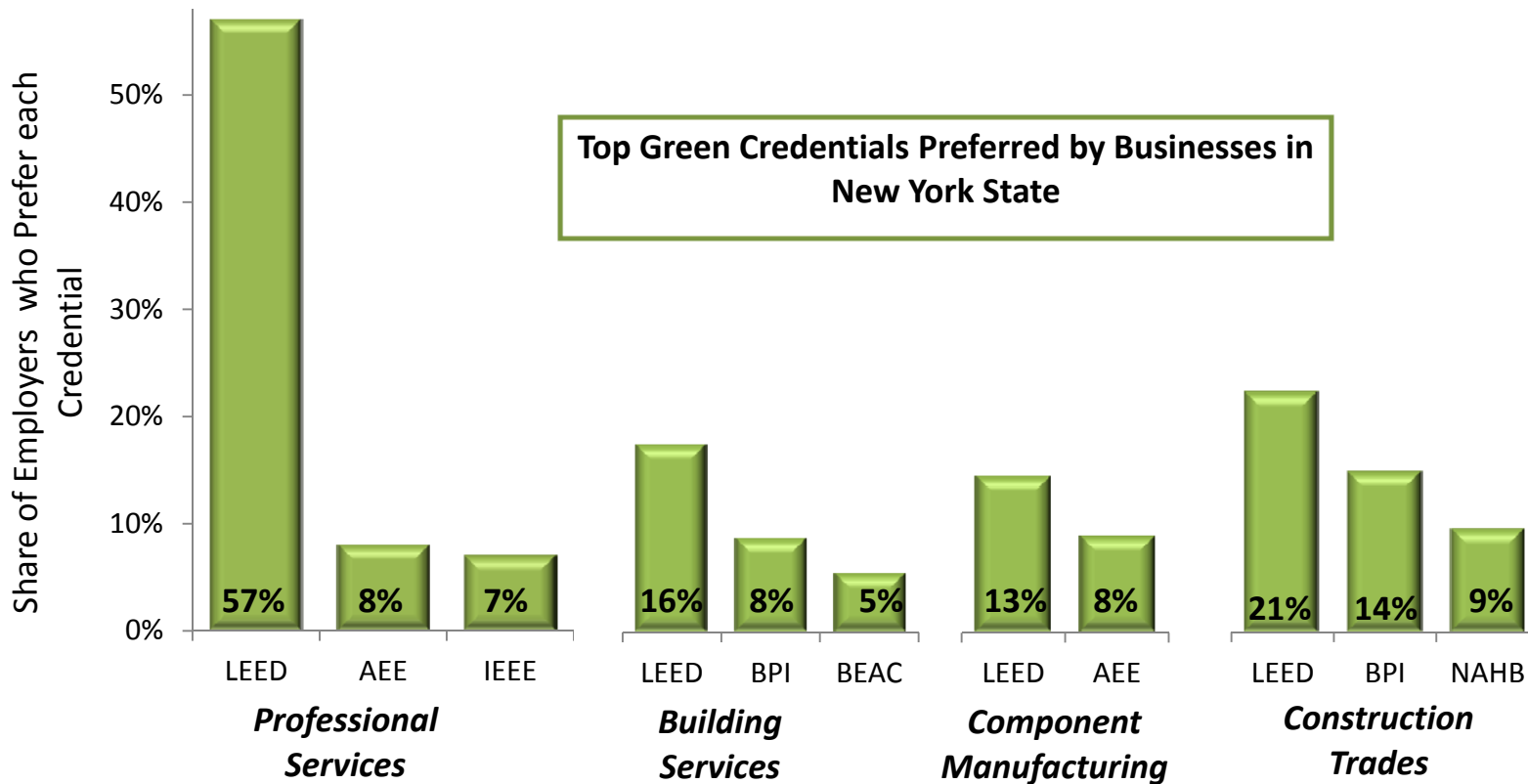
Common Green Occupations Construction Trades



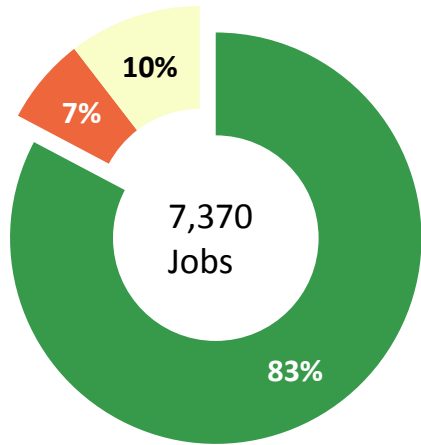
Short-Term (1 year) Green Job Projection

One Year Change	Building Services	Construction Trades	Component Manufacturing	Professional Services
For firms with green jobs, what is their expected change in green employment?				
Grow Larger	26%	30%	42%	38%
Unchanged	50%	42%	39%	45%
Become Smaller	1%	4%	3%	3%
Don't Know	23%	24%	16%	14%
Number of Firms	4,110	7,370	260	2,840
For firms without green jobs, do they expect to have green employment?				
Yes	4%	7%	3%	4%
No	71%	57%	70%	74%
Don't Know	25%	36%	27%	22%
Number of Firms	21,430	19,600	1,400	7,460

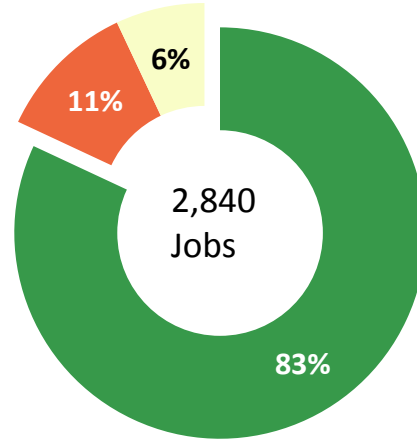
Green Credentials Preferred by Business



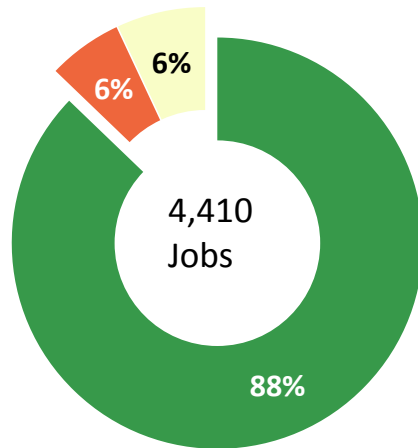
Recruitment Challenges for Green Jobs



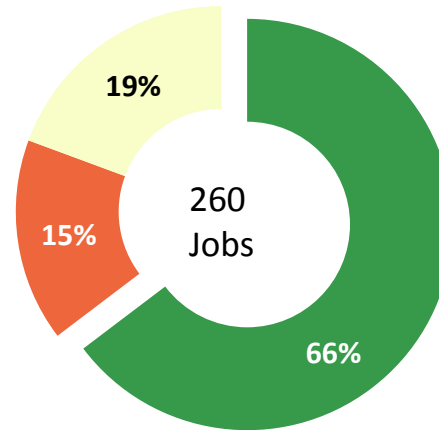
Construction Trades



Professional Services



Building Services



Component Manufacturing

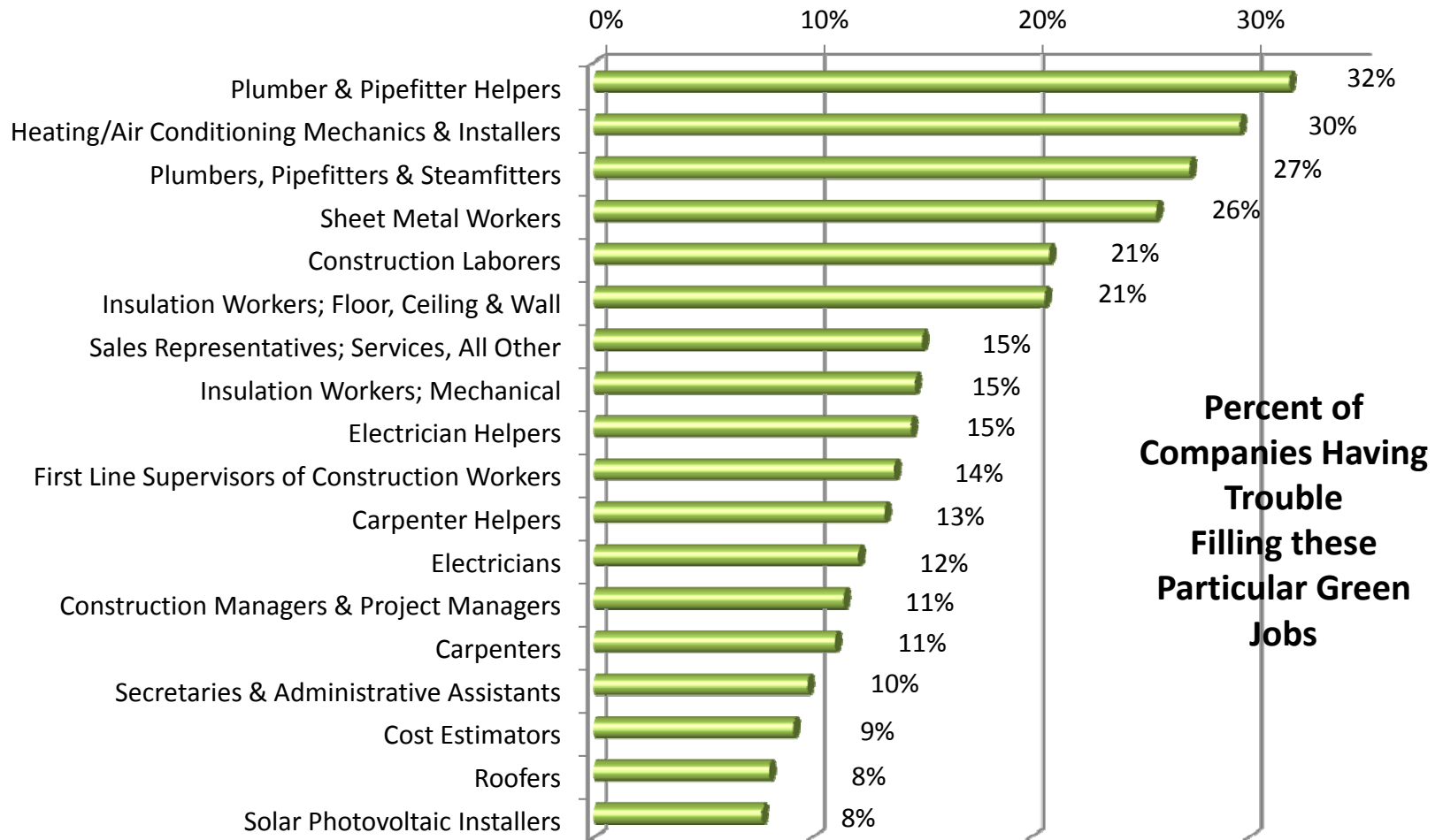
Difficulty Recruiting For Multiple Green Occupations

No Difficulty Recruiting

Difficulty Recruiting For One Green Occupation

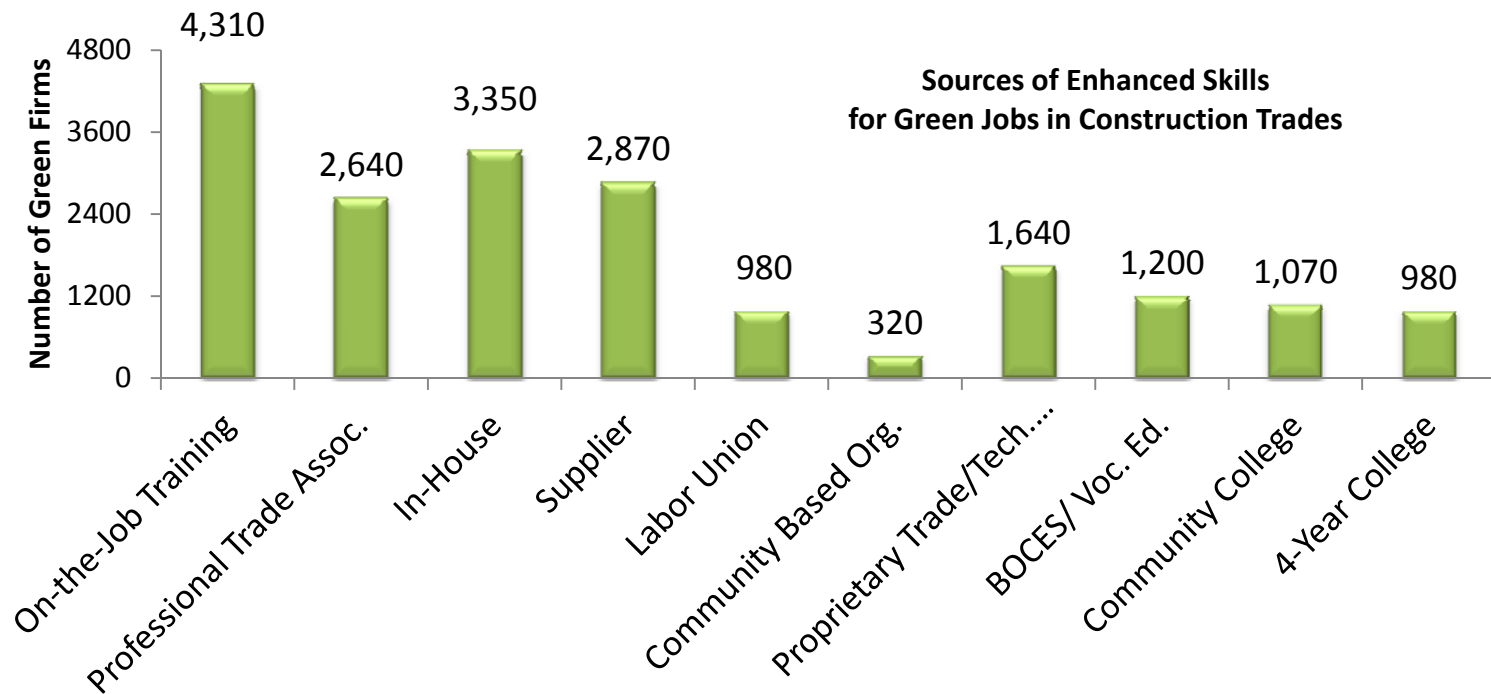
Green Occupations in High Demand Construction Trades

Currently in High Demand in Construction Trades



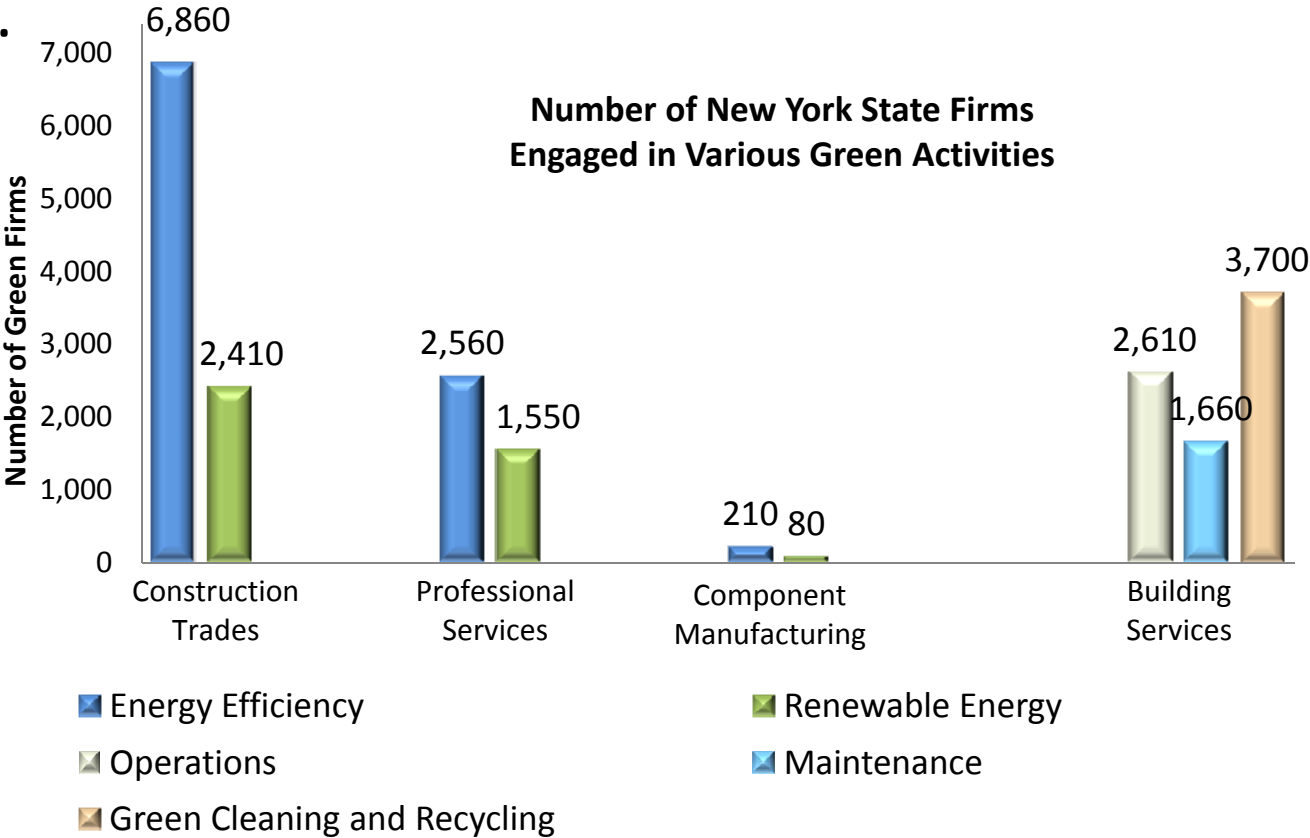
Source of Enhanced Green Skill Training Construction Trades

Approximately 77% (5,660) of green businesses in Construction Trades require employees to have enhanced skills in order to produce green products or services.



Business Engagement in Green Activities

- Many firms are engaged in more than one green activity.



www.greencareersny.com

- State and Regional Findings from the Green Job Study
- Green Business Directory by Region, Industry , Category
- Green Job Boards and Career Exploration Tools
- Training Programs and Eligible Training Providers
- Homeowner Information